



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0755

HCAI Special Seismic Certification Preapproval (OSP)

Type: [X] New [] 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

Tested Seismic Enhancements: None

Applicant Information

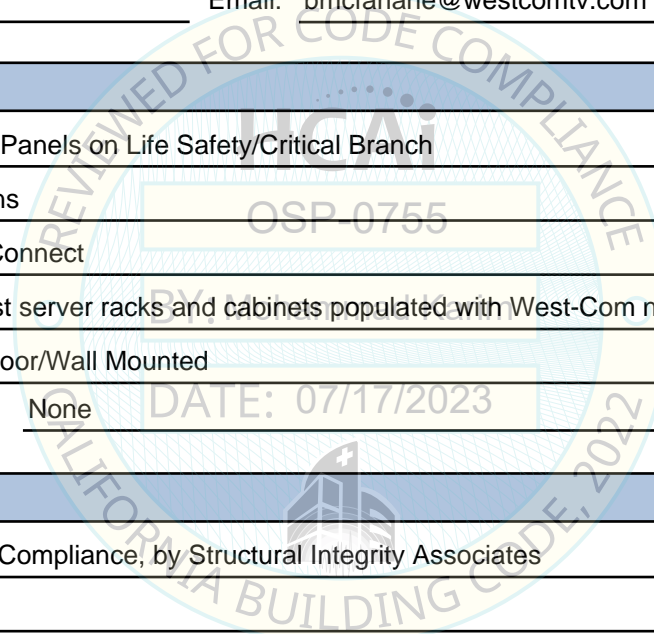
Applicant Company Name: TRU Compliance, by Structural Integrity Associates

Contact Person: Daniel Zentner

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

Telephone: (541) 292-5839 Email: dzentner@structint.com

Title: Program Manager





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION**

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

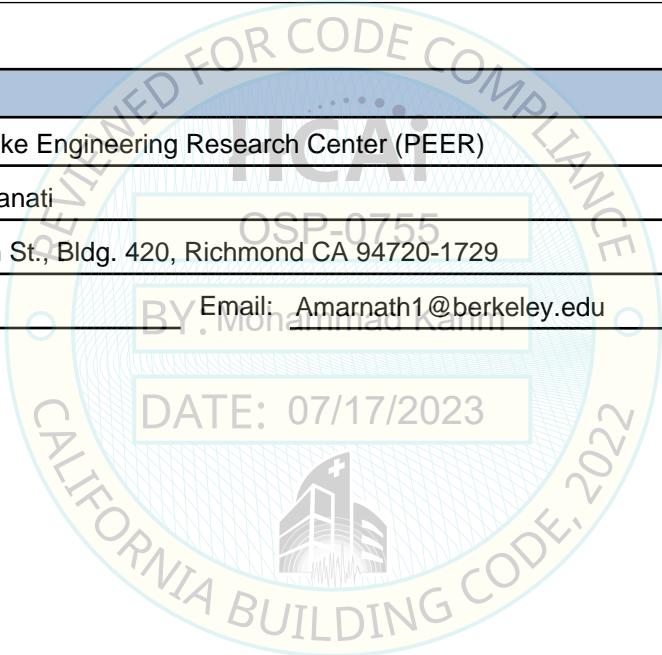
Company Name: STRUCTURAL INTEGRITY ASSOCIATES
Name: Mehrshad Ketabdar California License Number: S6105
Mailing Address: 316 E Dexter St, Covina, CA 91723
Telephone: (669) 946-2838 Email: mketabdar@structint.com

Certification Method

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

Testing Laboratory

Company Name: Pacific Earthquake Engineering Research Center (PEER)
Contact Person: Amarnath Kasalanati
Mailing Address: 1301 South 46th St., Bldg. 420, Richmond CA 94720-1729
Telephone: (510) 642-3437 Email: Amarnath1@berkeley.edu





