APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0578

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: ABB Industrial Solutions (Switzerland) SA

Manufacturer's Technical Representative: John Goosseff

Mailing Address: 5900 Eastport Blvd, Richmond, VA 23231

Telephone: (800) 637-1738 Email: john.goosseff@us.abb.com

Product Information

Product Name: TLE Scalable UPS

Product Model Number(s): See Attachment 1

Product Category: UPS and Batteries

Product Sub-Category: UPS

General Description: 3-Phase 480Vac UPS System with double conversion.

Mounting Description: Rigid base mount.

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 Co.

Contact Person: Jonathan Roberson

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

Telephone: (909) 606-7622 Email: j.roberson@easeco.com

Title: Principal Structural Engineer

REVIEWED FOR CODE COMPLIANCE
HCAi
OSP-0578
BY: Mohammad Karim
CALIFORNIA BUILDING CODE, 2022

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

REVIEWED FOR CODE COMPLIANCE
HCAi
OSP-0578
BY: Mohammad Karim
DATE: 06/23/2026
CALIFORNIA BUILDING CODE, 2025

Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal	(A Flx-H), g=	3.2	(A Rig-H), g=	2.15
Vertical	(A Flx-V), g=	1.68	(A Rig-V), g=	0.68

S_{DS} (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1); 2.50 (z/h = 0)

Hf (Force amplification height factor) = 1 @ z/h = 0; 3.5 @z/h = 1

Ru (Structure ductility redution factor) = 1 @ z/h = 0; 1.3 @z/h = 1

I_p (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 06/23/2032

Date: 6/23/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable):

REVIEWED FOR CODE COMPLIANCE
HCAi
OSP-0578
BY: Mohammad Karim
DATE: 06/23/2026
CALIFORNIA BUILDING CODE, 2025

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1: SEISMIC CERTIFIED COMPONENTS

BUILDING CODE: 2025 CBC

Manufacturer	**ABB Industrial Solutions (Switzerland) SA**	**Seismic Parameters**	
Product Line	**TLE Scalable UPS**	S_{DS} = 2.0 at z/h = 1	R_μ = 1.3; H_f = 3.5
Product Type	**Uninterruptible Power Supply**	S_{DS} = 2.5 at z/h = 0	R_μ = 1.0; H_f = 1.0

COMPONENT	ABB PART NO. [5]	DIMENSIONS (IN.) W	D	H	MAX. WT. (LB.) [4]	MOUNTING	BASIS [1]
TLE Scalable UL 40 kVA	4NWP105714R0002	23.62	34.06	64.17	655	Rigid Base	INT
TLE Scalable UL 40 kVA with THF		23.62	34.06	75.00	677	Rigid Base	SAME as UUT-1
TLE Scalable UL 40 kVA with THF & TCE		27.56	34.06	75.00	765	Rigid Base	INT
TLE Scalable UL 50 kVA	4NWP105714R0001	23.62	34.06	64.17	655	Rigid Base	INT
TLE Scalable UL 50 kVA with THF		**23.62**	**34.06**	**75.00**	**677**	**Rigid Base**	**UUT-1**
TLE Scalable UL 50 kVA with THF & TCE		27.56	34.06	75.00	765	Rigid Base	INT
TLE Scalable UL 80 kVA	4NWP105716R0002	23.62	34.06	64.17	792	Rigid Base	INT
TLE Scalable UL 80 kVA with THF		23.62	34.06	75.00	814	Rigid Base	INT
TLE Scalable UL 80 kVA with THF & TCE		27.56	34.06	75.00	902	Rigid Base	INT
TLE Scalable UL 100 kVA	4NWP105716R0001	23.62	34.06	64.17	792	Rigid Base	INT
TLE Scalable UL 100 kVA with THF		23.62	34.06	75.00	814	Rigid Base	INT
TLE Scalable UL 100 kVA with THF & TCE		27.56	34.06	75.00	902	Rigid Base	INT
TLE Scalable UL 120 kVA	4NWP105718R0002	23.62	34.06	64.17	914	Rigid Base	INT
TLE Scalable UL 120 kVA with THF		23.62	34.06	75.00	936	Rigid Base	INT
TLE Scalable UL 120 kVA with THF & TCE		27.56	34.06	75.00	1024	Rigid Base	SAME as UUT-2
TLE Scalable UL 150 kVA	4NWP105718R0001	23.62	34.06	64.17	914	Rigid Base	INT
TLE Scalable UL 150 kVA with THF		23.62	34.06	75.00	936	Rigid Base	INT
TLE Scalable UL 150 kVA with THF & TCE		**27.56**	**34.06**	**75.00**	**1024**	**Rigid Base**	**UUT-2**

