



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

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

OFFICE USE ONLY	
APPLICATION #:	OSP – 0606

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Schneider Electric

Manufacturer's Technical Representative: Weili Cheng

Mailing Address: 4F, Building 9, No. 3000, LongDong Avenue, Pudong New District, Shanghai, China

Telephone: +86 21-6159 8614 Email: Weili.cheng@Schneider-Electric.com

Product Information

Product Name: Galaxy VS-Bravo

Product Type: UPS with Modular Battery Cabinets and Maintenance Bypass Panel

Product Model Number: See Certified Product Listing Tables
(List all unique product identification numbers and/or part numbers)

General Description: Electrical UPS, Battery cabinets, and maintenance bypass panels constructed of sheet metal enclosures. Seismic enhancement made to the test unit and modifications required to address anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: Base mounted rigid & Wall mounted rigid

Applicant Information

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

Contact Person: Galen Reid

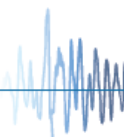
Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138

Telephone: (844) 878-0200 Email: greid@structint.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant:  Date: 5/9/2019

Title: Senior Engineer Company Name: TRU Compliance, by Structural Integrity Associates, Inc.





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

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

Name: Andrew M. Coughlin SE California License Number: S6082

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

Telephone: (844) 878-0200 Email: acoughlin@structint.com

Supports and Attachments Preapproval

- Supports and attachments are preapproved under OPM-
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- Supports and attachments are not preapproved

Certification Method

- Testing in accordance with: ICC-ES AC156
- Other (Please Specify): _____

OSHPD
OSP-0606
BY: Mohammad Aliaari

DATE: 10/08/2020

Testing Laboratory

Company Name: National Technical Systems - Huntsville

Contact Name: Greg Mason

Mailing Address: 7800 Highway 20 West, Huntsville, AL 35806

Telephone: (256) 837-4411 Email: Greg.Mason@nts.com

Company Name: Central Power Research Institute (CPRI)

Contact Name: R Panneer Selvam

Mailing Address: Sadashivanagar Post Office, P.B.No. 8066, Bangalore – 560 080, India

Telephone: +91 80-2207 2487 Email: dgcpri@cpri.in



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 12/16/15)

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: [X] Yes [] No

Design Basis of Equipment or Components (Fp/Wp) = 1.00 (SDS = 1.33g, z/h = 1.0); 0.72 (SDS = 1.60g, z/h = 0.0)

SDS (Design spectral response acceleration at short period, g) = 1.33 (z/h = 1.0); 1.60 (z/h = 0.0)

ap (In-structure equipment or component amplification factor) = 2.5

Rp (Equipment or component response modification factor) = 6.0

Omega_0 (System overstrength factor) = 2.0

Ip (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0 (SDS = 1.33g); 0.0 (SDS = 1.60g)

Equipment or Component Natural Frequencies (Hz) = See Attachment

Overall dimensions and weight (or range thereof) = See Attachment

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: [] Yes [X] No

Design Basis of Equipment or Components (V/W) =

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

SD1 (Design spectral response acceleration at 1 second period, g) =

R (Response modification coefficient) =

Omega_0 (System overstrength factor) =

Cd (Deflection amplification factor) =

Ip (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component Natural Frequencies (Hz) =

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2015: [] Yes [X] No

List of Attachments Supporting Special Seismic Certification

[X] Test Report(s) [] Drawings [] Calculations [] Manufacturer's Catalog

[X] Other(s) (Please Specify): Attachments

OSHPD Approval (For Office Use Only) - Approval Expires on December 31, 2025

Signature: M. Aliari

Date: October 08, 2020

Print Name: Mohammad Aliari

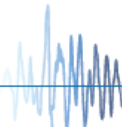
Title: Senior Structural Engineer

Special Seismic Certification Valid Up to : SDS (g) = See Above

z/h = See Above

Condition of Approval (if applicable):

Empty lines for condition of approval



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1801223-CR-001 R2



Manufacturer: Schneider Electric						TABLE 1.1	
Model Line: Galaxy VS							
Certified Product Construction Summary: 1.5mm carbon steel frame and 1mm carbon steel panels.							
Certified Options Summary: See tables 3 and 4 for a full listing of available subcomponents.							
Mounting Configuration: Base Mounted - Rigid (Standalone) Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code: CBC 2019		Seismic Certification Limits:			$S_{DS} = 1.33 g$	$z/h = 1.0$	$I_P = 1.5$
					$S_{DS} = 1.60 g$	$z/h = 0.0$	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Galaxy VS UPS (208V)	GVSUPS10KFS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS15KFS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS20KFS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS25KFS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS30KFS	33.3	20.5	58.5	551	2 Power Modules	Interp.
	GVSUPS40KFS	33.3	20.5	58.5	551	2 Power Modules	Interp.
	GVSUPS50KFS	33.3	20.5	58.5	551	2 Power Modules	Interp.
Galaxy VS UPS (480V)	GVSUPS20KGS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS30KGS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS40KGS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS50KGS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS60KGS	33.3	20.5	58.5	551	2 Power Modules	Interp.
	GVSUPS80KGS	33.3	20.5	58.5	551	2 Power Modules	Interp.
	GVSUPS100KGS	33.3	20.5	58.5	551	2 Power Modules, 100kW 480V	12
Galaxy VS Bravo UPS (Narrow)	GVSUPS20KB2D	34	13	59	816	10kW 208V, UUT: 20kW 480V 2 String Battery Modules	1
Galaxy VS Bravo UPS (Wide)	GVSUPS20KB4D	33	21	58	1512	10KW 208V; 20KW 480V; 4 String Battery Modules	Interp.
	GVSUPS50KB4D	33	21	58	1437	15-25KW 208V; 30-50KW 480V; 4 String Battery Modules	Interp.
Galaxy VS Bravo UPS (Tall)	GVSUPS20KB5D	33	22	78	2134	10KW 208V; 20KW 480V; 5 String Battery Modules	Interp.
	GVSUPS50KB5D	33	22	78	2238	15-25KW 208V; 30-50KW 480V; 5 String Battery Modules	Interp.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1801223-CR-001 R2



Manufacturer: Schneider Electric	TABLE 1.2
Model Line: Galaxy VS	

Certified Product Construction Summary:
1.5mm carbon steel frame and 1mm carbon steel panels.

Certified Options Summary:
See tables 3 and 4 for a full listing of available subcomponents.

Mounting Configuration:
Base Mounted - Rigid (Ganged)
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 1.33 g$ $z/h=1.0$ $I_p = 1.5$
 $S_{DS} = 1.60 g$ $z/h=0.0$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Galaxy VS UPS (208V)	GVSUPS10KFS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS15KFS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS20KFS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS25KFS	33.3	20.5	58.5	485	1 Power Module, 25kW	14
	GVSUPS30KFS	33.3	20.5	58.5	551	2 Power Modules	Interp.
	GVSUPS40KFS	33.3	20.5	58.5	551	2 Power Modules	Interp.
	GVSUPS50KFS	33.3	20.5	58.5	551	2 Power Modules	Interp.
Galaxy VS UPS (480V)	GVSUPS20KGS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS30KGS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS40KGS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS50KGS	33.3	20.5	58.5	485	1 Power Module	Interp.
	GVSUPS60KGS	33.3	20.5	58.5	551	2 Power Modules	Interp.
	GVSUPS80KGS	33.3	20.5	58.5	551	2 Power Modules	Interp.
	GVSUPS100KGS	33.3	20.5	58.5	551	2 Power Modules, 100kW	11,13,15
Galaxy VS Bravo UPS (Narrow)	GVSUPS20KB2D	34	13	59	816	10kW 208V, 20kW 480V 2 String Battery Modules	Interp.
Galaxy VS Bravo UPS (Wide)	GVSUPS20KB4D	33	21	58	1512	10KW 208V; 20KW 480V; 4 String Battery Modules UUT: 20kW 480V	2
	GVSUPS50KB4D	33	21	58	1437	15-25KW 208V;30-50KW 480V; 4 String Battery Modules UUT: 50kW 480V	16

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1801223-CR-001 R2



Manufacturer: Schneider Electric	TABLE 1.2
Model Line: Galaxy VS	

Certified Product Construction Summary:
1.5mm carbon steel frame and 1mm carbon steel panels.

Certified Options Summary:
See tables 3 and 4 for a full listing of available subcomponents.

Mounting Configuration:
Base Mounted - Rigid (Ganged)
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 1.33g \quad z/h=1.0$ $I_p = 1.5$
 $S_{DS} = 1.60g \quad z/h=0.0$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Galaxy VS Bravo UPS (Tall)	GVSUPS20KB5D	33	22	78	2134	10KW 208V; 20KW 480V; 5 String Battery Modules	Interp.
	GVSUPS50KB5D	33	22	78	2238	15-25KW 208V; 30-50KW 480V; 5 String Battery Modules	Interp.
	GVSUPS60KB5D	33	22	78	2193	30KW 208V; 60KW 480V; 5 String Battery Modules	Interp.
	GVSUPS100KB5G	33	22	78	2238	40-50KW 208V; 80-100KW 480V 5 String Battery Modules (UUT: 100kW 480V)	7
Galaxy VS Bravo Modular Battery Cabinet (ModBC)	GVSMODBC6	33	21	58	1763	1.5M, 6 battery strings, circuit breaker, branch circuit fuse	2
	GVSMODBC9	33	22	78	2865	2.0M, 9 battery strings, circuit breaker, branch circuit fuse	7
Maintenance Bypass Cabinet (MBC)	GVSbpsu80G	33.3	11.8	58.5	243	208V: 10-40kW, 480V: 20-80kW	Extrap.
	GVSbpsu150G	33.3	11.8	58.5	265.0	50-75kW 208V; 100-150kW 480V UUT: 150kW 480V	11
MBC with Input Transformer	GVSBPIT25	33.3	23.6	58.5	771	25kW, 480V/600V IN	14
	GVSBPIT25B	33.3	23.6	58.5	869	25kW, 480V/600V IN	Interp.
	GVSBPIT50	33.3	23.6	58.5	1102	50kW, 480V/600V IN	Interp.
MBC with Output Transformer	GVSBPOT50	33.3	23.6	58.5	1102	50kW, 480V IN	Interp.
	GVSBPOT50B	33.3	23.6	58.5	1109	50kW, 480V IN	16
	GVSBPOT100	33.3	23.6	58.5	1367	100kW, 480V IN	13,15

