



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

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

OFFICE USE ONLY

APPLICATION #: OSP-0206

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: ABB, Inc.

Manufacturer's Technical Representative: Christopher Belcastro

Mailing Address: 5900 Eastport Blvd., Bldg. V, Richmond, VA 23231

Telephone: (804) 236-4064

Email: christopher.belcastro@us.abb.com

Product Information

Product Name: UPS and Batteries

Product Type: UPS

Product Model Number: SG-Series 20kVA UPS (Model S1875PK)

General Description: The SG Series UPS are a three-phase uninterruptible power supply systems, intended to provide critical power protection. A single, unique configuration is addressed in this approval.

Mounting Description: Rigid, Floor Mounted

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: EASE LLC

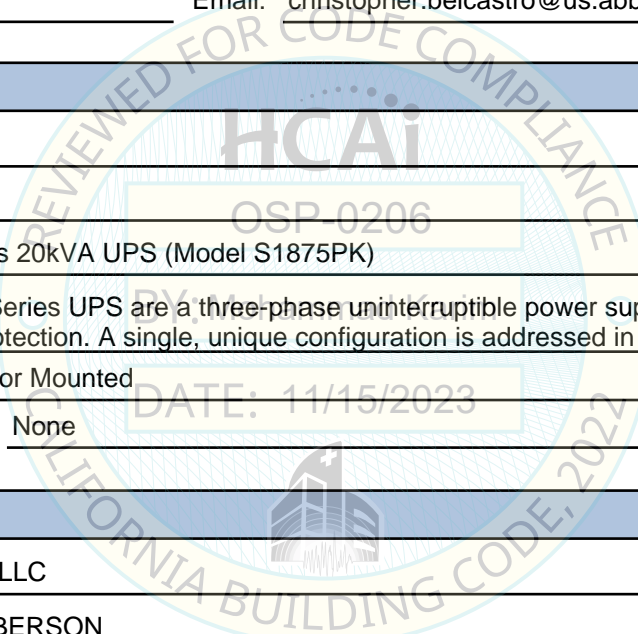
Contact Person: JONATHAN ROBERSON

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

Telephone: (406) 541-3273

Email: j.roberson@easeco.com

Title: Principal Engineer





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

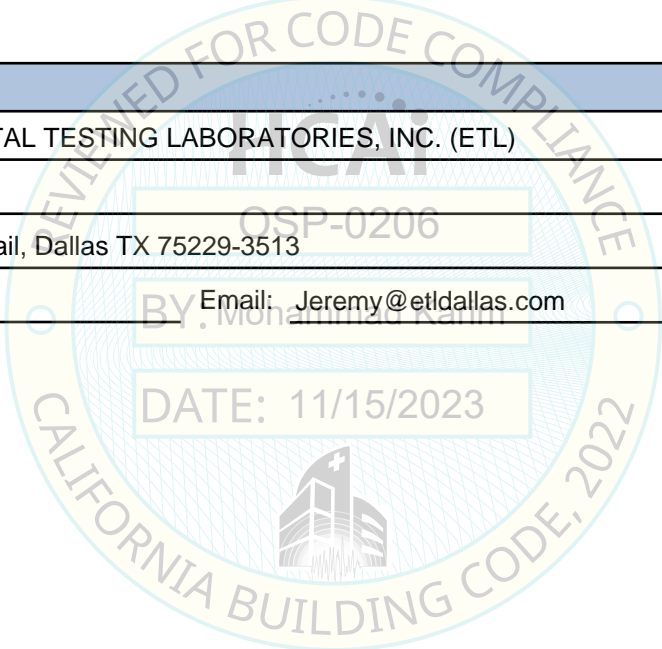
Company Name: EASE LLC
Name: Jonathan Roberson California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709
Telephone: (951) 295-1892 Email: jon@EASECo.com

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: Jeremy Lange
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: Jeremy@etldallas.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.39

SDS (Design spectral response acceleration at short period, g) = 1.93

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

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = 27"W x 32"D x 71"H; 1096 lb.

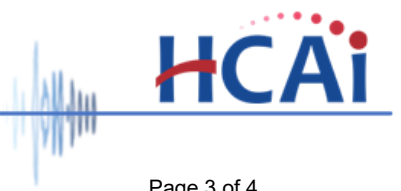
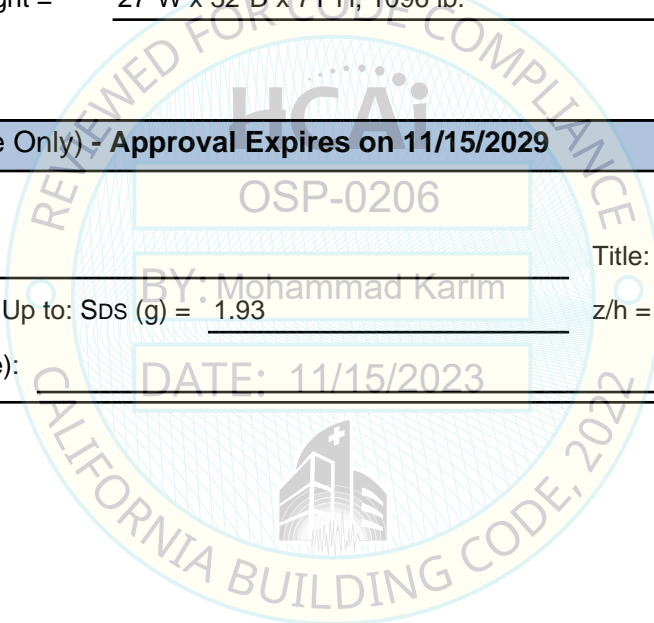
HCAI Approval (For Office Use Only) - Approval Expires on 11/15/2029

Date: 11/15/2023

Name: Mohammad Karim Title: Supervisor, Health Facilities


Special Seismic Certification Valid Up to: SDS (g) = 1.93 z/h = 1


Condition of Approval (if applicable): DATE: 11/15/2023



ATTACHMENT 2: TEST UNIT SUMMARY

ATTACHMENT PAGE | 1 OF 1

UUT-1 SG 20 kVA UPS w/ Internal Batteries						
Manufacturer:		GE Consumer & Industrial SA (Now ABB Industrial Solutions SA)				
Identification:		Model: SG Series 0 20 kVA Part No.: UPSB02SG444AY50-OSHDP Serial No.: P0020-1511-B2420				
Description:		Painted, carbon steel cabinet construction. 480V; 3-phase; 60 Hz				
Mounting:		Rigid Base (Floor) mounted using (4) – ½” hex head bolts w/ doubled washers through GE Seismic Bracket Kit to Aluminum Plate.				
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
27	32	71	1,160	5.8	7.6	18.8
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)
1.93	1.0	1.5	3.09	2.32	1.29	0.52
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-2 SG 100 kVA UPS						
Manufacturer:		GE Consumer & Industrial SA (Now ABB Industrial Solutions SA)				
Identification:		Model: SG Series 0 100 kVA / 80KW Part No.: UPS010SG444AN50-OSHDP Serial No.: P0150-4710-B133P				
Description:		Painted, carbon steel cabinet construction. 480V; 3-phase; 60 Hz				
Mounting:		Rigid Base (Floor) mounted using (4) – ½” hex head bolts w/ doubled washers through GE Seismic Bracket Kit to Aluminum Plate				
Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
47	32	71	1,993	9.3	7.7	>50
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)
1.93	1.0	1.5	3.09	2.32	1.29	0.52
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						