

Title: Program Manager

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP-0755 **HCAI Special Seismic Certification Preapproval (OSP)** X New Type: Renewal **Manufacturer Information** Manufacturer: West-Com & TV, Inc. Manufacturer's Technical Representative: Bryan McFarlane Mailing Address: 780 Chadbourne Road, Suite D, Fairfield, CA 94534 Telephone: (707) 428-5902 Email: bmcfarlane@westcomtv.com **Product Information** Product Name: Electrical Control Panels on Life Safety/Critical Branch Product Type: Nurse Call Stations Product Model Number: Novus Connect General Description: Two-post server racks and cabinets populated with West-Com nurse call equipment. Mounting Description: Rigid, Floor/Wall Mounted None Tested Seismic Enhancements: **Applicant Information** Applicant Company Name: TRU Compliance, by Structural Integrity Associates Contact Person: Daniel Zentner Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702 Telephone: (541) 292-5839 Email: dzentner@structint.com



"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Re	sponsible for the Engineering and Test Report(s)
Company Name: STRUCTURAL INTEGRITY ASS	SOCIATES
Name: Mehrshad Ketabdar	California License Number: S6105
Mailing Address: 316 E Dexter St, Covina, CA 917	
Telephone: (669) 946-2838	Email: mketabdar@structint.com
Certification Method	
GR-63-Core X ICC-ES AC156	☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3
Other (Please Specify):	
	EOR CODE CO
Testing Laboratory	Mp.
Company Name: Pacific Earthquake Engineering F	Research Center (PEER)
Contact Person: Amarnath Kasalanati	William Washington Marchael William Z
Mailing Address: 1301 South 46th St., Bldg. 420, F	Richmond CA 94720-1729
Telephone: (510) 642-3437	Email: Amarnath1@berkeley.edu
Municipal	
\C\\DA	ATE: 07/17/2023







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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.44 (SDS = 2.0, z/h = 1); 1.13 (SDS = 2.5, z/h = 0)

SDS (Design spectral response acceleration at short period, g) = 2.0 at z/h=1, 2.5 at z/h=0

ap (Amplification factor) = 1

 R_p (Response modification factor) = 2.5

 Ω_0 (System overstrength factor) = 2.0

 I_p (Importance factor) = 1.5

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

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

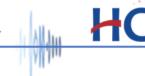
HCAI Approval (For Office Use Only) Approval Expires on 07/17/2029

Date: 7/17/2023 OSP-0755

Name: Mohammad Karim Title: Supervisor, Health Facilities

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

Condition of Approval (if applicable): DATE 07/17/2023



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX





Manufacturer:	West-Com & TV Inc.						TABLI	F 1
Model Line:	Novus Connect							<u> </u>
	struction Summary:							
Two-post server rack	populated with West-Co	om nurse ca	ll equipme	ent.				
Certified Options Sun	=		51 ·		_			
Tested two-post serve	er racks: Eaton SB852190	096FB and (Chatswort	n 13855-X0	3.			
Mounting Configurat	ion:		COL	1				
Base mounted - rigid	ion.	FOH	COL	E CO	1			
	nust be of similar configuratio	n and equivale	ent strength	and stiffness	to those test	ted.		
			YANVA		$\overline{}$	2.0 g z/h=	1.0	
Building Code: CBC 2	022	Seismic C	ertificatio	on Limits:	/VVVV	2.5 g z/h=	/ p:	= 1.5
	/4////	Dir	nensions	(in)5	Weight			T
Model Line	Model	Depth	Width	Height	(lbs.)	1,,	Notes	UUT
	WCTV-BMSR-E	BY: 150	hamma	d Karin	n ₂₃₂	Eaton rack	w/ equipment	1
Novus Connect	WCTV-DMSR-E	23.13	24.13	30.0	232	Latonrack	w/ equipment	1
novas connece	WCTV-BMSR-C	26.0	24.017	//284.03	265	Cha tsworth		2
	Z	D/ZOIOL.	211,0	7203.00		equipment		
			1					
	1							
		YA B	/// D1	NG				
			OILD.					
								+
								1