**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

a_p (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

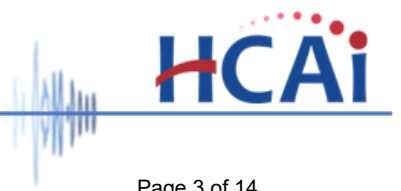
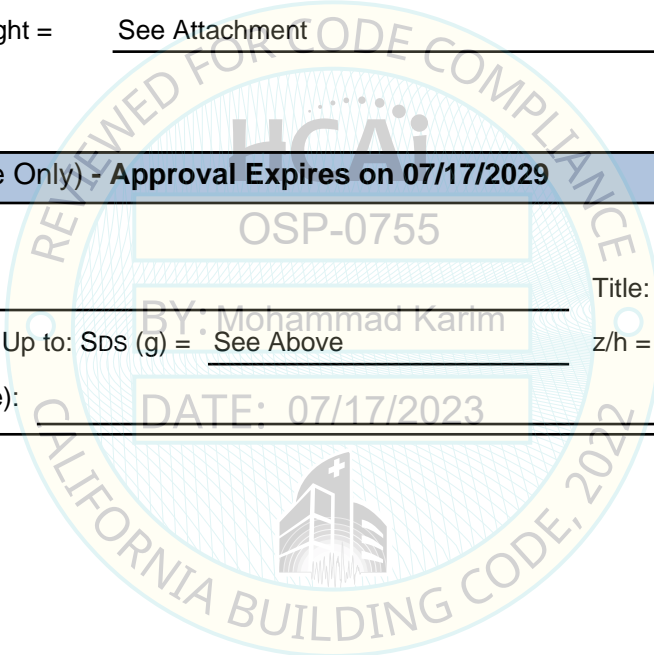
HCAI Approval (For Office Use Only) - Approval Expires on 07/17/2029

Date: 7/17/2023

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



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200208-CR-001-R1



| Manufacturer: West-Com & TV Inc. Model Line: Novus Connect | | | | | | TABLE 1 | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------|-------|--------|---------------|------------------------------|-------------|
| Certified Product Construction Summary: Two-post server rack populated with West-Com nurse call equipment. | | | | | | | |
| Certified Options Summary: Tested two-post server racks: Eaton SB85219096FB and Chatsworth 13855-X03. | | | | | | | |
| Mounting Configuration: Base mounted - rigid Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested. | | | | | | | |
| Building Code: CBC 2022 | | Seismic Certification Limits: | | | | $S_{DS} = 2.0g$ $z/h = 1.0$ | $I_p = 1.5$ |
| | | | | | | $S_{DS} = 2.5g$ $z/h = 0.0$ | |
| Model Line | Model | Dimensions (in) | | | Weight (lbs.) | Notes | UUT |
| | | Depth | Width | Height | | | |
| Novus Connect | WCTV-BMSR-E | 23.75 | 24.75 | 96.0 | 232 | Eaton rack w/ equipment | 1 |
| | WCTV-BMSR-C | 26.0 | 24.0 | 84.0 | 265 | Chatsworth rack w/ equipment | 2 |
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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2200208-CR-001-R1



| | |
|-----------------------------------------|----------------|
| Manufacturer: West-Com & TV Inc. | TABLE 2 |
| Model Line: Novus Connect | |

Certified Product Construction Summary:
Cabinet populated with West-Com nurse call equipment.

Certified Options Summary:
Chatsworth cabinet models as listed below.

Mounting Configuration:
Wall mounted - rigid
Note: Installed mounting must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 **Seismic Certification Limits:** $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_P = 1.5$
 $S_{DS} = 2.5 g$ $z/h = 0.0$

| Model Line | Model | Dimensions (in) | | | Weight (lbs.) | Notes | UUT |
|---------------|--------------|-----------------|-------|--------|---------------|--------------------------------|-----|
| | | Depth | Width | Height | | | |
| Novus Connect | WCTV-WMSR-26 | 12.0 | 26.0 | 26.0 | 77 | 13050-X13 cabinet w/ equipment | 4 |
| | WCTV-WMSR-36 | 12.0 | 26.0 | 36.0 | 132 | 13050-X23 cabinet w/ equipment | 3 |
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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

