



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0815

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: GE Healthcare

Manufacturer's Technical Representative: Tom Farnow

Mailing Address: 3000 N. Grandview Blvd., Waukesha, WI 53188

Telephone: (888) 406-1101

Email: Tom.Farnow@gehcseismic.com

Product Information

Product Name: POWERCOM Vanguard II VGS-2000 2 kVA UPS

Product Model Number(s): GE Catalog No. E4502KV

Product Category: UPS and Batteries

Product Sub-Category: NA

General Description: 2 kVA UPS, 120V, 50/60 Hz, mounted in tower configuration with GE Healthcare MyoSPECT Seismic UPS collector (5931770).

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: EASE LLC

Contact Person: Jonathan Roberson

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

Telephone: (909) 606-7622

Email: jon@EASECo.com

Title: Principal Structural Engineer





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

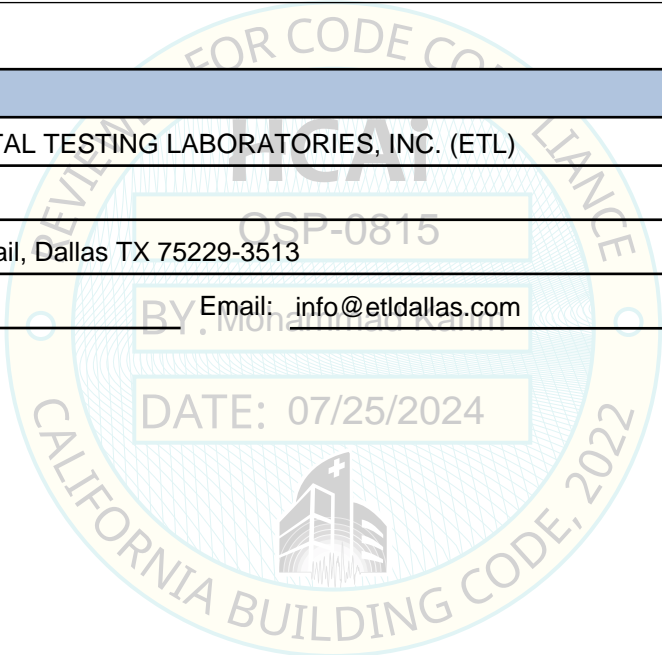
Company Name: EASE LLC
Name: Jonathan Roberson California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709
Telephone: (951) 295-1892 Email: jon@EASECo.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
 Other (Please Specify): _____

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Brady Richard
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: info@etldallas.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.44 (SDS=2.0 @ z/h=1); 1.13 (SDS=2.5 @ z/h=0)

SDS (Design spectral response acceleration at short period, g) = 2.0 (z/h=1); 2.5 (z/h=0)

a_p (Amplification factor) = 1

R_p (Response modification factor) = 2.5

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

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

Natural frequencies (Hz) = Front: >50 / Side: 32.6 / Vertical: 40.3

Overall dimensions and weight = 8.86" W x 16.54" D x 14.10" H; 66 lb. (UPS only) | 79.5 lb. (UPS w/ GEHC Mount)

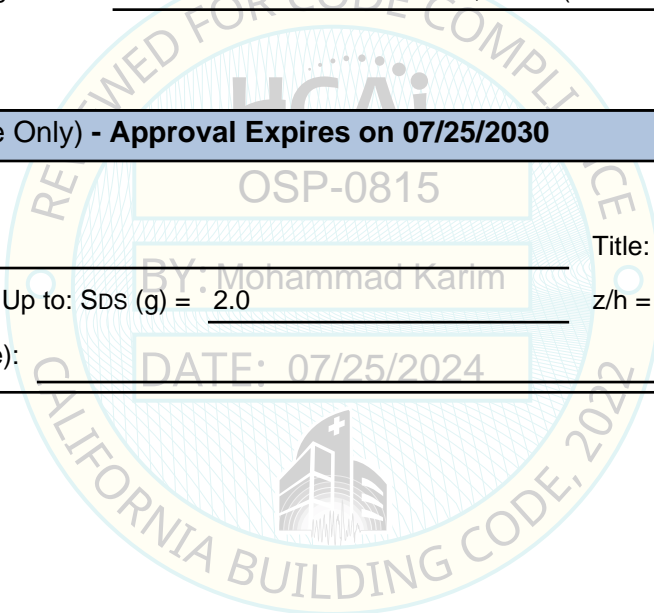
HCAI Approval (For Office Use Only) - Approval Expires on 07/25/2030

Date: 7/25/2024

Name: Mohammad Karim Title: Supervisor, Health Facilities


Special Seismic Certification Valid Up to: SDS (g) = 2.0 z/h = 1

Condition of Approval (if applicable): DATE: 07/25/2024



ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT -1 POWERCOM Vanguard II VGS-2000 2 kVA UPS						
<i>Manufacturer:</i> POWERCOM						
<i>Identification:</i> Model No.: VGS-2000 Serial No.: 10000172405 GEHC Catalog No. E4502KV						
<i>Description:</i> Single Phase 2KVA UPS Input: AC 120V; 50/60HZ 16A max Output: AC 120V; 50/60HZ 20A max 2000VA / 1800W GEHC Seismic mounting kit 5931770 "MyoSPECT Seismic UPS Collector" * Values below in parentheses are UPS w/o GEHC mounting hardware.						
<i>Mounting:</i> Rigid Base (Floor) mounted using: (4) – 3/8" dia. SAE J429 Grade 5 bolts through GE Healthcare seismic mounting kit 5931770						
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vertical-Axis
12.91 (8.86)*	17.63 (16.54)*	14.29 (14.10)*	79.5 (66.0)*	32.6	> 50	40.3
ICC-ES AC156 Shake Table Test Parameters						Code: 2022 CBC
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						