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX





Manufacturer:	West-Com & TV Inc.						TABLE	: ว
Model Line:	Novus Connect						IADLL	- 4
Certified Product Const	ruction Summary:							
Cabinet populated with	West-Com nurse call e	equipment.						
Certified Options Summ	nary:							
Chatsworth cabinet mod	dels as listed below.							
Mounting Configuration	1:	COR	COD)F Co				
Wall mounted - rigid	,	OFUI	**************************************		4			
Note: Installed mounting mus	t be of similar configu <mark>ratio</mark> r	and equivale	ent strength	and stiffness				
Building Code: CBC 2022	2	Seismic C	ertificatio	on Limits:	S _{DS} = S _{DS} =	_	/ n=	1.5
Model Line	Model	Dir	nensions	(in)5	Weight	N.	otes	TUU
Model Eme	I I I I I I I I I I I I I I I I I I I	Depth	Width	Height	(lbs.)			00.
Novus Connect –	WCTV-WMSR-26	BY _{12.0} 10	ha _{26.0} ma	id 26.0rin		13050-X13 cal equipment	oinet w/	4
Novus Connect	WCTV-WMSR-36	12.0E	26.017	7/236.03	127	13050-X23 cal equipment	oinet w/	3
			117 + 11					
				MAMA	941			
					D'			
		YA B	HILDI	NG				
			OILD					

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2200208-CR-001-R1



Manufacturer:West-Com & TV Inc.Table Description:Equipment Racks and CabinetsModel Line:Novus ConnectTABLE 3

Building Code: CBC 2022 Seismic Certification Limits: $S_{DS} = 2.0 \text{ g} \quad z/h = 1.0$ $S_{DS} = 2.0 \text{ g} \quad z/h = 0.0$

Building Code: CBC 2022	1		Seismic	Certification	on Limits:	$S_{DS} = 2.5 g z/h = 0.0$	$I_P = 1.5$	
Model Line	Model	Di	mension ((in)	Weight	E Material	Notes	UUT
(Manufacturer)	Model	Depth	Width	Height	(lbs.)	Material	Notes	001
Two Post Seismic Relay Rack (Eaton)	SB85219096FB	15.0	24.75	96.0	130	Carbon steel		1
SeismicFrame Two- Post Rack (Chatsworth)	13855-X03	15.0	24.0	84.0 BY: M	DSP-0 20178 20178	Carbon steel		2
ThinLine II Wall-Mount Cabinet	13050-X13	12.0	26.0	26.0	60	Carbon steel		4
(Chatsworth)	13050-X23	12.0	26.0	36.0	76	Carbon steel		3
			10	MANA				
				Win				
				AE	UILD	ING		

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2200208-CR-001-R1



Manufacturer: West-Com & TV Inc. Table Description: Electrical Subcomponents

Model Line: Novus Connect

TABLE 4

Building Code: CBC 2022 Seismic Certification Limits: $S_{DS} = 2.0 \text{ g} \quad z/h = 1.0$ $S_{DS} = 2.5 \text{ g} \quad z/h = 0.0$

			$3 p_{S} - 2.3 g = 2/11 - 0.0$		
Component Type	Manufacturer	Model	RCODE Description	Notes ¹	UUT
Controller	West-Com Nurse Call Systems	NV-SIPCNTR/PoE	PoE Embedded Controller, 5W	1.2 lb. For two-post rack installations: Maximum install height of RMU 11.	1,2,4
Network Switch	West-Com Nurse Call	NV-PoE48	PoE switch, 48 port, 100-240 VAC, 370VA	8.6 lb. For two-post rack installations: Maximum install height of RMU 7.	1,2,3,4
Network Switch	Systems	NV-PoE24	PoE switch, 24 port, 100-240 VAC, 185VA	8.6 lb. For two-post rack installations: Maximum install height of RMU 10.	1,2,4
Patch Panel	West-Com Nurse Call Systems	NV-PATCH DATE	24 port patch panel	1 lb. For two-post rack installations: Maximum install height of RMU 9.	1,2,3,4
UPS	Schneider Electric	SRT2200RMXLA	APC Smart-UPS, 1.8kW, 2.2kVA	55 lb. For two-post rack installations: Must be installed in bottom two RMUs.	1,2,3
		VIA	UILDING		

Notes:

1. RMU = Rack Mounting Unit. See UUT1 & UUT2 summary sheets for definition of RMU locations.





Manufa Model L								
UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _P
1	WCTV-BMSR-E - server rack (SB85219096FB) w/ equipment	2200208-TR-001	Pacific Earthquake Engineering Research Center (PEER)	2022	Yes	2.0 2.5	1.0 0.0	1.5
2	WCTV-BMSR-C - server rack (13855-X03) w/ equipment	2200208-TR-001	Pacific Earthquake Engineering Research Center (PEER)	2022	Yes	2.0 2.5	1.0 0.0	1.5
3	WCTV-WMSR-36 - wall cabinet (13050-X23) w/ equipment	2200208-TR-001	Pacific Earthquake Engineering Research Center (PEER)	2022	Yes	2.0 2.5	1.0 0.0	1.5
4	WCTV-WMSR-26 - wall cabinet (13050-X13) w/ equipment	2200208-TR-001	Pacific Earthquake Engineering Research Center (PEER)	2022	Yes	2.0 2.5	1.0 0.0	1.5
		o BY: Mol	nammad Karim					
		DATE:	07/17/2023	2022				
		ORNIAR		54.				
			ILDING					
Notes:	,					1		ı

2200208-CR-001-R1



Manufacturer: West-Com & TV Inc.

