

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

| APPLICATION FOR HCAI SPECIAL SEISMIC   | OFFICE USE ONLY  |
|--|--|
| CERTIFICATION PREAPPROVAL (OSP)  | APPLICATION #: OSP-0206  |
| HCAI Special Seismic Certification Preapproval (OSP)   |  |
| Type: New X 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.b   | pelcastro@us.abb.com   |
| FORCODEC   | 0  |
| Product Information  | Mp,  |
| Product Name: UPS and Batteries  |  |
| Product Type: UPS  | Z  |
| Product Model Number: SG-Series 20kVA UPS (Model S1875PK)  | m l  |
| General Description: The SG Series UPS are a three-phase uninterpower protection. A single, unique configuration | uptible power supply systems, intended to provide critical<br>is addressed in this approval. |
| Mounting Description: Rigid, Floor Mounted   | 22   |
| Tested Seismic Enhancements: None DATE: 10720  |  |
|  |  |
| Applicant Information  |  |
| Applicant Company Name: EASE LLC   | COT  |
| Contact Person: JONATHAN ROBERSON  |  |
| Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA 91709   |  |
| Telephone: (406) 541-3273 Email: j.roberson@e  | 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 X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3  |
| Other (Please Specify):   |
| FOR CODE CO   |
| 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@etIdallas.com   |
|   |
| C DATE: 11/15/2023  |
| DATE: 11/15/2023  |
| Contraction of the second s |
|   |
| BUILDINGC   |



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| Seismic Parameters   |                                    |        |                               |
|--|------------------------------------|--------|-------------------------------|
| Design Basis of Equipment or Components                      | (Fp/Wp) = 1.39                     |        |                               |
| SDS (Design spectral response accel                          | eration at short period, g) = 1.93 |        |                               |
| ap (Amplification factor) =                                  | 1                                  |        |                               |
| Rp (Response modification factor) =                          | 2.5                                |        |                               |
| $\Omega_0$ (System overstrength factor) =                    | 2.0                                |        |                               |
| lp (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. |                                    |        |                               |
|  | ED FOIL                            |        |                               |
|  |                                    |        |                               |
| HCAI Approval (For Office Use Only) -                        | Approval Expires on 11/15/202      | 9 2    |                               |
| Date: 11/15/2023   | USP-0200                           | Title: |                               |
| Name: Mohammad Karim   |                                    |        | Supervisor, Health Facilities |
| Special Seismic Certification Valid Up to: SDS (g) = 1.93    |                                    |        | 1                             |
| Condition of Approval (if applicable):                       | DATE: 11/15/2023                   |        |                               |
| F  |                                    | JSV/   |                               |
|  | PRNIA BLILLDING COT                |        |                               |
|  | P                                  |        |                               |
|  | BUILDING                           |        |                               |



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# EASE & SEISMIC ENGINEERING

#### ATTACHMENT 2: TEST UNIT SUMMARY

ATTACHMENT PAGE | 1 OF 1

ABB, Inc.