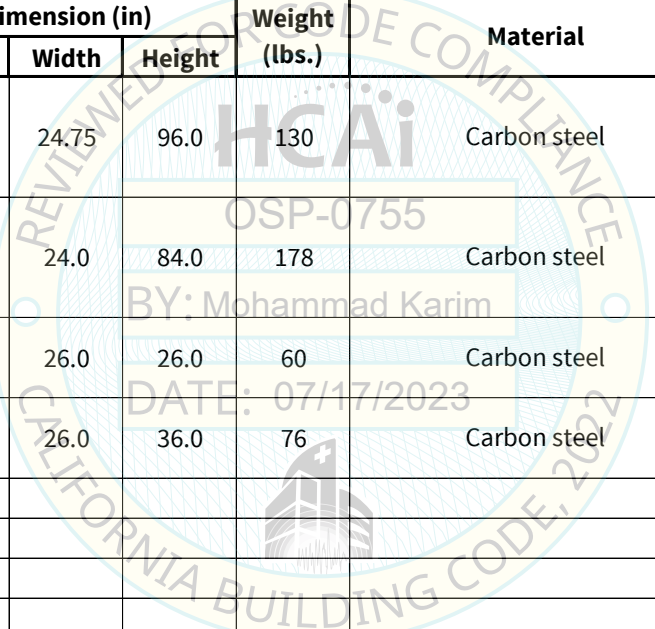
2200208-CR-001-R1



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|----------------------|--------------------|---------------------------|------------------------------|----------------|
| Manufacturer: | West-Com & TV Inc. | Table Description: | Equipment Racks and Cabinets | TABLE 3 |
| Model Line: | Novus Connect | | | |

Building Code: CBC 2022 **Seismic Certification Limits:** $S_{DS} = 2.0g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 2.5g$ $z/h = 0.0$

| Model Line (Manufacturer) | Model | Dimension (in) | | | Weight (lbs.) | Material | Notes | UUT |
|---------------------------------------------|--------------|----------------|-------|--------|------------------|--------------|-------|-----|
| | | Depth | Width | Height | | | | |
| 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 | 178 | Carbon steel | | 2 |
| ThinLine II Wall-Mount Cabinet (Chatsworth) | 13050-X13 | 12.0 | 26.0 | 26.0 | 60 | Carbon steel | | 4 |
| | 13050-X23 | 12.0 | 26.0 | 36.0 | 76 | Carbon steel | | 3 |
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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

2200208-CR-001-R1



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|-----------------------------------------|----------------------------------------------------|----------------|
| Manufacturer: West-Com & TV Inc. | Table Description: Electrical Subcomponents | TABLE 4 |
| Model Line: Novus Connect | | |

Building Code: CBC 2022 **Seismic Certification Limits:** $S_{DS} = 2.0g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 2.5g$ $z/h = 0.0$

| Component Type | Manufacturer | Model | 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 Systems | 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 |
| | | 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 | 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 |
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Notes:
1. RMU = Rack Mounting Unit. See UUT1 & UUT2 summary sheets for definition of RMU locations.

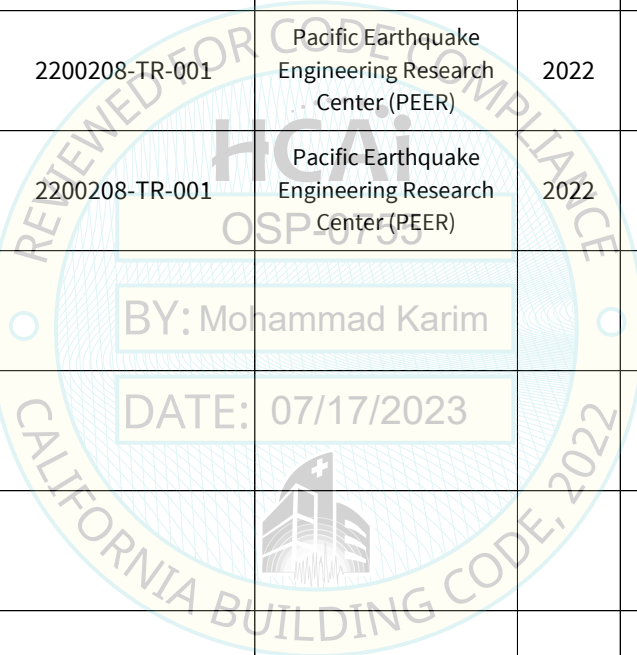
UNIT UNDER TEST (UUT) SUMMARY SHEET

2200208-CR-001-R1



Manufacturer: West-Com & TV Inc.
Model Line: Novus Connect

| 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 |
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Notes:

UNIT UNDER TEST (UUT) SUMMARY SHEET

2200208-CR-001-R1



| | |
|------------------------------------------------------------|--------------|
| Manufacturer: West-Com & TV Inc. | UUT 1 |
| Model Line: Novus Connect | |
| 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-SIPCNTN/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.

| <i>UUT Properties</i> | | | | | | |
|-----------------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 232 | 23.75 | 24.75 | 96.0 | 15.48 | 11.18 | 17.29 |

| <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 2022 | ICC-ES AC156 | 2.0 2.5 | 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.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2200208-CR-001-R1



Manufacturer: West-Com & TV Inc.

