

# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OSP-0736

HCAI Special Seismic Certification Preapproval (OSP)   Type: X   New Renewal   Manufacturer Information Manufacturer:   Schneider Electric Manufacturer's Technical Representative:   Maining Address: Bormasandra Jigani Link Road, 4th Phase, Bangalore, N/ 562106   Felephone: +91 8067361000 Ext: 61338 Email:   Product Information Product Information   Product Information Product Name: UPS and Batteries   Product Name: UPS and Maintenance Bypass Cabinet ad Karim   Aounting Description: Rigid, Floor Mounted   Perster Seismic Enhancements: None   Applicant Information DATE: 05/03/2022   Applicant Company Name: Structural Integrity Associates, Inc.   Contact Person: Galen Reid   Mailing Address: 233 SW Wilson Ave Suite 101, Bend, OR 97702	AFFLICATION #: 03F-0730
HCAI Special Seismic Certification Preapproval (OSP)	
Type: X New Renewal	
Manufacturer Information	
Manufacturer: Schneider Electric	
Manufacturer's Technical Representative: Muthuvel Sudalaimani	
Mailing Address: Bommasandra Jigani Link Road, 4th Phase , Bangalore, N/ 5	j62106
Telephone: +91 8067361000 Ext: 61338 Email: muthuvel.sudalaima	ani@se.com
Product Information	0,
Product Name: UPS and Batteries	14
Product Type: UPS	Z
Product Model Number: Galaxy VL	Î
General Description: UPS and Maintenance Bypass Cabinet ad Karim	0
Tested Seismic Enhancements: None DATE: 05/03/2022	6
Applicant Information	
Applicant Company Name: Structural Integrity Associates, Inc.	ĴŽ,
Contact Person: Galen Reid	-
Mailing Address: 233 SW Wilson Ave Suite 101, Bend, OR 97702	
Telephone: (541) 604-7225 Email: greid@structint.con	n
Title: Manager, TRU Compliance	

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

HCA



# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.
Name:   Andrew Coughlin   California License Number:   S6082
Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025
Telephone: (415) 635-8461 Email: acoughlin@structint.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: CENTRAL POWER RESEARCH INSTITUTE (CPRI), EARTHQUAKE ENGINEERING AND VIBRATION RESEARCH CENTER
Contact Person: R. Panneer Selvam
Mailing Address: Sadashivanagar Post Office, PB No. 8066, Bangalore Karnataka 560 080
Telephone: (802) 207-2487 O BY Email: dgcpri@cpri.inim O
DATE: 05/03/2022

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#### Seismic Parameters

Desig	n Basis of Equipment or Components	(Fp/Wp) =	0.92 (SDS = 1.28); 0.8	86 (SDS = 1.9	))
	SDS (Design spectral response accele	ration at sho	ort period, g) = $1.28$ (z	/h = 1); 1.9 (z	/h = 0)
	ap (Amplification factor) =	1.0			
	Rp (Response modification factor) =	2.5			
	$\Omega_0$ (System overstrength factor) =	2.0			
	Ip (Importance factor) =	1.5			
	z/h (Height ratio factor) =	1 and 0			
	Natural frequencies (Hz) =	See Attachi	ment		
	Overall dimensions and weight =	See Attach	ment ODF		
HCA	Approval (For Office Use Only)	Approval E	Expires on 05/03/20	28 7	
Date:	5/3/2022		DSP-0736	NG.	
Name	e: Mohammad Karim			Title:	Supervisor, Health Facilities
Speci	al Seismic Certification Valid Up to: SE	s (g) = See	Above	z/h =	See Above
Condi	tion of Approval (if applicable):	DATE	: 05/03/2022	1/0	
		PRNIA B	CUILDING CO	041	

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## SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