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801223-CR-001 R2



Manufacturer: Schneider Electric Model Line: Galaxy VS		Table Description: Electrical Components			TABLE 3	
Building Code: CBC 2019		Seismic Certification Limits:			$S_{DS} = 1.33 g \quad z/h = 1.0$ $S_{DS} = 1.60 g \quad z/h = 0.0$	
Component Type	Manufacturer	Model	Description	Notes	UUT	
Circuit Breakers	Square D	BJF46125	MCCB 125A 600VAC 4P B Frame		9	
		JDF36150	MCCB 150A 500VDC 3P		4	
		JGF37150D81	MCCB 150A 500VDC 3P		interp.	
		HJF36150CU31X	MCCB 150A 600VAC 3P H Frame		9,14,16	
		JDF36250	MCCB 250A 500VDC 3P		8,11,13,15,16	
		JGF37250D82	MCCB 250A 500VDC 3P		Interp.	
		JJF36250CU31X	MCCB 250A 600VAC 3P J Frame		10,16	
		LJF46250CU31X	MCCB 250A 600VAC 4P L Frame MIC3.3		10	
		LJF36400CU31X	MCCB 400A 600VAC 3P L FRAME 65KA		11	
Power Supply Units	Schneider Electric	0N-96782	Assy. PSU-Connection Box		1,2,6,7,11-16	
		0N-96783	Controller Box		1,2,6,7,11-16	
		0N-96968	Battery Cartridge, 9Ah BRAVO		16	
I/O Assembly	Schneider Electric	ON-96740	I/O Assembly, Bravo, 50kVA		16	
Power Module	Schneider Electric	0G-PM20KD	Assy. Generic Power Module 20KW AGILIS		1,2,6	
		0G-PM50KD	Assy. Generic Power Module 50KW AGILIS		7,11-16	
		0G-PM50KD2	Assy. Generic Power Module 50KW AGILIS		Interp.	
Contactor	Schneider Electric	451-1167-Z	Contactor TESYS 32A AC-3 3P 24V DC		1,2,6	
		451-1240	Contactor 91A 24VDC 3 Poles Busbar ROHS		2	
		LC1D65A6BDS304	Contactor 91A 24VDC 3 Poles		6,7,11-15	
		LC1F150BD	Contactor 3P AC3-150A,440VAC Coil 24VDC		7, 11-15	

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801223-CR-001 R2



Manufacturer: Schneider Electric	Table Description: Electrical Components	TABLE 3
Model Line: Galaxy VS		

Building Code: CBC 2019	Seismic Certification Limits:	$S_{DS} = 1.33\text{ g}$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 1.60\text{ g}$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Switches	Schneider Electric	540-9254	TESYS Vario Switch 40A 690V		1
		540-9256	Disconnect Switch 80A 690V		2,6
		540-9253	Disconnect Switch 175A 690V		7
		LV431629	SWITCH-DISCONNECTOR COMPACT NSX250NA		11-15
Static Bypass Switch	Schneider Electric	0G-SBS20KD	SBS20KVA Module AGILIS		1
		0G-SBS50KD	SBS50KVA Module AGILIS		2,16
		0G-SBS100KD	SBS100KVA Module AGILIS		6,7,11-15
Fuses	Bussman	515-1069-Z	Fuse Fast 63A 690VAC		4, 8
	Mersen	A330188	FUS 315A AR SCW 100X48X20		11-15
		AJT150EI	Fuse AJT150A 500VDC		4
Fuses	Mersen	N330039	Fuse Fast 160A 500VDC/690VAC		1
		TME00470	Fuse 200A AR Blade-mount 48X38.5MM		2,6
		AJT300EI	Fuse AJT300A 500VDC		8
		TME00373	Mains 1 Fuse 315A AR SCW DIN80,000		7
		TME00333	Bypass Fuse 400A AR SCW DIN80,000		7
Batteries	B.B.	BP7-12	7Ah battery		1,2,6,7
	CSB	GP1272	7Ah battery		1,2,4,6,7,8
		HRL1234WF2	9Ah battery		1,2,4,6,7,8
		HR1234WF2	9Ah battery		1,2,4,6,7,8
		XTV 1285	9Ah battery	Same as HR1234WF2	Interp.
	Panasonic	UP-PW1245P1	9Ah battery		1,2,4,6,7,8
	Vision	CP1270	7Ah battery		1,2,4,6,7,8
CP1290 FR		9Ah battery		1,2,4,6,7,8	

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1801223-CR-001 R2



Manufacturer: Schneider Electric	Table Description: Optional Components	TABLE 4
Model Line: Galaxy VS		

Building Code: CBC 2019 **Seismic Certification Limits:** $S_{DS} = 1.33 g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 1.60 g$ $z/h = 0.0$

Component Type	Manufacturer	Model	Description	Notes	UUT
Seismic Kits	Schneider Electric	GVSOPT017	Seismic Kit for Narrow UPS		1,11
		GVSOPT002	Seismic Kit for Wide UPS or Modular Battery Cabinet		2,4,11-16
		GVSOPT016	Seismic Kit for Tall UPS or Modular Battery Cabinet		6,7,8
		GVSOPT008	Seismic Kit for Transformer Cabinet		13-16
Kirk Key Kit	Schneider Electric	GVSOPT004	Kirk Key Kit for Maintenance Bypass		9,10,11
		GVSOPT007	Kirk Key Kit for Transformer Cabinet		13,15,16
Air Filter Kit	Schneider Electric	GVSOPT015	Air Filter Kit for Narrow UPS		1
		GVSOPT001	Air Filter Kit for Wide UPS		2
		GVSOPT014	Air Filter Kit for Tall UPS		6,7
NEMA 2 Hole Lug Kit	Schneider Electric	GVSOPT020	NEMA 2 Hole Busbar for Tall UPS		6,7
Parallel Communications Kit	Schneider Electric	GVSOPT006	Parallel w/ 1+1 aux sw Kit		6,7
Cable Kit	Schneider Electric	GVSOPT012, GVSOPT013	Cable kit for Maintenance Bypass Cabinet		16

UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric						
Model Line: Galaxy VS						
UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _p
1	Galaxy VS Bravo 20kW UPS (Narrow)	PR88708-01TR Rev.1 (UUT1, Run 9)	NTS - Huntsville	1.45 1.67	1.0 0.0	1.5
2	Galaxy VS Bravo - 20kW UPS (Wide) w/ 1.5M ModBC	PR88708-01TR Rev.1 (UUT 2, Run 9)	NTS - Huntsville	1.45 1.67	1.0 0.0	1.5
4	1.5M ModBC (Wide)	PR88708-01TR Rev.1 (UUT4, Run 12)	NTS - Huntsville	1.50 1.64	1.0 0.0	1.5
6	Galaxy VS Bravo 100kW UPS (Tall)	PR88708-01TR Rev.1 (UUT 6a, Run 18))	NTS - Huntsville	1.54 1.69	1.0 0.0	1.5
7	Galaxy VS Bravo - 100kW UPS (Tall) w/ 2.0M ModBC	PR88708-01TR Rev.1 (UUT7, Run 16)	NTS - Huntsville	1.43 1.66	1.0 0.0	1.5
8	2.0M ModBC (Tall)	PR88708-01TR Rev.1 (UUT8, Run 17)	NTS - Huntsville	1.63 1.64	1.0 0.0	1.5
9	Maintenance Bypass Panel 20KW, Wall mounted	PR88708-01TR Rev.1 (UUT9, Run 5)	NTS - Huntsville	1.33 1.63	1.0 0.0	1.5
10	Maintenance Bypass Panel 100KW, Wall mounted	PR88708-01TR Rev.1 (UUT10, Run 5)	NTS - Huntsville	1.33 1.63	1.0 0.0	1.5
11	Galaxy VS 100kW UPS with 150kW MBC	PR079655-TR-18 Rev.1 (UUT1, Run 4)	NTS - Huntsville	1.45 2.00	1.0 0.0	1.5
12	Galaxy VS 100kW UPS	PR079655-TR-18 Rev.1 (UUT2a, Run 8)	NTS - Huntsville	1.45 2.00	1.0 0.0	1.5
13	Galaxy VS 100kW UPS w/100kW MBC & output transformer	PR079655-TR-18 Rev.1 (UUT3, Run 17)	NTS - Huntsville	1.45 2.00	1.0 0.0	1.5
14	Galaxy VS 25kW UPS w/25kW MBC	PR079655-TR-18 (UUT4, Run 13)	NTS - Huntsville	1.45 2.00	1.0 0.0	1.5
15	Galaxy VS 100kW UPS w/100kW MBC	PR087029-01TR Rev. 1 (UUT1, Run 4)	NTS - Huntsville	1.45 2.00	1.0 0.0	1.5
16	Galaxy VS Bravo 50kW UPS w/50kW MBC	CPRIBLREVRC19T0113	Central Power Research Institute (CPRI)	1.45 1.60	1.0 0.0	1.5

Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 1
Model Line: Galaxy VS	
Model Number: GVSUPS20KB2D Serial Number: N/A	

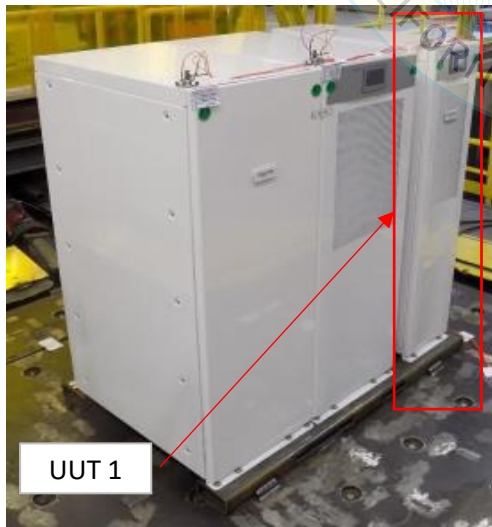
Product Construction Summary:
Galaxy VS Bravo 20kW UPS (Narrow)
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Power Module (PN: 0G-PM20KD), Contactor (PN: 451-1167-Z), Module Agilis (PN: 0G-SBS20KD), PSU-Connection Box (PN: 0N-96783), Fuse Fast (PN: N330039), Control Box (PN: 0N-96783), Vario Switch (PN: 540-9254), BTU Battery (PN: HRL1234WF2), BTU Battery (PN: HR1234WF2), BTU Battery (PN: GP1272), BTU Battery (PN: CP1290 FR), BTU Battery (PN: CP1270), BTU Battery (PN: UP-PW1245P1), BTU Battery (PN: PXL12090), BTU Battery (PN: Bp7-12), Air Filter Kit (PN: GVSOPT015)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
816	34	13	59	18.0	7.0	32.5

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2015)	1.45 1.67	1.0 0.0	1.5	2.32	1.74	1.11	0.45	

Test Mounting Details:



The UUT was rigid-base mounted using customer provided seismic kit (PN:GVSOPT003). (6) M8 bolts and washers were used to mount the bracket to the UUT, and (4) M12 bolts were used to mount the UUT to the shake table.
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

1801223-CR-001 R2



Manufacturer: Schneider Electric

Model Line: Galaxy VS

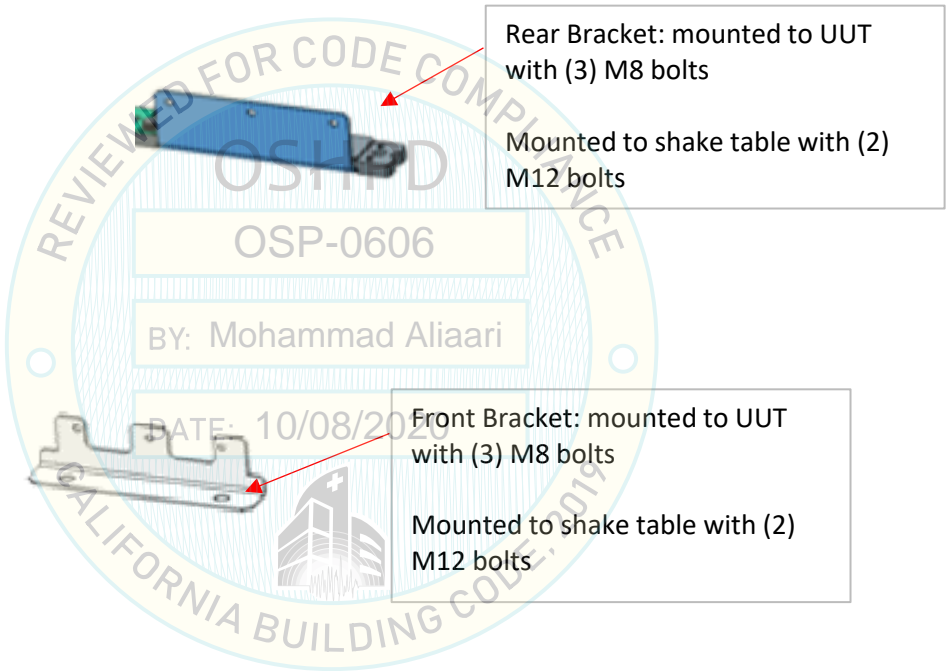
Model Number: GVSUPS20KB2D

Serial Number: N/A

UUT 1

Seismic Mounting Kit Details:

Part Number: GVSOPT003



UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 2
Model Line: Galaxy VS	
Model Number: GVSUPS20KB4D & GVSMODBC6	
Serial Number: N/A	

Product Construction Summary:
Galaxy VS Bravo - 20kW UPS (Wide) w/ 1.5M ModBC
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Power Module (PN: 0G-PM20KD), Contactor (PN: 451-1167-Z), Contactor (451-1240), Module Agilis (PN: 0G-SBS50KD), PSU-Connection Box (PN: 0N-96783), Fuse Fast (PN: N330039), Control Box (PN: 0N-96783), Vario Switch (PN: 540-9254), BTU Battery (PN: HRL1234WF2), BTU Battery (PN: HR1234WF2), BTU Battery (PN: GP1272), BTU Battery (PN: CP1290 FR), BTU Battery (PN: CP1270), BTU Battery (PN: UP-PW1245P1), BTU Battery (PN: PXL12090), BTU Battery (PN: Bp7-12)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
3276	33	42	58	14.0	9.5	3.5

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2015)	1.45	1.0	1.5	2.32	1.74	1.11	0.45	
		1.67	0.0						

Test Mounting Details:



The UUT was rigid-base mounted using (2) customer provided seismic kits (PN: GVSOPT002). (16) M8 bolts and washers were used to mount the brackets to the UUT, and (15) M12 bolts were used to mount the UUT to the shake table. 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

1801223-CR-001 R2



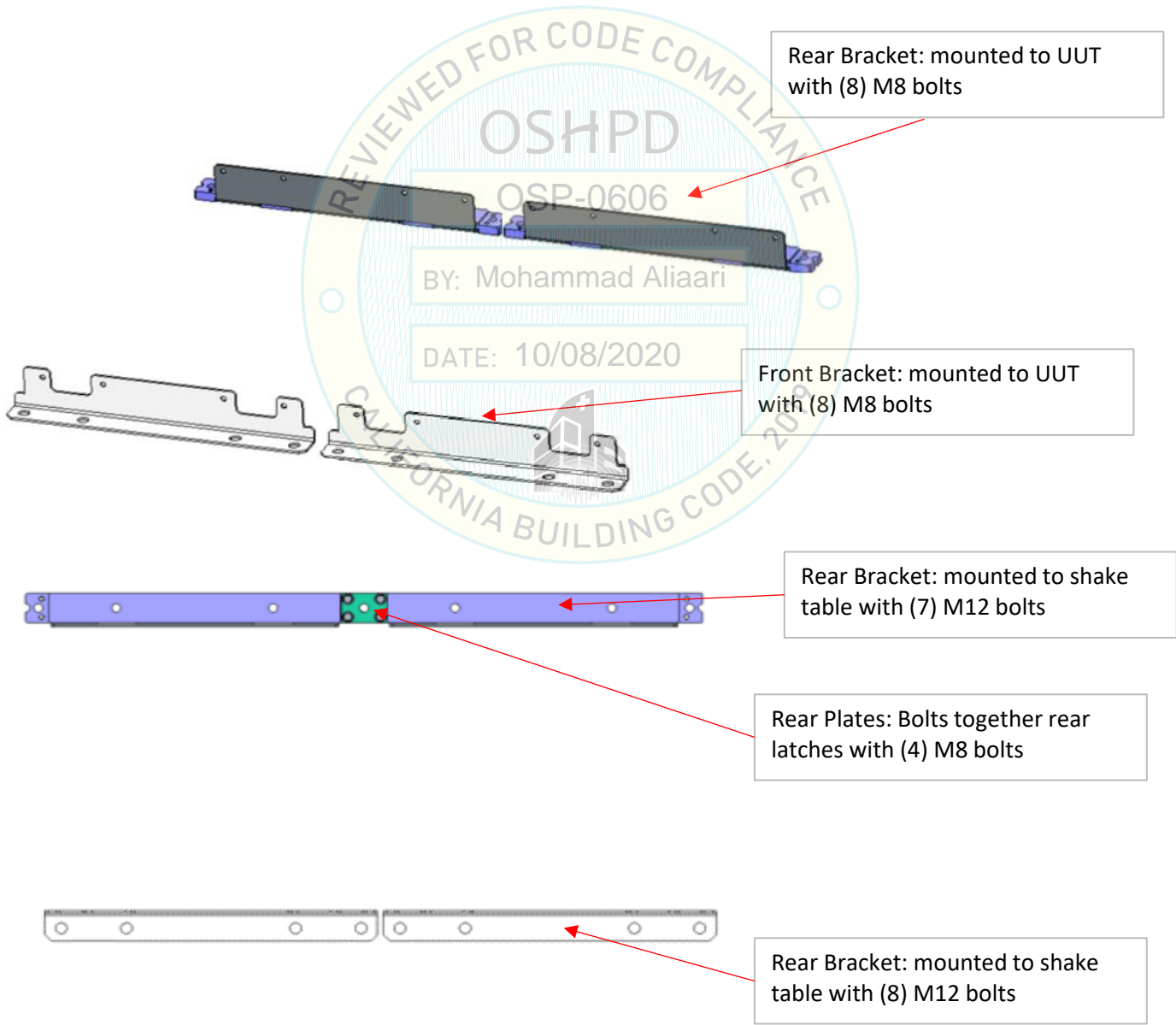
Manufacturer: Schneider Electric
Model Line: Galaxy VS
Model Number: GVSUPS20KB4D & GVSMODBC6

Serial Number: N/A

UUT 2

Seismic Mounting Kit Details:

Part Number: GVSOPT002 (2 pcs)



UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 4
Model Line: Galaxy VS	
Model Number: GVSMODBC6 Serial Number: N/A	

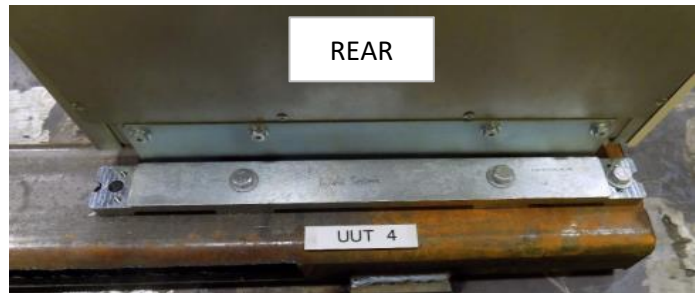
Product Construction Summary:
1.5M ModBC (Wide)
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Fast Fuse (PN: 515-1069-Z), MCCB (PN: JDF36150), Battery Management Control Board (PN: 0N-87771), Fuse (PN: AJT150EI), BTU Battery (PN: HRL1234WF2), BTU Battery (PN: HR1234WF2), BTU Battery (PN: GP1272), BTU Battery (PN: CP1290 FR), BTU Battery (PN: CP1270), BTU Battery (PN: UP-PW1245P1), BTU Battery (PN: PXL12090), BTU Battery (PN: BP7-12)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1763	33	21	58	14.0	9.5	32.5

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2015)	1.50	1.0	1.5	2.40	1.80	1.09	0.44	
		1.64	0.0						

Test Mounting Details:



The UUT was rigid-base mounted using customer provided seismic kit (PN:GVSOPT002). (8) M8 bolts and washers were used to mount the bracket to the UUT, and (8) M12 bolts were used to mount the UUT to the shake table. 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

1801223-CR-001 R2



Manufacturer: Schneider Electric

Model Line: Galaxy VS

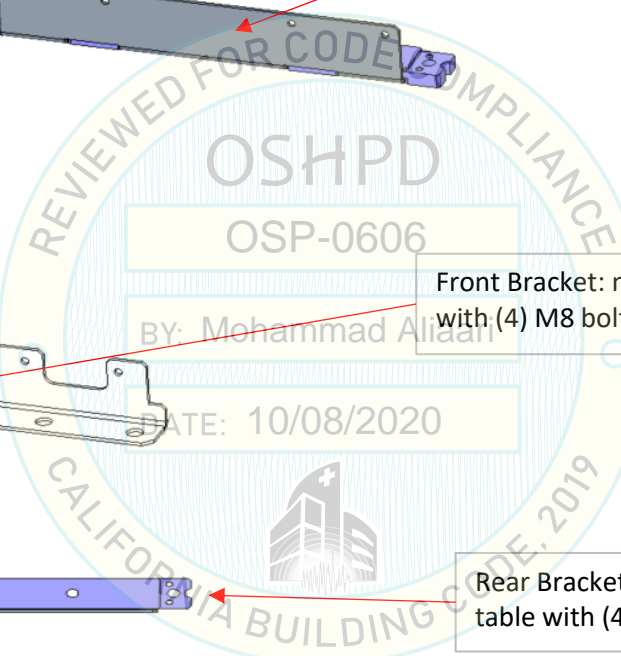
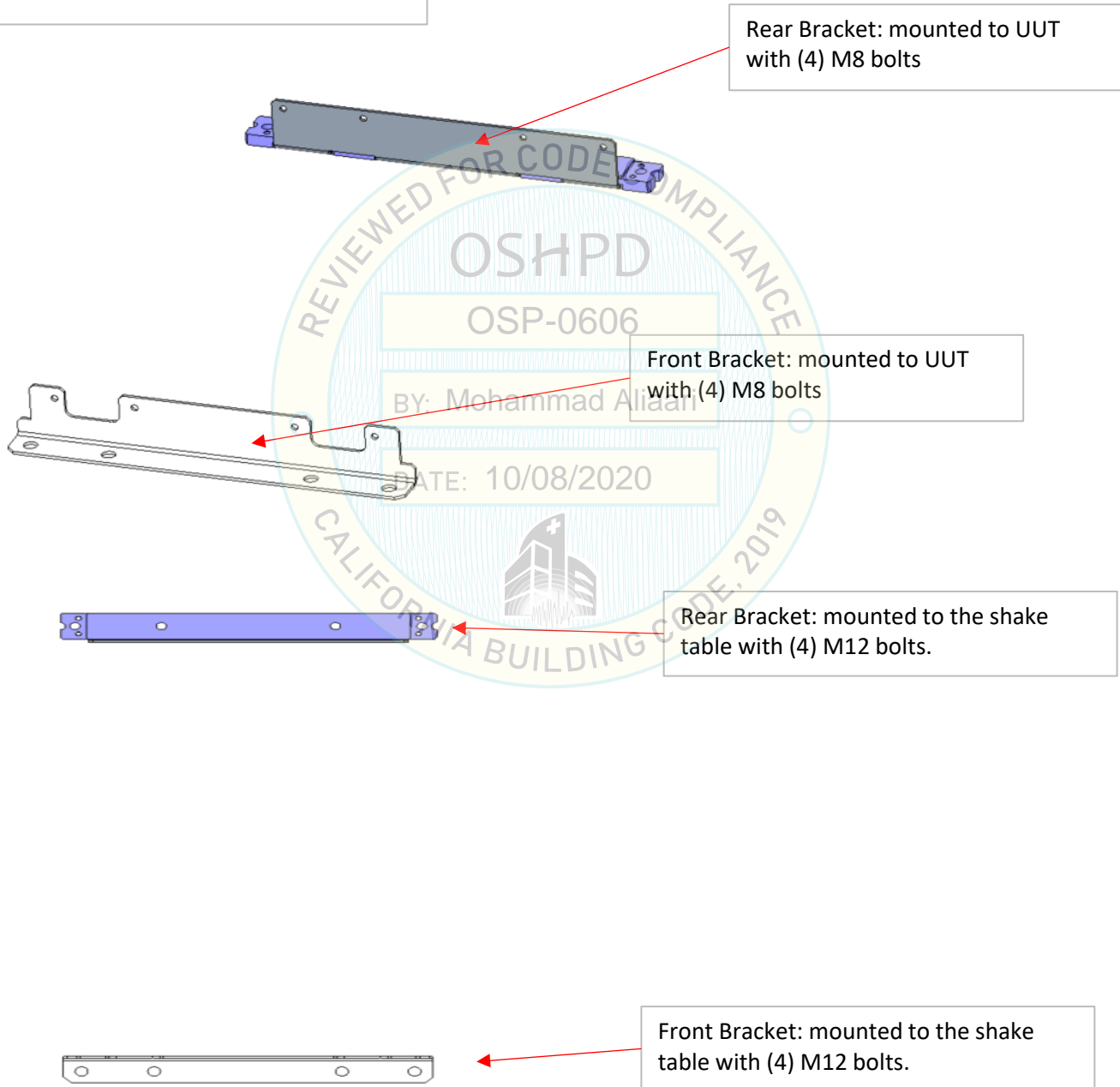
Model Number: GVSMODBC6