Model Line: Novus Connect

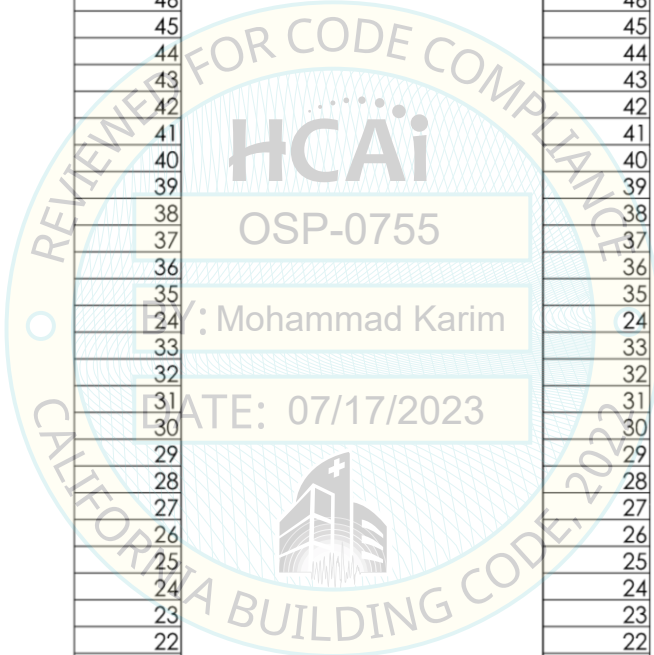
Model Number: WCTV-BMSR-E

Serial Number: N/A

UUT 1

Subcomponent Mounting Locations:

| Rack Configuration | | |
|--------------------|-----------------------------|------------------|
| Position on Rack | EATON SB85219096FB | Position on Rack |
| 49 | | 49 |
| 48 | | 48 |
| 47 | | 47 |
| 46 | | 46 |
| 45 | | 45 |
| 44 | | 44 |
| 43 | | 43 |
| 42 | | 42 |
| 41 | | 41 |
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| 16 | | 16 |
| 15 | | 15 |
| 14 | | 14 |
| 13 | | 13 |
| 12 | | 12 |
| 11 | SIP CONTROLLER | 11 |
| 10 | 24 PORT SWITCH | 10 |
| 9 | PATCH PANEL | 9 |
| 8 | PATCH PANEL | 8 |
| 7 | 48 PORT SWITCH | 7 |
| 6 | PATCH PANEL | 6 |
| 5 | PATCH PANEL | 5 |
| 4 | 48 PORT SWITCH | 4 |
| 3 | PATCH PANEL | 3 |
| 2 | UPS | 2 |
| 1 | SRT2200RMLA | 1 |



UNIT UNDER TEST (UUT) SUMMARY SHEET

2200208-CR-001-R1



| | |
|------------------------------------------------------------|--------------|
| Manufacturer: West-Com & TV Inc. | UUT 2 |
| Model Line: Novus Connect | |
| 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-SIPCNT/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 Properties

| Weight (lbs.) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|---------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 265 | 26.0 | 24.0 | 84.0 | 22.69 | 15.08 | 15.10 |

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 2022 | ICC-ES AC156 | 2.0 | 1.0 | 1.5 | 3.20 | 2.40 | 1.67 | 0.67 |
| | | 2.5 | 0.0 | | | | | |

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.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2200208-CR-001-R1