#### 2001373-CR-001-R0

Manufacturer:	Schneider Electric						ТАВ	
Model Line:	Galaxy VL							
<b>Certified Product Cor</b>	nstruction Summary:							
Cabinet frames and p	anels are cold-formed ca	arbon steel	w/ 1.5-2.5	mm thick f	frame mer	nbers.		
Certified Options Sun								
UPS - Standalone or (	-							
MBC - Ganged to UPS	only							
			605					
Mounting Configurat	ion:	EOF		E CO				
Base mounted - rigid	configuration must be of similar						at a d	
Note: Installed mounting c	oninguration must be of sinital	Configuratio	and equiva	alent strengti		<b>1.28 g z</b>		
Building Code: CBC 2	019	Seismic (	Certificatio	on Limits:			/h=1.0 //h=0.0	<i>I</i> <sub>P</sub> = 1.5
	<u><u><u>u</u></u></u>	Dii	mensions	(in)6	Weight	1.50 g 2		
Model Line	Model	Depth	Width	Height	(lb)		Notes	UUT
Galaxy VL UPS	GVLFRM200K500D	R\31.5/	h_33.5	d 77.6rir	1,565	With 10 P	M Installed	1,2
Galaxy VL MBC	GVLMBCA200K500G	31.5	19.7	77.6	397			2
			05/02	/2022				
		PATE.	05/03	12022		5/		
				HHHH				
				RADD	QY/			
		AP		NGC				
		D	UILD!	INC				

## SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

#### 2001373-CR-001-R0



Manufacturer: Model Line:	Schneider Electric Galaxy VL	ents	TABLE 2		
Building Code: CBC 20	019	Seismic Certificat	I <sub>P</sub> = 1.5		
Component Type	Manufacturer Model CODE Description				s UUT
Frames	Schneider Electric	GVLFRM200K500D	Galaxy VL UPS Frame	UPS Frame with 4 pow pre-installed	er modules 1,2
		GVLMBCA200K500G	Galaxy VL MBC Frame		2
D M. I.I.		0G-SBS500KD	Assy. Static Switch Module		1,2
Power Modules	Schneider Electric –	0G-PM50KD2	Assy. Generic Power Module 50kW		1,2
Contactor Assembly	Schneider Electric	0N-87879 DV-N	Bonding Contactor Assembly		1,2
PSU Box	Schneider Electric	0N-87861	PSU Box Assembly		1,2
UC Box	Schneider Electric	0N-2124	UC Box Assembly		1,2
Port Expander	Schneider Electric	0N-87860 DAI	Port Expander Assembly		1,2
Display	Schneider Electric	0N-2084	Display Assembly		1,2
Circuit Breaker	Schneider Electric	PJ1200	MCCB, 1200A, 3P, 600VAC		2
		RAVIA	UII DING COP		

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com

# UNIT UNDER TEST (UUT) SUMMARY SHEET

# COMPLIANCE

#### 2001373-CR-001-R0

UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub>	z/h	۱ <sub>Р</sub>
1	GVLFRM200K500D with 10 power modules installed for 500kW rating.	CPRIBLREVRCMIS C20T0057	Central Power Research Institute (CPRI)	2021	Yes	1.28 1.90	1.0 0.0	1.5
2	GVLFRM200K500D with 10 power modules installed for 500kW rating + GVLMBCA200K500G MBC	CPRIBLREVRCMIS C20T0063	Central Power Research Institute	2021	Yes	1.28 1.90	1.0 0.0	1.5
		ENED	HCAI		1			
		KE	OSP-0736		ZCF			
		D BY:M	ohammad Ka	rim				
			: 05/03/202	2	0			
			*		×01			
		RAVIA	BUILDING	COD				

