



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-0674

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Vertiv Corporation

Manufacturer's Technical Representative: Julian Freeman

Mailing Address: 975 Pittsburgh Drive, Delaware, OH 43015

Telephone: (740) 833-8910

Email: Julian.Freeman@vertiv.com

Product Information

Product Name: UPS and Batteries

Product Model Number(s): Li-Ion Battery Cabinet

Product Category: UPS and Batteries

Product Sub-Category: UPS

General Description: UPS (lithium-ion battery cabinet) base mounted rigid standalone or base mounted rigid ganged.

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Contact Person: Victoria Ahrens

Mailing Address: 233 SW Wilson Ave UNIT 101, Bend, OR 97702

Telephone: (541) 292-5820

Email: vahrens@structint.com

Title: Certification Engineer



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

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: LACHEZAR HANDZHIYSKI California License Number: S6515

Mailing Address: 5215 Hellyer Avenue, Suite 210, San Jose, CA 95138

Telephone: (669) 437-0200 Email: Lhandzhiyski@StructInt.com

Certification Method

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

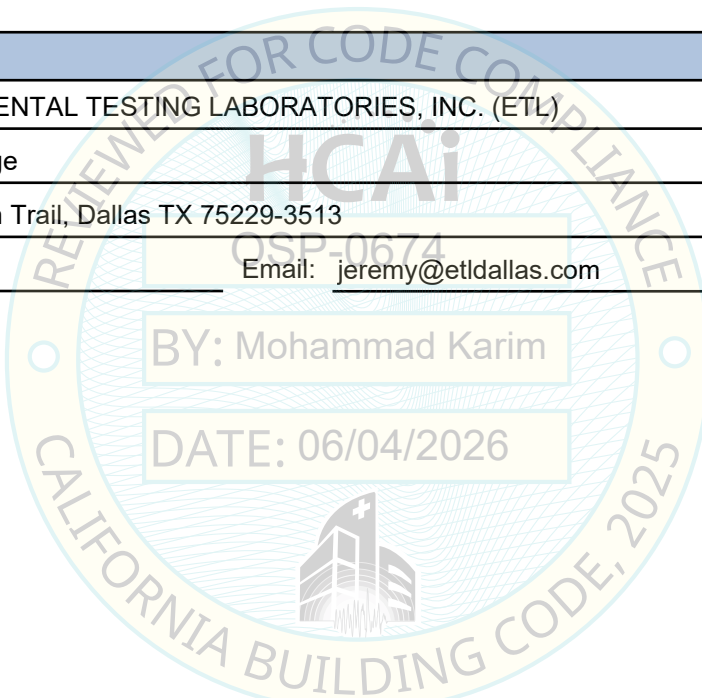
Testing Laboratory

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

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal (A Flx-H), $g = \underline{2.72}$ (A Rig-H), $g = \underline{1.83}$
 Vertical (A Flx-V), $g = \underline{1.43}$ (A Rig-V), $g = \underline{0.57}$

SDS (Design spectral response acceleration at short period, g) = 1.70g (z/h=1); 2.15g (z/h=0)

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

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

I_p (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 06/04/2032

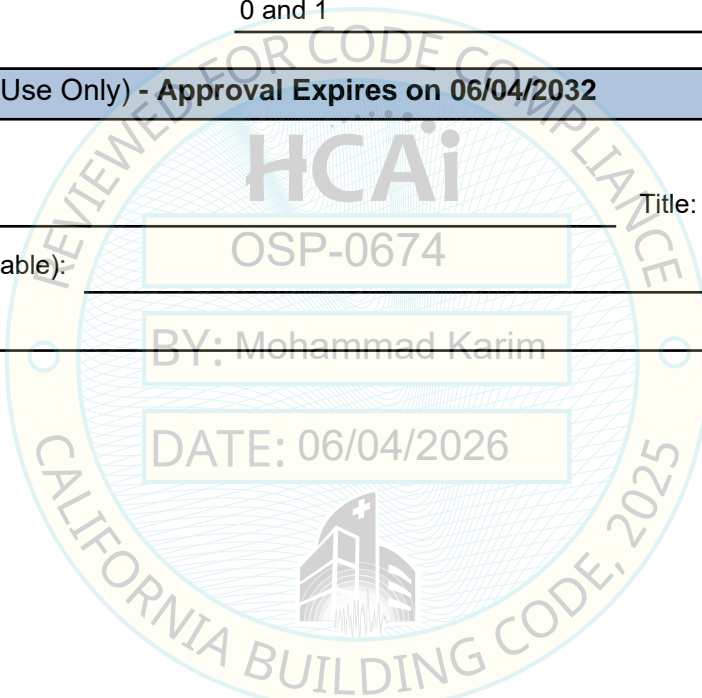
Date: 6/4/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable): OSP-0674

BY: Mohammad Karim

DATE: 06/04/2026



UNIT UNDER TEST (UUT) SUMMARY SHEET

2000359-CR-001-R1



Manufacturer:	Vertiv Corporation	UUT 1
Product Type:	UPS and Batteries	
Model Line:	Li-Ion Battery Cabinet	
Model Number:	PHR3462-001A	
Serial Number:	n/a	
Test Report:		2000359-TR-001-R0 (UUT1)

UUT Properties						
Weight (lbs.)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height ¹	Front-Back	Side-Side	Vertical
1,010	21.0	26.0	91.0	6.2	5.7	16.0

UUT Highest Passed Seismic Run Information											
Building Code	Test Criteria	S _{DS} (g)	z/h	R _μ	H _f	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2025	ICC-ES AC 156-24	1.70	1.0	1.3	3.5	1.5	2.72	1.83	1.43	0.57	
		2.15	0.0	1.0	1.0						

Product Construction Summary:	Test Mounting Details:
14 ga. Carbon Steel Cabinet	

Options/Subcomponent Summary:		
Description	Mfr.	Part Number
Battery Modules	Samsung	EM2031AE00XA (x9), EM2031AE00YA (x8)
Junction Box	Samsung	571563P1
Rack Frame	Samsung	V808-00068A
SMPS Assembly	Samsung	V044-0006XA, SJ94-00238B, V044-0004XA, V044-0005AA
SMU	Samsung	V049-0011XA



UUT Properties Details:
¹ Total height includes the height of the junction box on top of the cabinet.

UUT1 was base mounted - rigid (standalone) using four (4) 5/8" Grade 5 bolts and four (4) plate washers. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