Mount	RIGID BASE (FLOOR) MOUNT: free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.
Notes	1. BASIS: • UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program. • SAME: Product is identical to a model tested, except for possible variations in color, software or identification number. • INT (Interpolated or extrapolated): Configuration not specifically tested, which seismic qualification is established based on similarity to a test unit. 2. THF = Top Hat Fascia. Steel sheet metal plates attached to top of cabinet on front, left and right sides to increase cabinet height. 3. TCE = Top Cable Entry. Steel enclosure mounted to side of UPS to rout conductors feeding from above to the standard entry point below. 4. Tabulated weights are installed weights. For models with TCE option, weight excludes conductors passing through TCE. 5. Require installation of ABB seismic kit (Part No. 7000195095A) 6. Bolt pattern footprint is identical for all models.

REVIEWED FOR CODE COMPLIANCE
HCAI
OSP-0578
BY: Mohammad Karim
DATE: 06/23/2026
CALIFORNIA BUILDING CODE 2025

UUT- 1 TLE Scalable UPS 50kVA UPS with THF

Manufacturer: GE Consumer & Industrial SA

Identification:
As Labeled: UB1005TL444AA00
As Configured: UB1005TL444AA00-OSHPD-THF * (Legacy GE P/N)
4NWP105714R0001 + seismic kit 7000195095A (Current ABB P/N)

Description: 50 kVA – 480V UPS

Installed Options:
Includes top hat fascia (THF)
Single power module installed.

* NOTE: "As Configured" GE identification number was developed and released subsequent to testing and identifies a standard production unit that includes the seismic enhancements incorporated into this test unit.

Mounting: Rigid Base (Floor) Mounted w/ (4) – 3/8" diameter SAE J429 Grade 8 Bolts.

DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	FRONT-AXIS	SIDE-AXIS	VERTICAL-AXIS
23.62	34.06	75	677	>50	>50	46.24

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS — CODE: 2025 CBC

S_{DS} (g)	z/h	H_f	R_μ	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
2.0 2.5	1 0	3.5 1.0	1.3 1.0	1.5	3.20	2.40	1.68	0.68

Unit maintained structural integrity and functionality after the ICC-ES AC 156 test

UUT- 2 TLE Scalable UPS 150kVA UPS with THF & TCE

Manufacturer: GE Consumer & Industrial SA

Identification:
As Labeled: UB1015TL444AA00
As Configured: UB1015TL444AA00-OSHPD-THF-TCE * (Legacy GE P/N)
4NWP105718R0001 + seismic kit 7000195095A (Current ABB P/N)

Description: 150 kVA – 480V UPS

Installed Options:
Top Hat Fascia (THF)
Top cable entry (TCE) (also referred to as Sidecar)
Three power modules installed.

* NOTE: "As Configured" GE identification number was developed and released subsequent to testing and identifies a standard production unit that includes the seismic enhancements and modifications to address anomalies incorporated into this test unit.

Mounting: Rigid Base (Floor) Mounted w/ (4) – 3/8" diameter SAE J429 Grade 8 Bolts.

DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	FRONT-AXIS	SIDE-AXIS	VERTICAL-AXIS
27.56	34.06	75	1108.5 (As Tested) 1024 (w/o Cables)	>50	>50	>50

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS — CODE: 2025 CBC

S_{DS} (g)	z/h	H_f	R_μ	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
2.0 2.5	1 0	3.5 1.0	1.3 1.0	1.5	3.20	2.40	1.68	0.68

Unit maintained structural integrity and functionality after the ICC-ES AC 156 test

REVIEWED FOR CODE COMPLIANCE HCAi OSP-0578 BY: Mohammad Karim DATE: 06/23/2026 CALIFORNIA BUILDING CODE 2025

ATTACHMENT 3: TEST SUMMARY

UUT	REPORT NUMBER	TEST DATE	TEST FACILITY	REPORT UUT
1	SQ12180901	June 11-12, 2018	Environmental Testing Laboratory, Inc.	1
2				2

REVIEWED FOR CODE COMPLIANCE
HCAi
OSP-0578
BY: Mohammad Karim
DATE: 06/23/2026
CALIFORNIA BUILDING CODE, 2025