Serial Number: N/A

UUT 4

Seismic Mounting Kit Details:

Part Number: GVSOPT002



UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 6
Model Line: Galaxy VS	
Model Number: GVSUPS100KB5D	
Serial Number: N/A	

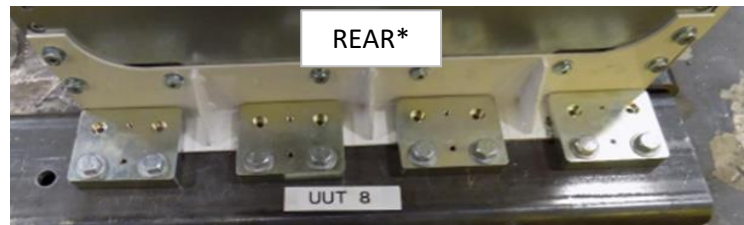
Product Construction Summary:
Galaxy VS Bravo 100kW UPS (Tall)
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Power Module (PN: 0G-PM50KD), Contactor (PN: LC1D65A6BDS304), Contactor (PN: LC1F150BD), Module Agilis (PN: 0G-SBS100KD), Switch (PN: 540-9253), PSU-Connection Box (0N-96782), Main Fuse (PN: TME00373), Bypass Fuse (PN: TME00333), Controller Box (PN: 0N-96783), BTU Battery (PN: HRL1234WF2), BTU Battery (PN: HR1234WF2), BTU Battery (PN: GP1272), BTU Battery (PN: CP1290 FR), BTU Battery (PN: CP1270), BTU Battery (PN: UP-PW1245P1), BTU Battery (PN: PXL12090), BTU Battery (PN: BP7-12)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2238	33	22	78	8.5	7.5	26.0

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2015)	1.54	1.0	1.5	2.46	1.85	1.13	0.45	
		1.69	0.0						

Test Mounting Details:



***Mounting brackets used with UUT8 required for installation**

The UUT was rigid-base mounted using customer provided seismic kit (PN:GVSOPT016). (16) M8 bolts and (2) M6 bolts and washers were used to mount the bracket to the UUT. (14) M12 bolts were used to mount the UUT to the shake table. 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

1801223-CR-001 R2



Manufacturer: Schneider Electric

Model Line: Galaxy VS

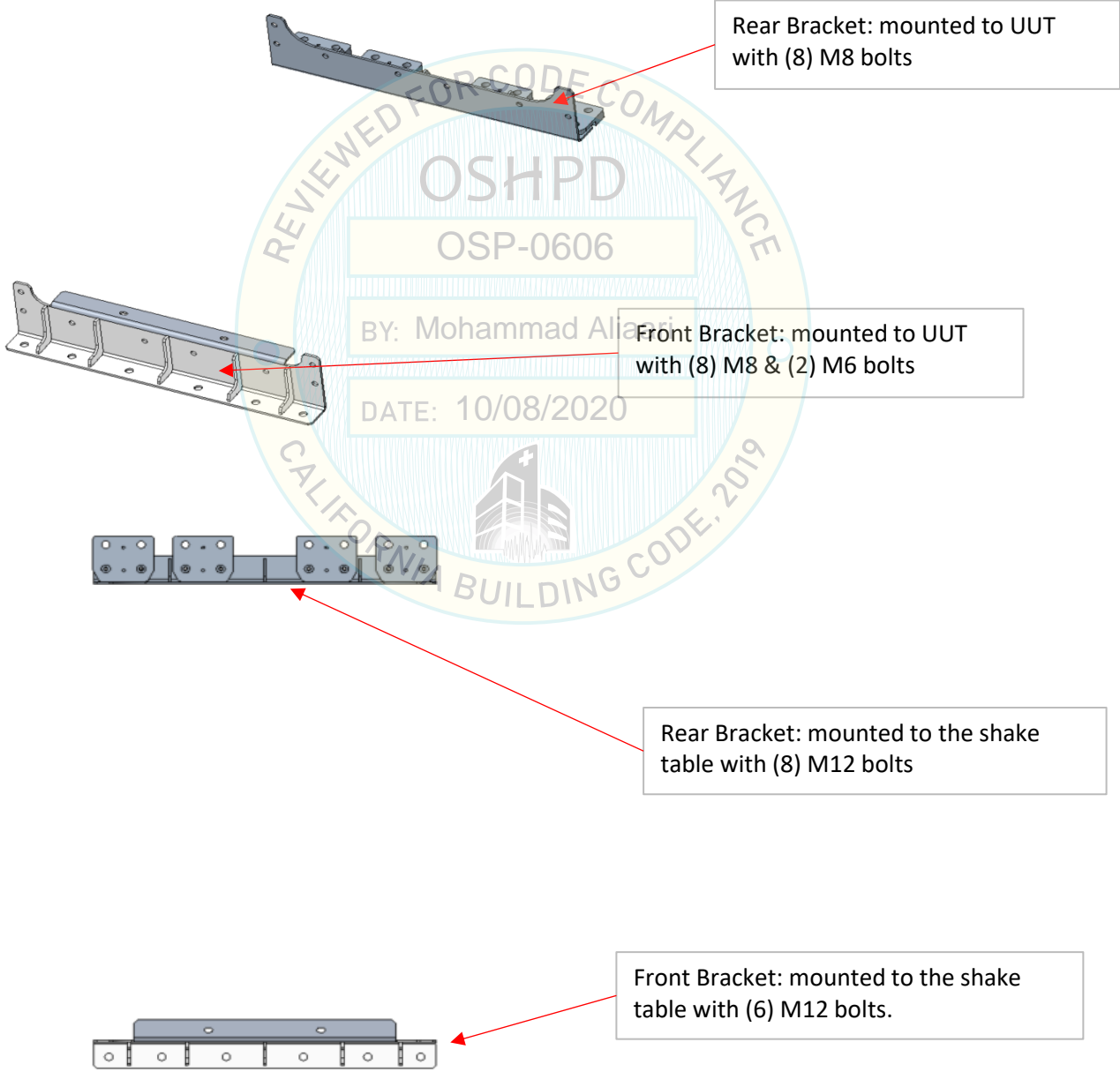
Model Number: GVSUPS100KB5D

Serial Number: N/A

UUT 6

Seismic Mounting Kit Details:

Part Number: GVSOPT016



UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 7*
Model Line: Galaxy VS	
Model Number: GVSUPS100KB5G & GVSMODBC9 Serial Number: N/A	

Product Construction Summary:
Galaxy VS Bravo - 100kW UPS (Tall) w/ 2.0M ModBC; 1.5mm carbon steel frame and 1mm carbon steel panels.
*UUT7 consisted of UUT6 + UUT8 joined together.

Options/Subcomponent Summary:
Power Module (PN: 0G-PM50KD), Contactor (PN: LC1D65A6BDS304), Contactor (PN: LC1F150BD), Module Agilis (PN: 0G-SBS100KD), Switch (PN: 540-9253), PSU-Connection Box (0N-96782), Main Fuse (PN: TME00373), Bypass Fuse (PN: TME00333), Controller Box (PN: 0N-96783), BTU Battery (PN: HRL1234WF2), BTU Battery (PN: HR1234WF2), BTU Battery (PN: GP1272), BTU Battery (PN: CP1290 FR), BTU Battery (PN: CP1270), BTU Battery (PN: UP-PW1245P1), BTU Battery (PN: PXL12090), BTU Battery (PN: BP7-12), Battery Management Control Board (PN: 0N-87771), Fast Fuse (PN: 515-1069-Z), MCCB (PN: JDF36250)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
5103	33	44	78	8.5	7.5	26.0

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2015)	1.43	1.0	1.5	2.28	1.72	1.11	0.44	
		1.66	0.0						

Test Mounting Details:



The UUT was rigid-base mounted using (2) customer provided seismic kits (PN:GVSOPT016). (30) M8 bolts and washers were used to mount the brackets to the UUT, and (28) M12 bolts were used to mount the UUT to the shake table. 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