Model Line: Novus Connect

UUT 1

Model Number: WCTV-BMSR-E **Serial Number:** N/A

Product Construction Summary:

Eaton SB85219096FB two post rack (carbon steel) with subcomponents installed by West-Com & TV Inc.

Options/Subcomponent Summary:

Controller: NV-SIPCNTR/PoE (West-Com Nurse Call Systems); **Network Switch:** NV-PoE48 (x2, West-Com Nurse Call Systems), NV-PoE24 (West-Com Nurse Call Systems); **Patch Panel:** NV-PATCH (x5, West-Com Nurse Call Systems); **UPS:** SRT2200RMXLA (Schneider Electric). See subcomponent mounting locations on following page.

			UUT Pro	perties									
Weight		Dimension (in)	Mari Mari Mari Mari Mari Mari Mari Mari	Lowest Natural Frequency (Hz)									
(lbs.)	Depth	Width	OSFflei	OS Height 55		Front-Back		-Side	Vertical				
232	23.75	M (M) (96	6.0	15.	.48	11	.18	17	.29				
		UUT Highes	t Passed Se	ismic Run	Informa	tion							
Buildi	ng Code	Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)			
СВС	2022	ICC-ES AC	156 07/	72.0 2.5	3 1.0 0.0	1.5	3.20	2.40	1.67	0.67			

Test Mounting Details:



UUT1 is base mounted - rigid using (4) 3/4" grade 5 bolts with square washers.

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

WCTV-BMSR-E

2200208-CR-001-R1

Model Number:



Manufacturer: West-Com & TV Inc.

Model Line: Novus Connect UUT 1

Serial Number:

N/A

Subcomponent Mounting Locations:

	Rac	k Configuration	
Positio		EATON 385219096FB	Position
on Ra	- N		on Rack
	49		4
	48		4
	47		4
	46		4
	45 44	CODF	4
	43	VANADO VANA	1 4
	42	CODE CO	4
(A)	41		4
1.17	40		4
44/	39		3
17 /	38	D 0755	3
	37	SP-0755	3
	36		3
WAXXX.	35		3
	24 : Moha	ammad Karin	1 2
<u> </u>	33		3
	32		3
	31 30 TE:	07/17/2023	3
7 . 1	29		2
1	28		2
1	27		2
	26		2
	25 24		2
	24	DANIE CO	2
	23 22 BU	ILDING C	2 2 2 2 2 2 2
	22	ILDI.	2
	21		2
	20 19		2
	18		1
	17		1
	16		1
	15		1
	14		1.
	13		1:
	12		1
		SIP CONTROLLER	1
	10	24 PORT SWITCH	1
	9	PATCH PANEL	
	8	PATCH PANEL	
	7	48 PORT SWITCH PATCH PANEL	
	5	PATCH PANEL	
		48 PORT SWITCH	
	3	PATCH PANEL	
	2	UPS	
	1	SRT2200RMXLA	

2200208-CR-001-R1



Manufacturer: West-Com & TV Inc.

Model Line: Novus Connect

UUT 2

Model Number: WCTV-BMSR-C Serial Number: N/A

Product Construction Summary:

Chatsworth 13855-X03 two post rack (carbon steel) with subcomponents installed by West-Com & TV Inc.

Options/Subcomponent Summary:

Controller: NV-SIPCNTR/PoE (West-Com Nurse Call Systems); **Network Switch:** NV-PoE48 (x2, West-Com Nurse Call Systems), NV-PoE24 (West-Com Nurse Call Systems); **Patch Panel:** NV-PATCH (x5, West-Com Nurse Call Systems); **UPS:** SRT2200RMXLA (Schneider Electric). See subcomponent mounting locations on following page.