# UNIT UNDER TEST (UUT) SUMMARY SHEET

#### 2001373-CR-001-R0



Manufacturer:	Schneide	r Electri	ic								1	
Model Line:	Galaxy VL							JUT	L			
Model Number:	GVL200K5	500D wi	th 10 PM Ins	talled		Serial Nu	umber:	N/A				
	-											
Cabinet frames a	nd panels are co	old-form	ned carbon s	steel w/	1.5-2.5mm thi	ck frame	member	S.				
Options/Subcom	ponent Summa	ry:										
	-			$\sim 12$				)				
			rt Expander	: Schne	ider Electric (	)N-87860)	)					
Display: Schneid	er Electric (UN-2	2084)	NEV I									
				UU	T Properties		T					
Model Line: Model Number: Product Constru Cabinet frames a Options/Subcon Frames: Schneid Power Modules Contactor Asser UC Box: Schneid Display: Schneid Weight (lb) 1,565 Buildi CBO		Dii	mension (in					st Natural	Frequen	cy (Hz)		
· · · · · ·		12		05	OS Height 36		t-Back	-	e-Side Ve		rtical	
Model Line: Galaxy VL   Model Number: GVL200K500D with 10 PM Installed   Product Construction Summary: Cabinet frames and panels are cold-formed carbon steel w/ 1.   Options/Subcomponent Summary: Frames: Schneider Electric (GVLFRM200K500D)   Power Modules: Schneider Electric (0G-SBS500KD and 0G-PM Contactor Assembly: Schneider Electric (0N-87879)   PSU Box: Schneider Electric (0N-2124)   Display: Schneider Electric (0N-2084)   UUT UUT   Weight Dimension (in)   (lb) Depth Width   1,565 31.5 33.5   UUT Highest Passed Building Code Test Criteria	77.6		2.5	7	7.7	30	30.9					
		P				····				1		
Buildir	ng Code	Test Criter		eria	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)	
СВС	2019	G	ICC-ES AG	C156 (	05/0 <del>3/202</del> 1.90	2 1.0 0.0	1.5	2.05	1.54	1.27	0.51	
Test Mounting Do	etails:			BUI	LDING							

UUT was rigid base mounted using front seismic bracket 870-50100 (5 M12 bolts), and rear seismic bracket OM-50015 (4 M12 bolts).

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

#### 2001373-CR-001-R0



Manufacturer:	Schneider	<sup>r</sup> Electr	ic								•			
Model Line:	Galaxy VL	Galaxy VL									UUT 2			
Model Number:	GVLFRM20	GVLFRM200K500D + GVLMBCA200K500G Serial Number: N/A												
Product Construc	tion Summary:													
Cabinet frames a	nd panels are co	ld-forn	ned carbon st	eel w/ 1.5-2	2.5mm thic	ck frame r	nember	s.						
Options/Subcom		-												
Frames: Schneid	•			•										
Power Modules: Contactor Assem	•				- (ON 9796		v. Cohn	oidor (ON 2	124)					
Port Expander: S	-													
Fort Expander.		000) L	risplay. Scale		004) <b>Circu</b>	Dieake	<b>1.</b> Schin		.00)					
			NE											
				UUT Pr	operties		Z		<b>F</b>					
Weight <sup>1</sup>	Donth		mension (in) Width <sup>1</sup>	OSP.	0736	E u o a a		st Natural	-	Vertical				
(lb)	<b>Depth</b> 31.5	2	53.2		<b>ight 36</b> 7.6	Front-Back 10.6		-	- <b>Side</b> .3	33.1				
1,962	31.5		UUT Highes					0	.3	3.	5.1			
Ruildir	ng Code	Ρ	Test Crite		haa isa	z/h	I P	A (a)	A (a)	A (g)	A (g)			
Buildin		H	Test criteria		<b>S<sub>DS</sub> (g)</b>	1.0	Р	AFLX-H (B)	A <sub>RIG-H</sub> (g)	AFLX-V (B)	ARIG-V (B)			
CBC	2019		ICC-ESAC	156 05/	$\frac{37202}{1.90}$	$\frac{2}{0.0}$	1.5	2.05	1.54	1.27	0.51			
Test Mounting De	stails:		ARTERIST .				0							
j		6Å	10,											
		-	TATA		Rece	02								
Con Here		23	1	BUIL	DIVIC									
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			a said and		and the second s	follow		muiviuua	ii uetalis	areas				
			1 States	- 12										
				-	A Louis	MBC	- 397 lb	s. <i>,</i> 19.7" V	Vide					
120	-			Brether	1 m	UPS -	1,565 l	bs., 33.5"	Wide					
			-	1	Polar I									
-	. Container		The second second											
					-									
		÷.												
					Contraction of the second									
IIIT was rigid ba	se mounted usin	a front	soismic brac	Late 870 50	)101 ( <u>4 M1</u> 1	2 holts) ar	nd 870 5	0100 (5 M1	2 holte	and roar	coismic			

UUT was rigid base mounted using front seismic brackets 870-50101 (4 M12 bolts) and 870-50100 (5 M12 bolts), and rear seismic brackets OM-50015 (4 M12 bolts) and OM-50014 (2 M12 bolts).

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.