1801223-CR-001 R2



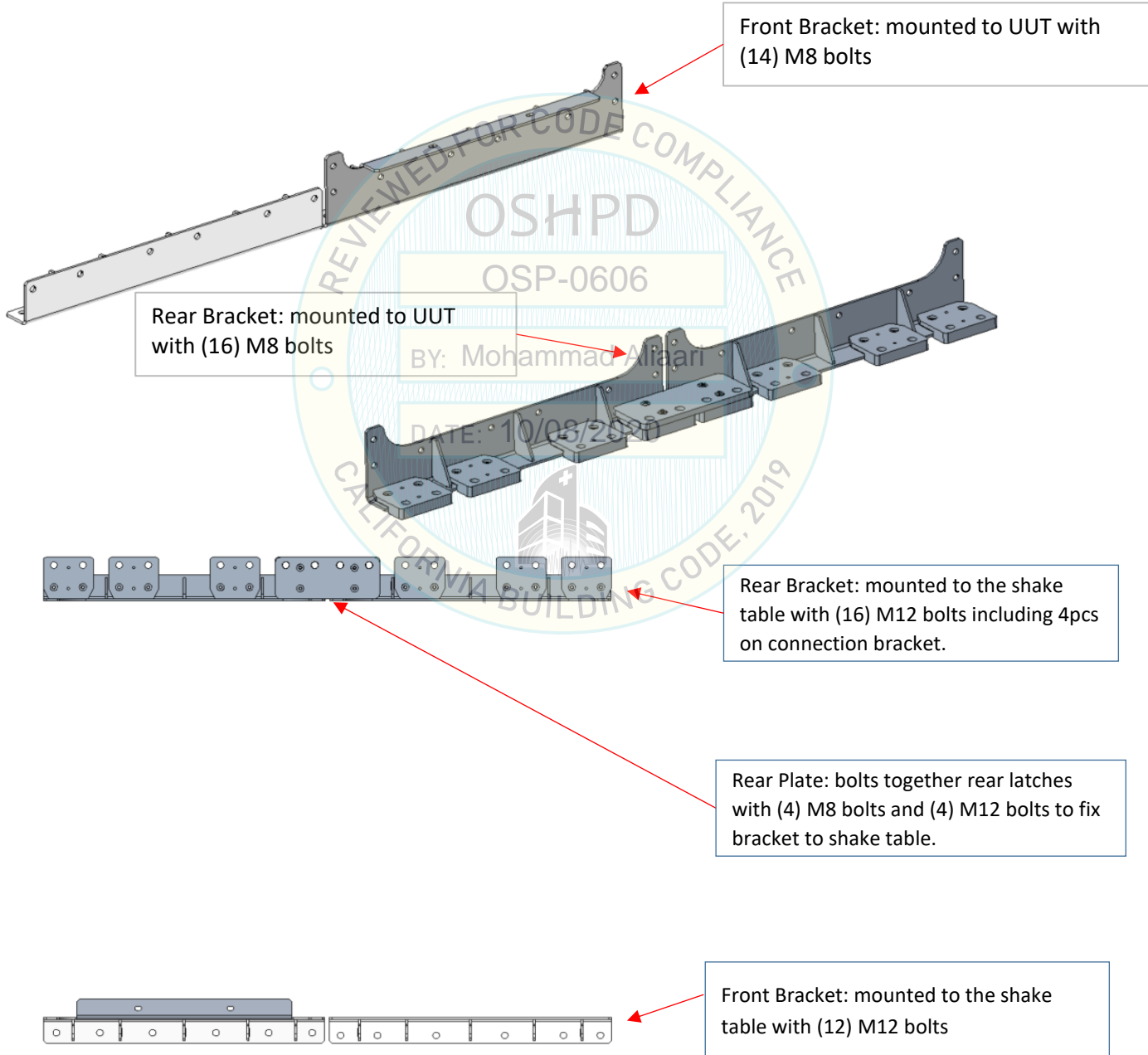
Manufacturer: Schneider Electric
Model Line: Galaxy VS
Model Number: GVSUPS100KB5G & GVSMODBC9

Serial Number: N/A

UUT 7*

Seismic Mounting Kit Details:

Part Number: GVSOPT016 (2 pcs)



UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 8
Model Line: Galaxy VS	
Model Number: GVSMODBC9 Serial Number: N/A	

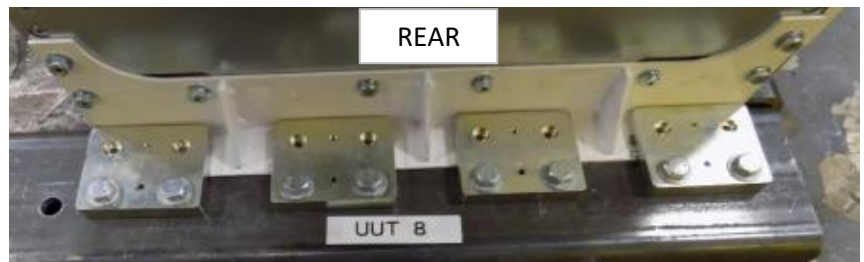
Product Construction Summary:
2.0M ModBC (Tall)
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Fast Fuse (PN: 515-1069-Z), MCCB (PN: JDF36250), Battery Management Control Board (PN: 0N-87771), Fuse (PN: AJT300EI), BTU Battery (PN: HRL1234WF2), BTU Battery (PN: HR1234WF2), BTU Battery (PN: GP1272), BTU Battery (PN: CP1290 FR), BTU Battery (PN: CP1270), BTU Battery (PN: UP-PW1245P1), BTU Battery (PN: PXL12090), BTU Battery (PN: BP7-12)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2865	33	22	78	8.5	7.5	28.0

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2015)	1.63	1.0	1.5	2.61	1.96	1.09	0.44	
		1.64	0.0						

Test Mounting Details:



The UUT was rigid-base mounted using customer provided seismic kit (PN:GVSOPT016). (16) M8 bolts and (2) M6 and washers were used to mount the bracket to the UUT, and (14) M12 bolts were used to mount the UUT to the shake table. 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

1801223-CR-001 R2



Manufacturer: Schneider Electric

Model Line: Galaxy VS

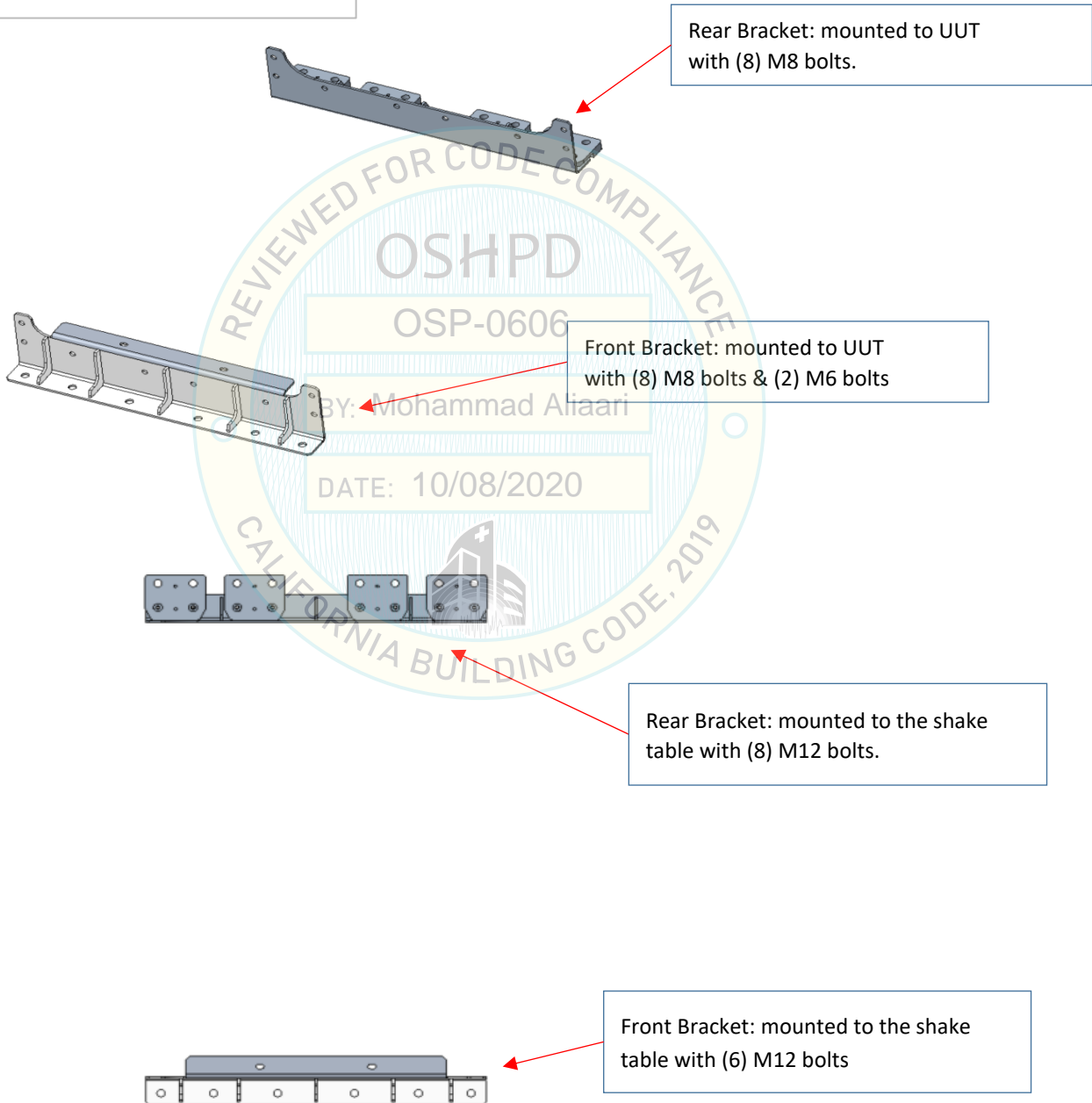
Model Number: GVSMODBC9

Serial Number: N/A

UUT 8

Seismic Mounting Kit Details:

Part Number: GVSOPT016



UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 9
Model Line: Galaxy VS	
Model Number: GVSBSU60G-WP Serial Number: N/A	

Product Construction Summary:
Maintenance Bypass Panel 20KW, Wall mounted
1.5mm carbon steel enclosure

Options/Subcomponent Summary:
MCCB (PN: HUF36150CU31Z), MCCB (BJF46125), Kirk Key (PN:GVSOPT004)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
62	9	24	26	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	1.33	1.0	1.5	2.13	1.60	1.07	0.44
		1.63	0.0					

Test Mounting Details:



The UUT was wall mounted rigid using four (4) M10 8.8 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



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 10
Model Line: Galaxy VS	
Model Number: GVSbpsu100G-WP Serial Number: N/A	

Product Construction Summary:
Maintenance Bypass Panel 100KW, Wall mounted
1.5mm carbon steel enclosure

Options/Subcomponent Summary:
MCCB (PN: JJF36250CU31X), MCCB (PN: LIF46250CU31X), Kirk Key (PN:GVSOPT004)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
192	11	39	33	N/A	N/A	N/A

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2015)	1.33	1.0	1.5	2.13	1.60	1.07	0.44	
		1.63	0.0						

Test Mounting Details:



The UUT was wall mounted rigid using four (4) M10 8.8 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



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 11
Model Line: Galaxy VS	
Model Number: GVSUPS100KGS w/GVSBPSU150G	
Serial Number: N/A	