| UUT-1   | SG 20 kVA UP  | S w/ Internal B  | Batteries  |                        |                                  |                               |
|---|---|--|--|------------------------|----------------------------------|-------------------------------|
| Manufacturer:   | GE Consumer & Indu<br>(Now ABB Industrial   |  |  |                        | 1                                |                               |
| Identification:   |   | es 0 20 kVA<br>2SG444AY50-OSHPI<br>511-B2420   | )  |                        |                                  |                               |
| Description:  | Painted, carbon stee<br>480V; 3-phase; 60 H   | l cabinet construction<br>z  | ۱.   |                        |                                  |                               |
| Mounting:   |   | ounted using (4) – ½<br>bugh GE Seismic Bra  | " hex head bolts w/<br>acket Kit to Aluminum   |                        | 1                                |                               |
|   | Dimensions (in.)  | E  |  | Lowes                  | t Resonant Frequer               | ncy (Hz.)                     |
| Width   | Depth   | Height   | Weight (lb.)   | Side-Axis              | Front-Axis                       | Vert-Axis                     |
| 27  | 32  | 71   | 1,160  | 5.8                    | 7.6                              | 18.8                          |
| CC-ES AC156 SI  | hake Table Test Param   | eters  | DSP-0206   | - C                    |                                  | Code: 2022 CB                 |
| 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)        |
| 1.93  | 1.0   | 1.5/ · M   |  | 2.32                   | 1.29                             | 0.52                          |
|   | 56 requirements for struc   |  | anufacturer requiremen   |                        | r AC156 test.                    |                               |
|   |   | PS DATE  |  |                        | 1                                |                               |
| UUT–2   | SG 100 kVA U<br>GE Consumer & Indu<br>(Now ABB Industrial   | PS DATE<br>Istrial SA<br>Solutions SA)<br>es 0 100 kVA / 80KW<br>GG444AN50-OSHPD   | 11/15/202  |                        | r AC156 test.                    |                               |
| UUT–2<br>Manufacturer:  | SG 100 kVA U<br>GE Consumer & Indi<br>(Now ABB Industrial<br>Model: SG Serie<br>Part No.: UPS0105<br>Serial No.: P0150-47   | PS DATE<br>solutions SA)<br>es 0 100 kVA / 80KW<br>G444AN50-OSHPD<br>'10-B133P   | : 11/15/2023   |                        |                                  |                               |
| UUT–2<br>Manufacturer:<br>Identification:   | SG 100 kVA U<br>GE Consumer & Indu<br>(Now ABB Industrial<br>Model: SG Serii<br>Part No.: UPS0105<br>Serial No.: P0150-47<br>Painted, carbon stee<br>480V; 3-phase; 60 H<br>Rigid Base (Floor) m  | PS DATE<br>ustrial SA<br>Solutions SA)<br>es 0 100 kVA / 80KW<br>SG444AN50-OSHPD<br>'10-B133P<br>I cabinet construction<br>z   | : 11/15/2023<br>UILDING  |                        |                                  |                               |
| UUT–2<br>Manufacturer:<br>Identification:<br>Description:                             | SG 100 kVA U<br>GE Consumer & Inde<br>(Now ABB Industrial<br>Model: SG Serie<br>Part No.: UPS0105<br>Serial No.: P0150-47<br>Painted, carbon stee<br>480V; 3-phase; 60 H<br>Rigid Base (Floor) m<br>doubled washers three   | PS DATE<br>ustrial SA<br>Solutions SA)<br>es 0 100 kVA / 80KW<br>SG444AN50-OSHPD<br>'10-B133P<br>I cabinet construction<br>z   | 11/15/202 UILDING n. " hex head bolts w/   |                        |                                  |                               |
| UUT–2<br>Manufacturer:<br>Identification:<br>Description:                             | SG 100 kVA U<br>GE Consumer & Inde<br>(Now ABB Industrial<br>Model: SG Serie<br>Part No.: UPS0105<br>Serial No.: P0150-47<br>Painted, carbon stee<br>480V; 3-phase; 60 H<br>Rigid Base (Floor) m<br>doubled washers thre<br>Plate<br>Dimensions (in.)   | PS DATE<br>ustrial SA<br>Solutions SA)<br>es 0 100 kVA / 80KW<br>SG444AN50-OSHPD<br>10-B133P<br>I cabinet construction<br>z<br>ounted using (4) – ½<br>bugh GE Seismic Bra                   | 11/15/202 1. The the test of |                        |                                  |                               |
| UUT-2<br>Manufacturer:<br>Identification:<br>Description:<br>Mounting:                | SG 100 kVA U<br>GE Consumer & Inde<br>(Now ABB Industrial<br>Model: SG Serie<br>Part No.: UPS0105<br>Serial No.: P0150-47<br>Painted, carbon stee<br>480V; 3-phase; 60 H<br>Rigid Base (Floor) m<br>doubled washers thre<br>Plate   | PS DATE<br>ustrial SA<br>Solutions SA)<br>es 0 100 kVA / 80KW<br>SG444AN50-OSHPD<br>'10-B133P<br>I cabinet construction<br>z   | 11/15/202 UILDING n. " hex head bolts w/   | CODE                   | t Resonant Frequer               | hcy (Hz.)                     |
| UUT-2<br>Manufacturer:<br>Identification:<br>Description:<br>Mounting:<br>Width<br>47 | SG 100 kVA U<br>GE Consumer & Inde<br>(Now ABB Industrial<br>Model: SG Serie<br>Part No.: UPS0105<br>Serial No.: P0150-47<br>Painted, carbon stee<br>480V; 3-phase; 60 H<br>Rigid Base (Floor) m<br>doubled washers thre<br>Plate<br>Dimensions (in.)   | PS DATE<br>ustrial SA<br>Solutions SA)<br>es 0 100 kVA / 80KW<br>SG444AN50-OSHPD<br>10-B133P<br>I cabinet construction<br>z<br>ounted using (4) – ½<br>bugh GE Seismic Brack<br>Height<br>71 | " hex head bolts w/<br>acket Kit to Aluminum<br>Weight (lb.)   | Lowes<br>Side-Axis     | t Resonant Frequer<br>Front-Axis | ncy (Hz.)<br>Vert-Axis        |
| UUT-2<br>Manufacturer:<br>Identification:<br>Description:<br>Mounting:<br>Width<br>47 | SG 100 kVA U         GE Consumer & Indit<br>(Now ABB Industrial         Model:       SG Serial         Part No.:       UPS0105         Serial No.:       P0150-47         Painted, carbon stee       480V; 3-phase; 60 H         Rigid Base (Floor) m       doubled washers three         Plate       Dimensions (in.)         Depth       32 | PS DATE<br>ustrial SA<br>Solutions SA)<br>es 0 100 kVA / 80KW<br>SG444AN50-OSHPD<br>10-B133P<br>I cabinet construction<br>z<br>ounted using (4) – ½<br>bugh GE Seismic Brack<br>Height<br>71 | " hex head bolts w/<br>acket Kit to Aluminum<br>Weight (lb.)   | Lowes<br>Side-Axis     | t Resonant Frequer<br>Front-Axis | Acy (Hz.)<br>Vert-Axis<br>>50 |