			UUT Pro	operties		7				
Weight		Lowes	t Natural	Frequen	cy (Hz)					
(lbs.)	Depth	Width	OSFile	OSHeight 55		Front-Back		-Side	Vertical	
265	265 26.0 24.0				22	.69	15	.08	15	.10
		UUT Highe:	st Passed Se	eismic Run	Informa	tion				
Buildi	ng Code	Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
СВС	2022	ICC-ES AC	156 07/	17 ^{2.0} 2.5	3 1.0 0.0	1.5	3.20	2.40	1.67	0.67

Test Mounting Details:



UUT2 is base mounted - rigid using (4) 3/4" grade 5 bolts with square washers.

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

WCTV-BMSR-C

2200208-CR-001-R1

Model Number:



Manufacturer: West-Com & TV Inc.

Model Line: Novus Connect

UUT 2

Serial Number:

N/A

Subcomponent Mounting Locations:

	Position on Rack	CHATSWORTH 13855-X03	Position on Rack
	44		44
	43		43
	42		42
	41	OB CODE	41
	40	OR COLUMN COLUMN	40
	39	OR CODE COMB	39
	38		38
	36		36
1	35		34
4	24	OSP-0755	35
2	33	001-0700	33
	32		32
	B 31	Mohammad Karim	31
	30		30
	29		29 28 27 20 25 22 22 22 22 22 22
	28	TF: 07/17/2023	28
V	27	L. 01/11/2020	27
	26 25		20
	25		2
	24		24
	24 23 22		23
	1 22	Dienary	22
	21	BUILDING COV	2
	20		20
	19 18		19
	17		18
			1,
	16 15		1/
	14		12
	13		13
	12		16 15 12 13
	11	SIP CONTROLLER	11
	10	24 PORT SWITCH	10
	9	PATCH PANEL	9
	8 7	PATCH PANEL	8
	7	48 PORT SWITCH	7
	6 5 4 3 2	PATCH PANEL	
	5	PATCH PANEL	
	4	48 PORT SWITCH	
	3	PATCH PANEL UPS	
	2	SRT2200RMXLA	\$ \\ \frac{\xi}{2} \\ \

2200208-CR-001-R1



UUT 3

Manufacturer: West-Com & TV Inc.

Model Line: Novus Connect

WCTV-WMSR-36

Serial Number: N/A

Product Construction Summary:

Model Number:

Chatsworth 13050-X23 cabinet (carbon steel) with subcomponents installed by West-Com & TV Inc.

Options/Subcomponent Summary:

Network Switch: NV-PoE48 (West-Com Nurse Call Systems); Patch Panel: NV-PATCH (x2, West-Com Nurse Call Systems); UPS:

SRT2200RMXLA (Schneider Electric)

			U	IUT Pro	perties		D						
Weight Dimension (in) Lowest Natural Frequen											ıcy (Hz)		
(lbs.)	Depth	Depth Width OS Height 5					Front-Back Side-Side			Vertical			
132	12.0	26.0	0	36	5.0	N	/A	N	/A	N	/A		
		UUT	Highest Pas	sed Se	ismic Run	Informa	tion						
Buildi	ng Code	Te	st Criteria		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
СВС	2022	ICC	C-ES AC156	07/	72.0	3 1.0 0.0	1.5	3.20	2.40	1.67	0.67		

Test Mounting Details:



UUT3 is wall mounted - rigid using (4) 1/2" grade 5 bolts with washers and spring nuts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

2200208-CR-001-R1



Manufacturer: West-Com & TV Inc.

Model Line: Novus Connect

UUT 4

Model Number: WCTV-WMSR-26 Serial Number: N/A

Product Construction Summary:

Chatsworth 13050-X13 cabinet (carbon steel) with subcomponents installed by West-Com & TV Inc.

Options/Subcomponent Summary:

Controller: NV-SIPCNTR/PoE (West-Com Nurse Call Systems); **Network Switch:** NV-PoE48 (West-Com Nurse Call Systems), NV-PoE24 (West-Com Nurse Call Systems); **Patch Panel:** NV-PATCH (x3, West-Com Nurse Call Systems)

		45	UUT P	roperties		4				
Weight		Dimension (in	1)	-1.1-1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		Lowes	t Natural	Frequen	cy (Hz)	
(lbs.)	Depth	Width	OSF	OS Height 55		Front-Back		-Side	Vertical	
77	12.0	26.0		26.0 N/A			N	/A	N	/A
		UUT Highe	est Passed :	Seismic Run	Informa	tion				
Buildi	ng Code	Test Cri	teria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
СВС	2022	ICC-ES A	C156 07	/ 172.0 2.5	3 1.0	1.5	3.20	2.40	1.67	0.67

Test Mounting Details:



UUT4 is wall mounted - rigid using (4) 1/2" grade 5 bolts with washers and spring nuts.

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