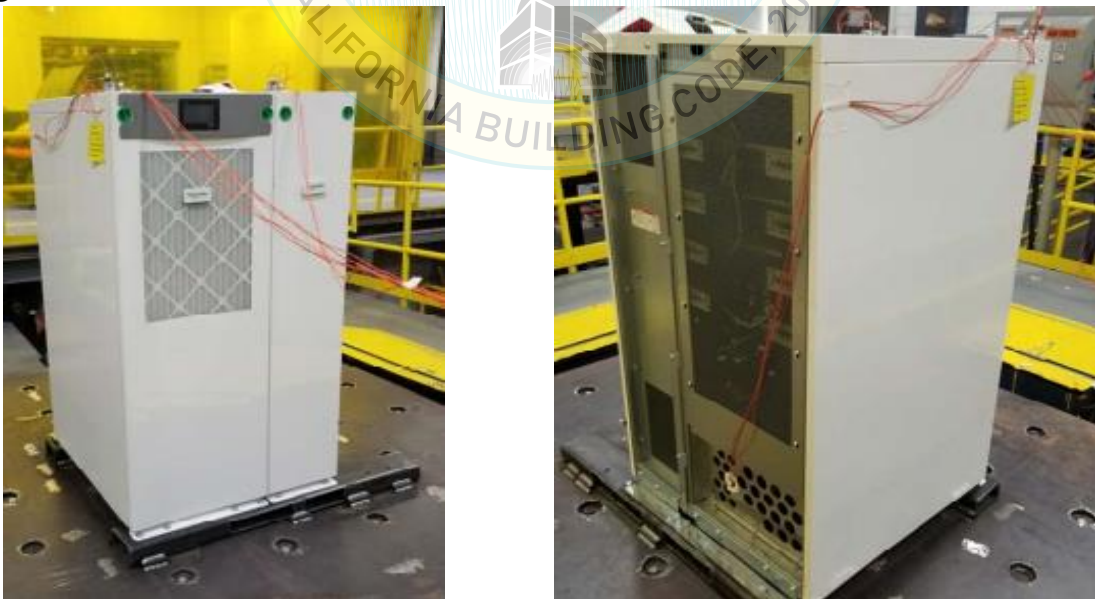
Product Construction Summary:
Galaxy VS 100kW UPS with 150kW MBC
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Power Modules (PN: 0G-PM50KD), Contactor (PN: LC1D65ABDS304, LC1F150BD), Circuit Breaker (PN: JDF36250, LJF36400CU31X), Power Supply (PN: 0N96782, 0N96783), Switc (PN: LV431629), Fuse (PN: A330188), Static Bypass switch (PN: 0G-SBS100KD), Seismic kit (PN: GVSOPT002, GVSOPT003), Kirk Key Kit (PN: GVSOPT004)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
816	33.3	32.3	58.5	16.2	8.0	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2018)	1.45	1.0	1.5	2.32	1.74	1.33	0.53	
		2.00	0.0						

Test Mounting Details:



The UUT was rigid-base mounted using customer provided seismic kit (PN:GVSOPT002 and GVSOPT003). The seismic kit mounting details can be found on the following page. M8 bolts were torqued to 21 Nm. M10 bolts were torqued to 42 Nm. 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

1801223-CR-001 R2



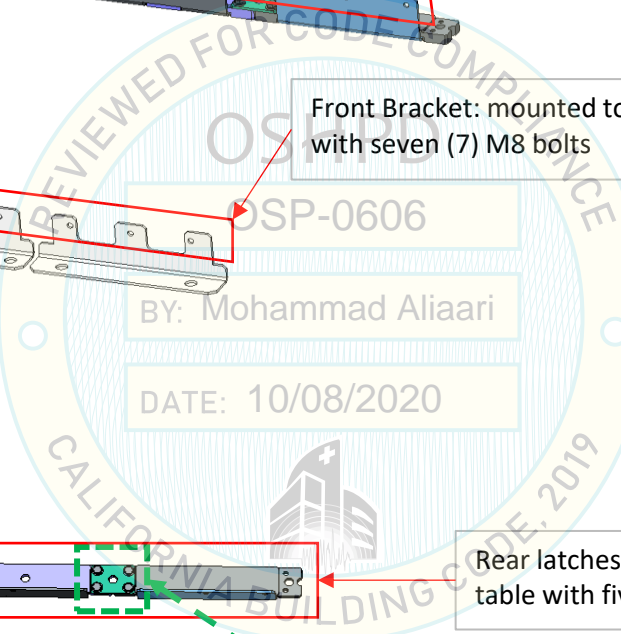
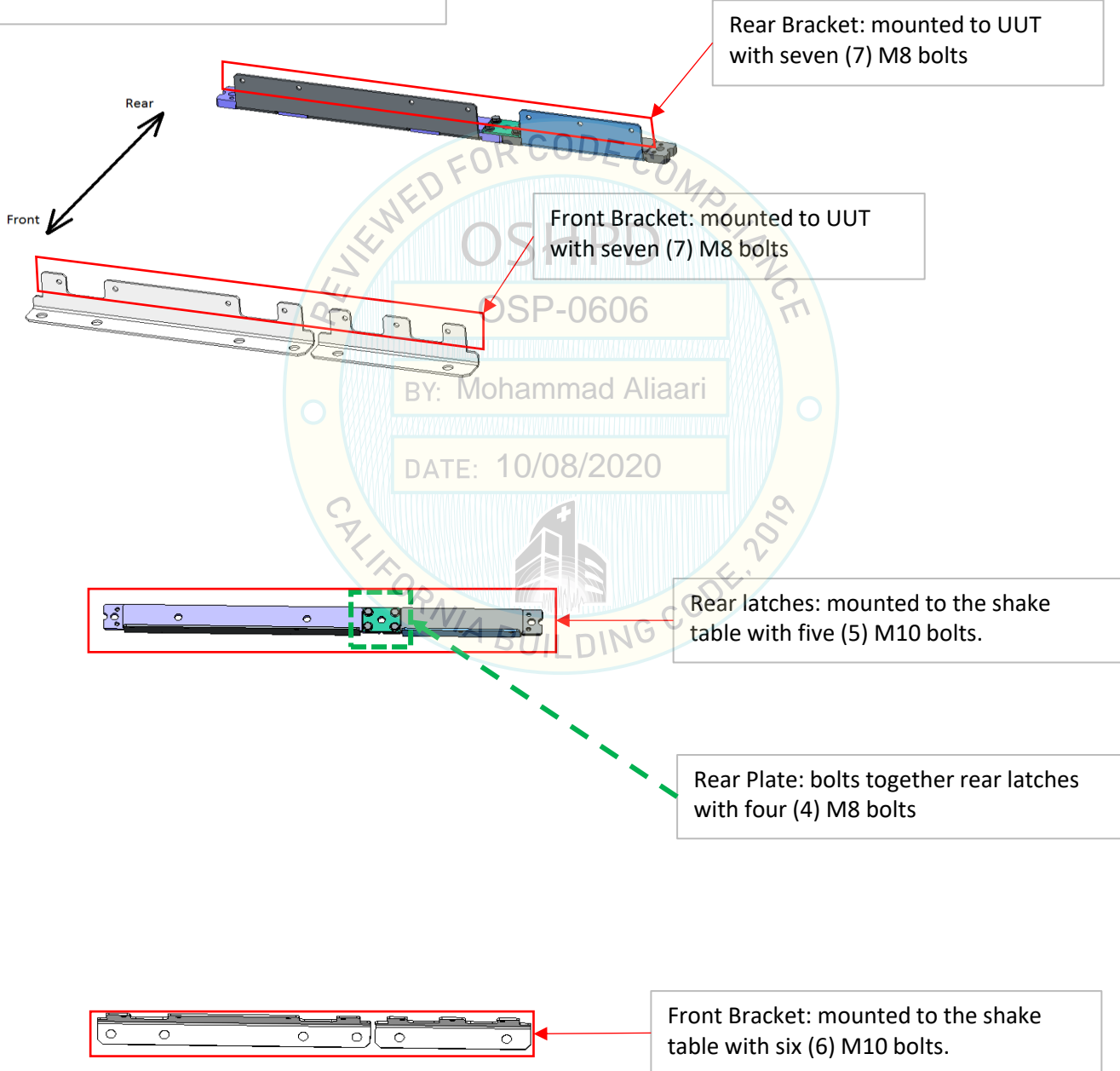
Manufacturer: Schneider Electric
Model Line: Galaxy VS
Model Number: GVSUPS100KGS w/GVSBPSU150G

Serial Number: N/A

UUT 11

Seismic Mounting Kit Details:

Part Numbers: GVSOPT002 and GVSOPT003



UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 12
Model Line: Galaxy VS	
Model Number: GVSUPS100KGS Serial Number: N/A	

Product Construction Summary:
Galaxy VS 100kW UPS
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Power Modules (PN: 0G-PN50KD), Contactor (PN: LC1D65A6BDS304, LC1F150BD), Circuit Breaker (PN: JJF36250CU31X, LJF36400CU31X), Power Supply (PN: 0N-96782, 0N-96783), Fuse (PN: A330188), Static Bypass switch (PN: 0G-SBS100KD), Seismic kit (PN: GVSOPT002)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
551	33.3	20.5	58.5	15.9	6.1	>33.3

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2018)	1.45	1.0	1.5	2.32	1.74	1.33	0.53	
		2.00	0.0						

Test Mounting Details:



The UUT was rigid-base mounted using customer provided seismic kit (PN: GVSOPT002). The seismic kit mounting details can be found on the following page. M8 bolts were torqued to 21 Nm. M10 bolts were torqued to 42 Nm. 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

1801223-CR-001 R2



Manufacturer: Schneider Electric

Model Line: Galaxy VS

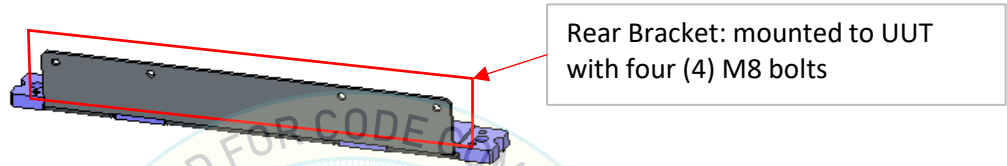
Model Number: GVSUPS100KGS

Serial Number: N/A

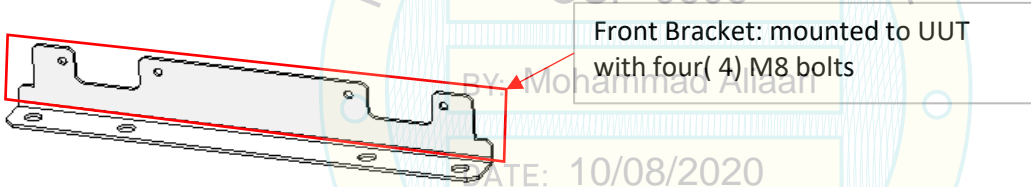
UUT 12

Seismic Mounting Kit Details:

Part Number: GVSOPT002



Rear Bracket: mounted to UUT with four (4) M8 bolts



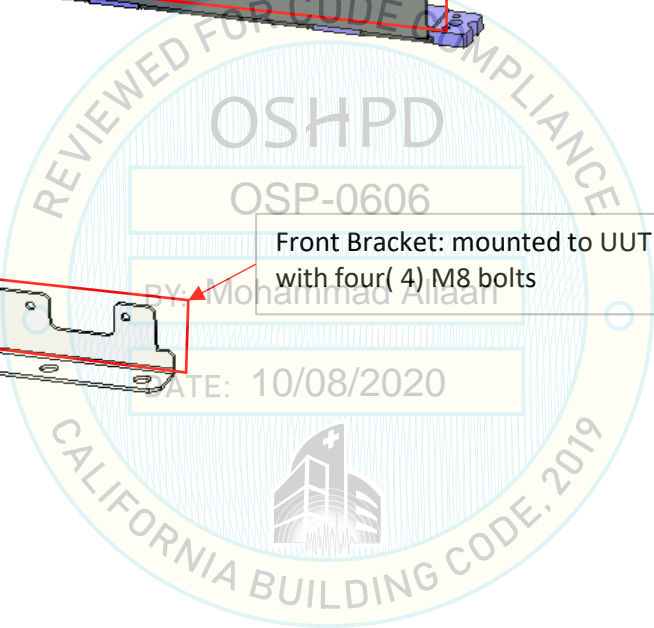
Front Bracket: mounted to UUT with four (4) M8 bolts



Rear latches: mounted to the shake table with four (4) M10 bolts.



Front Bracket: mounted to the shake table with four (4) M10 bolts.



UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 13
Model Line: Galaxy VS	
Model Number: GVSUPS100KGS w/GVSBPOT100	
Serial Number: N/A	

Product Construction Summary:
Galaxy VS 100kW UPS w/100kW MBC & output transformer
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Power Modules (PN: 0G-PM50KD), Contactor (PN: LC1D65A6BDS304, LC1F150BD), Circuit Breaker (PN: JDF36250), Power Supply (PN: 0N-96782, 0N-96783), Fuse (PN: A330188), Static Bypass switch (PN: 0G-SBS100KD), Switch (PN: LV431629), Transformer (PN: TP-0100-0459), Seismic kit (GVSOPT002, GVSOPT008), Kirk Key Kit (PN: GVSOPT007)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1918	33.3	44.1	58.5	14.7	9.7	18.2

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2018)	1.45	1.0	1.5	2.32	1.74	1.33	0.53	
		2.00	0.0						

Test Mounting Details:



The UUT was rigid-base mounted using customer provided seismic kit (GVSOPT002 and GVSOPT008). The seismic kit mounting details can be found on the following page. M8 bolts were torqued to 21 Nm. M10 bolts were torqued to 42 Nm. 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

1801223-CR-001 R2



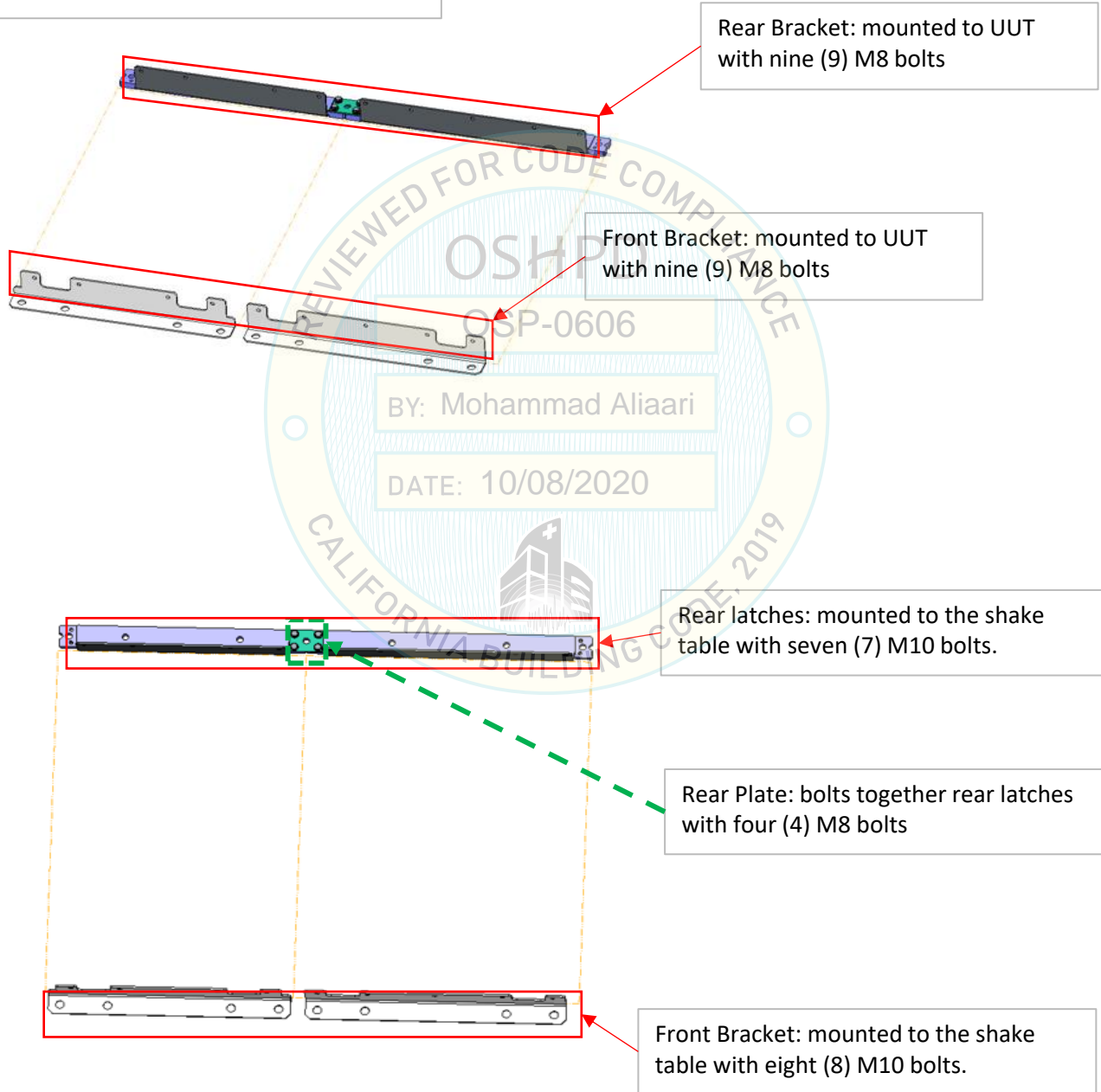
Manufacturer: Schneider Electric
Model Line: Galaxy VS
Model Number: GVSUPS100KGS w/GVSBPOT100

Serial Number: N/A

UUT 13

Seismic Mounting Kit Details:

Part Numbers: GVSOPT002 and GVSOPT008



BY: Mohammad Aliaari

DATE: 10/08/2020

UNIT UNDER TEST (UUT) SUMMARY SHEET



1801223-CR-001 R2

Manufacturer: Schneider Electric	UUT 14
Model Line: Galaxy VS	
Model Number: GVSUPS25KFS w/GVSBPIT25	
Serial Number: N/A	

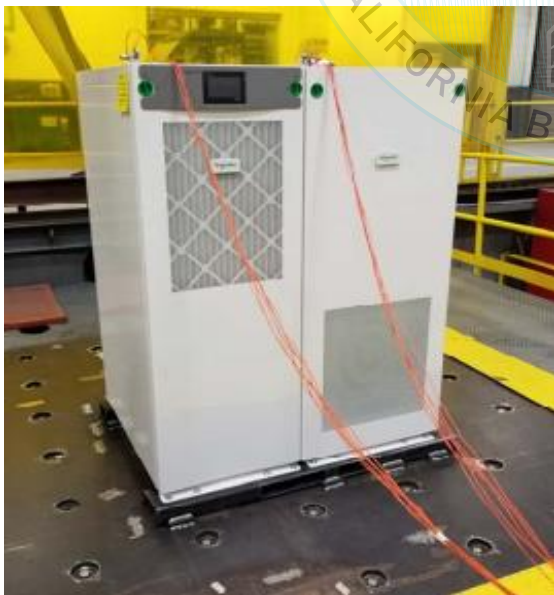
Product Construction Summary:
Galaxy VS 25kW UPS w/25kW MBC
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Power Module (PN: 0G-PM50KD), Contactor (PN: LC1D65A6BDS304, LC1F150BD), Circuit Breaker (PN: JDF36250), Power Supply (PN: 0N-96782, 0N-96783), Fuse (PN: A330188), Switch (PN: LV431629), Static Bypass switch (0G-SBS100KD), Transformer (PN: TP-003-0457), Seismic kits (GVSOPT002, GVSOPT008)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1256	33.3	44.1	58.5	19.5	13.3	22.0

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2018)	1.45	1.0	1.5	2.32	1.74	1.33	0.53	
		2.00	0.0						

Test Mounting Details:



The UUT was rigid-base mounted using customer provided seismic kit (GVSOPT002 and GVSOPT008). The seismic kit mounting details can be found on the following page. M8 bolts were torqued to 21 Nm. M10 bolts were torqued to 42 Nm. 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

1801223-CR-001 R2



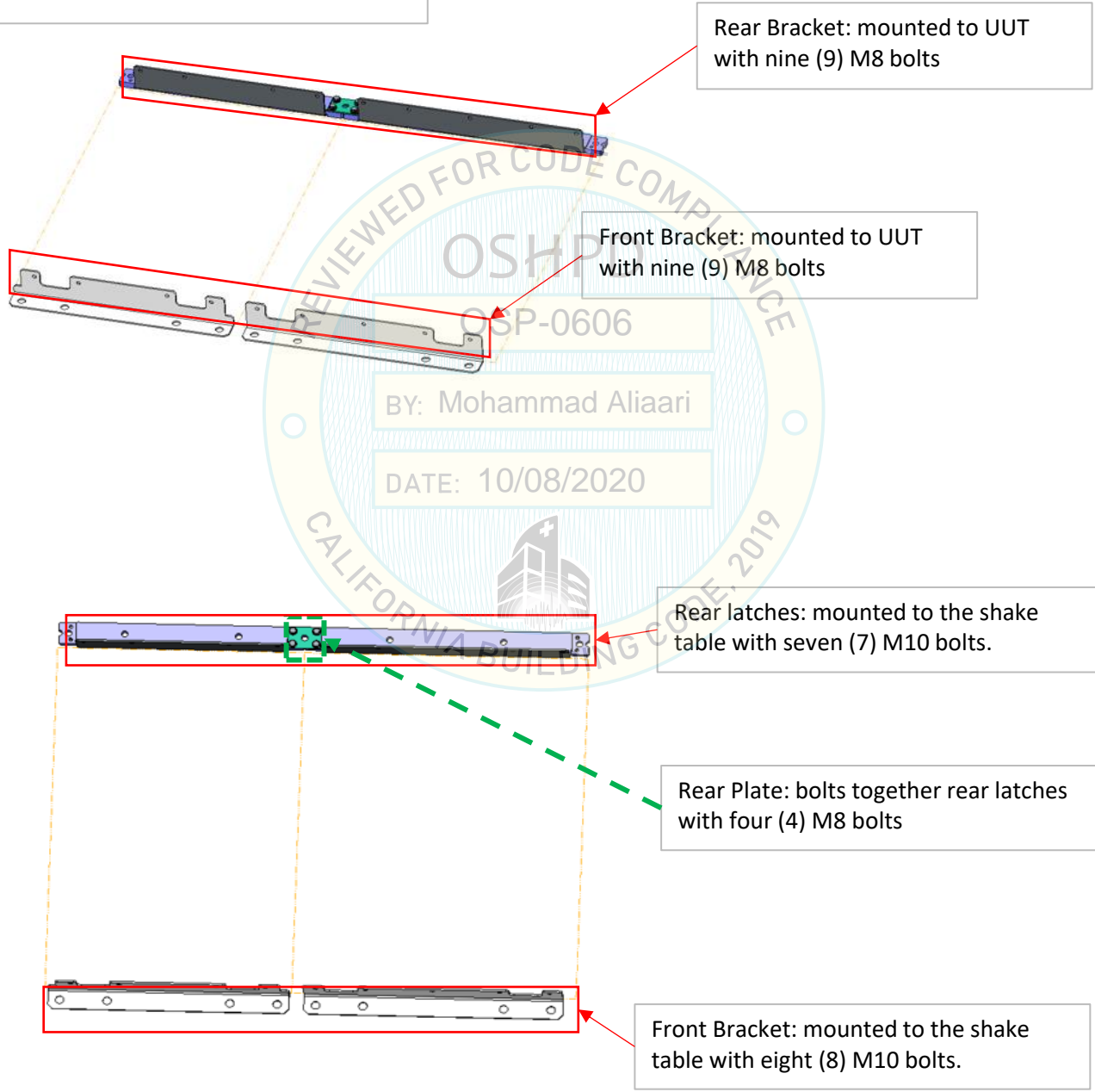
Manufacturer: Schneider Electric
Model Line: Galaxy VS
Model Number: GVSUPS25KFS w/GVSBPIT25

Serial Number: N/A

UUT 14

Seismic Mounting Kit Details:

Part Numbers: GVSOPT002 and GVSOPT008



BY: Mohammad Aliaari
DATE: 10/08/2020

UNIT UNDER TEST (UUT) SUMMARY SHEET



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Manufacturer: Schneider Electric	UUT 15
Model Line: Galaxy VS	
Model Number: GVSUPS100KGS w/GVSBPOT100	
Serial Number: N/A	

Product Construction Summary:
Galaxy VS 100kW UPS w/100kW MBC
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Power Modules (PN: 0G-PM50KD), Contactor (PN: LC1D65A6BDS304, LC1F150BD), Circuit Breaker (PN: JDF35250), Power Supply (PN: 0N-96782, 0N-96783), Fuse (PN: A330188), Switch (PN: LV431629), Static Bypass switch (PN: 0G-SBS100KD), Transformer (PN: TP-0100-0459), Seismic kit (PN: GVSOPT002, GVSOPT008), Kirk Key Kit (PN: GVSOPT007)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
1918	33.3	44.1	58.5	12.8	8.6	19.4

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2018)	1.45	1.0	1.5	2.32	1.74	1.33	0.53	
		2.00	0.0						

Test Mounting Details:



The UUT was rigid-base mounted using customer provided seismic kit (GVSOPT002 and GVSOPT008). The seismic kit mounting details can be found on the following page. M8 bolts were torqued to 21 Nm. M10 bolts were torqued to 42 Nm. 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



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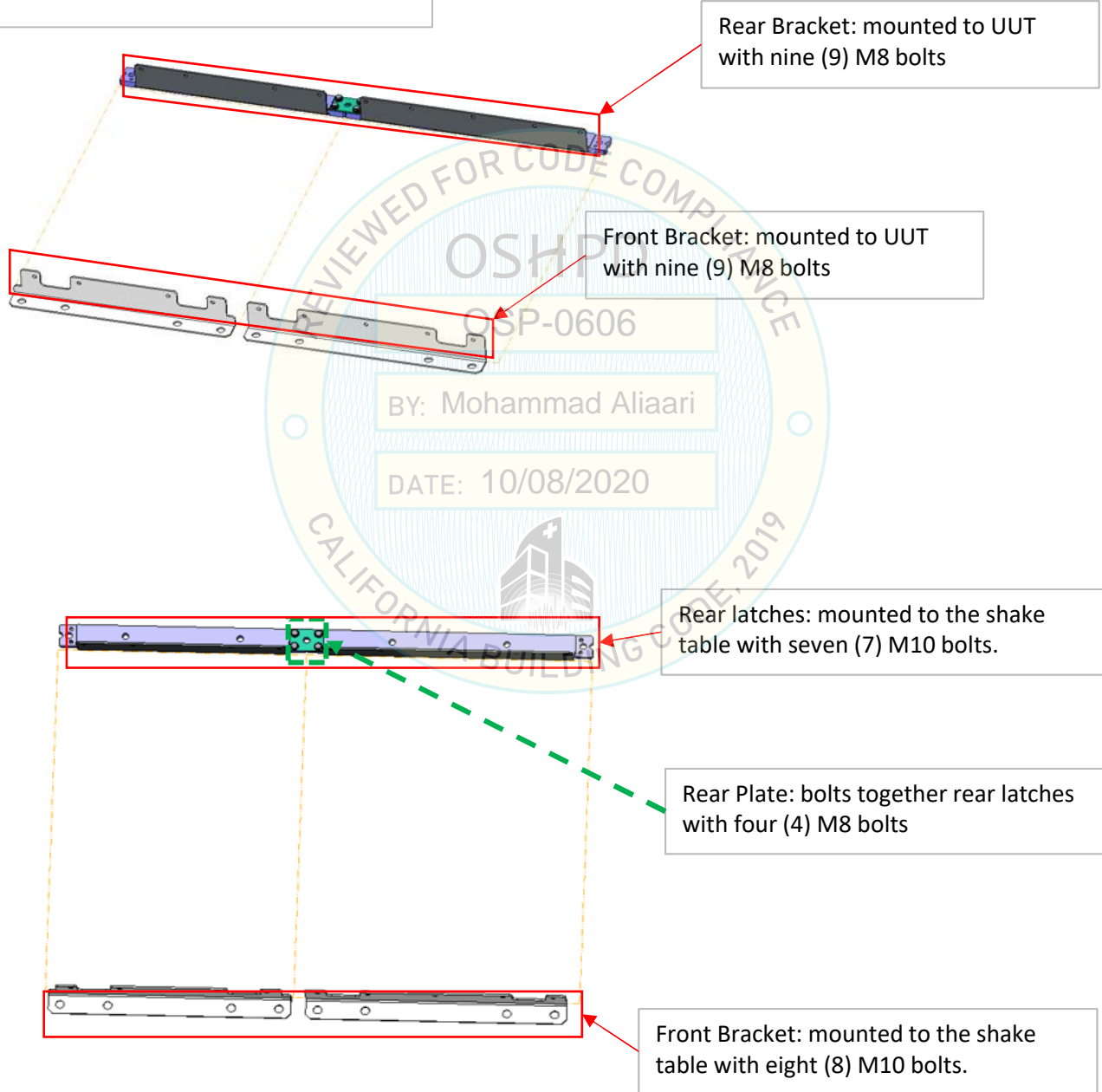
Manufacturer: Schneider Electric
Model Line: Galaxy VS
Model Number: GVSUPS100KGS w/GVSBPOT100

Serial Number: N/A

UUT 15

Seismic Mounting Kit Details:

Part Numbers: GVSOPT002 and GVSOPT008



UNIT UNDER TEST (UUT) SUMMARY SHEET



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Manufacturer: Schneider Electric	UUT 16
Model Line: Galaxy VS	
Model Number: GVSUPS50KB4D w/GVSBPOT50B	
Serial Number: QS1910121853/BD1913004116	

Product Construction Summary:
Galaxy VS Bravo 50kW UPS w/50kW MBC
1.5mm carbon steel frame and 1mm carbon steel panels.

Options/Subcomponent Summary:
Power Module (PN: 0G-PM50KD), I/O Assembly (PN: ON-96740), Circuit Breaker (PN: HJF36150CU31X, JJF36250CU31X, JDF36250), Power Supply (PN: PN: 0N-96782, 0N-96968, 0N-96783), Static Bypass switch (PN: 0G-SBS50KD), Transformer (PN: TP-0060-0547), Seismic kit (PN: GVSOPT002, GVSOPT008), Kirk Key Kit (PN: GVSOPT007), Cable Kit (PN: GVSOPT012, GVSOPT013)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
2546	33	44.1	58.5	11.3	9.2	24.1

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019	ICC-ES AC156 (2018)	1.45	1.0	1.5	2.32	1.74	1.07	0.43	
		1.60	0.0						

Test Mounting Details:



The UUT was rigid-base mounted using customer provided seismic kit (GVSOPT002 and GVSOPT008). The seismic kit mounting details can be found on the following page. M8 bolts were torqued to 21 Nm. M10 bolts were torqued to 42 Nm. 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

1801223-CR-001 R2



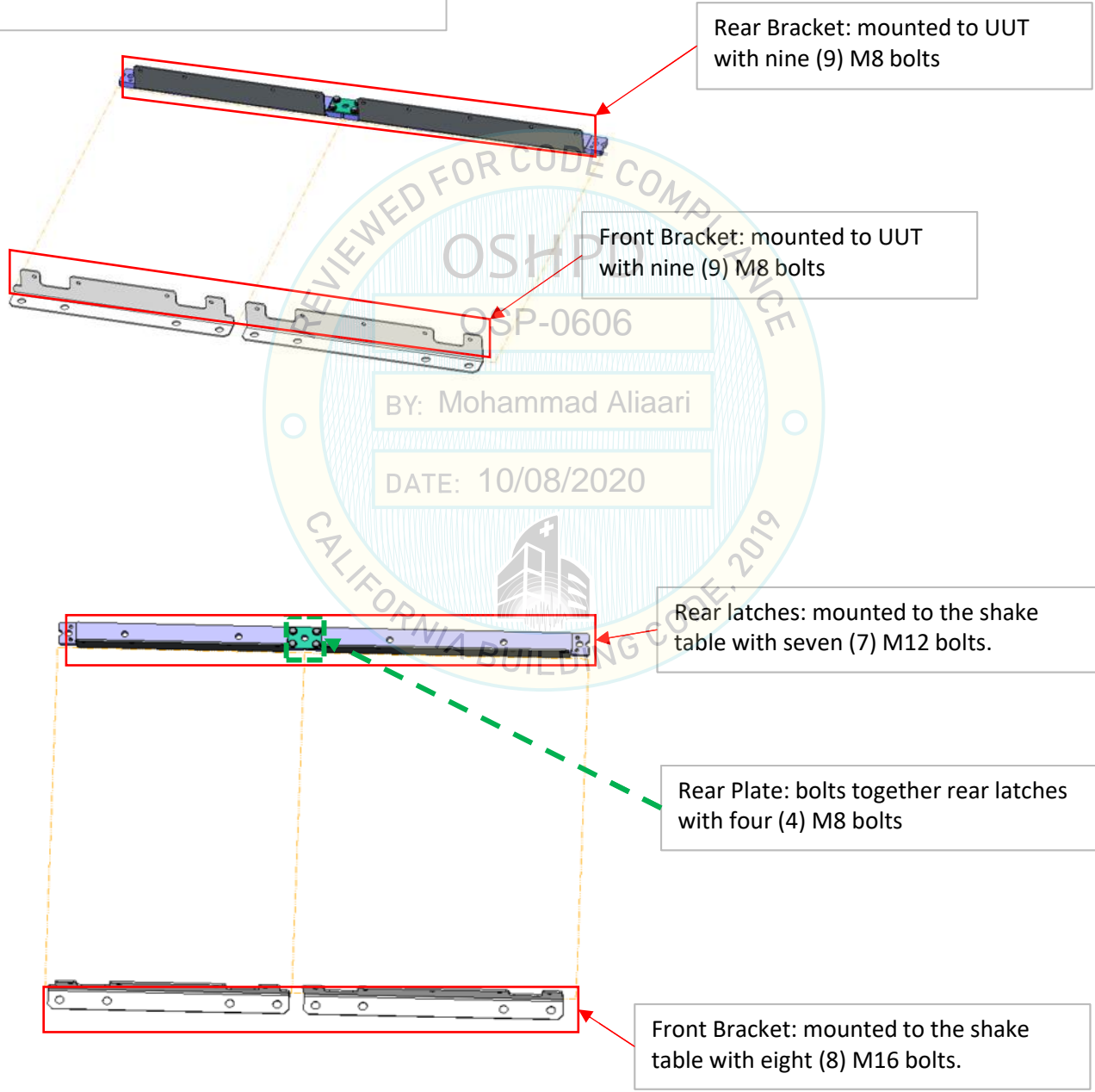
Manufacturer: Schneider Electric
Model Line: Galaxy VS
Model Number: GVSUPS50KB4D w/GVSBPOT50B

Serial Number: QS1910121853/BD1913004116

UUT 16

Seismic Mounting Kit Details:

Part Numbers: GVSOPT002 and GVSOPT008



BY: Mohammad Aliaari

DATE: 10/08/2020