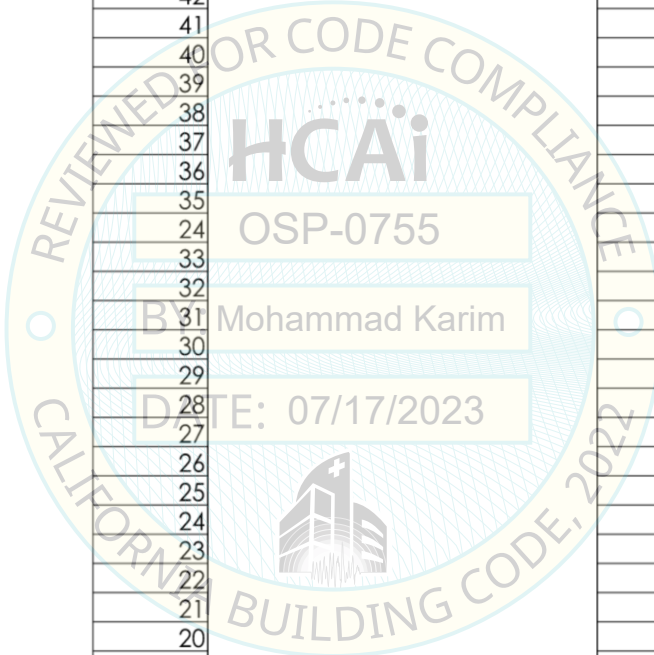


Manufacturer: West-Com & TV Inc.
Model Line: Novus Connect
Model Number: WCTV-BMSR-C **Serial Number:** N/A

UUT 2

Subcomponent Mounting Locations:

| Rack Configuration | | |
|--------------------|----------------------|------------------|
| Position on Rack | CHATSWORTH 13855-X03 | Position on Rack |
| 44 | | 44 |
| 43 | | 43 |
| 42 | | 42 |
| 41 | | 41 |
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| 31 | Mohammad Karim | 31 |
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| 15 | | 15 |
| 14 | | 14 |
| 13 | | 13 |
| 12 | | 12 |
| 11 | SIP CONTROLLER | 11 |
| 10 | 24 PORT SWITCH | 10 |
| 9 | PATCH PANEL | 9 |
| 8 | PATCH PANEL | 8 |
| 7 | 48 PORT SWITCH | 7 |
| 6 | PATCH PANEL | 6 |
| 5 | PATCH PANEL | 5 |
| 4 | 48 PORT SWITCH | 4 |
| 3 | PATCH PANEL | 3 |
| 2 | UPS | 2 |
| 1 | SRT2200RMXLA | 1 |



UNIT UNDER TEST (UUT) SUMMARY SHEET

2200208-CR-001-R1



| | |
|-------------------------------------------------------------|--------------|
| Manufacturer: West-Com & TV Inc. | UUT 3 |
| Model Line: Novus Connect | |
| Model Number: WCTV-WMSR-36 Serial Number: N/A | |

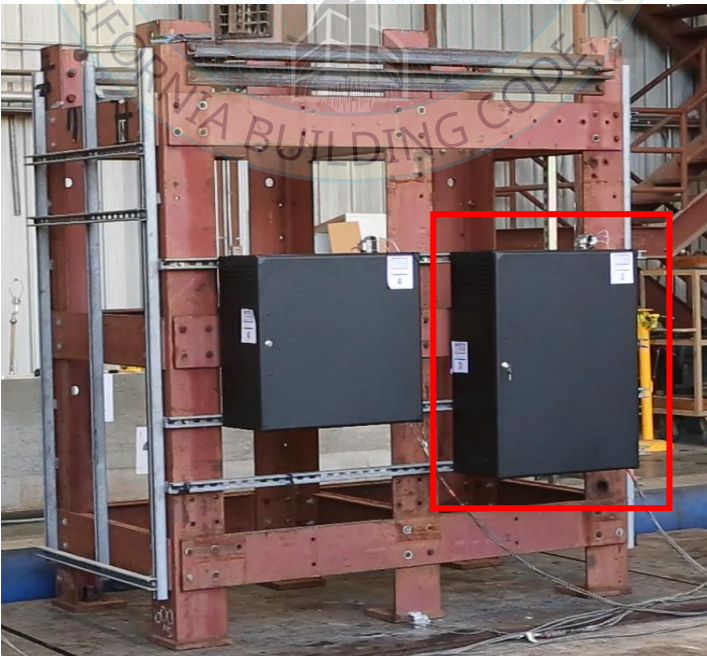
Product Construction Summary:
Chatsworth 13050-X23 cabinet (carbon steel) with subcomponents installed by West-Com & TV Inc.

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)

| <i>UUT Properties</i> | | | | | | |
|-----------------------|----------------|-------|--------|-------------------------------|-----------|----------|
| Weight (lbs.) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 132 | 12.0 | 26.0 | 36.0 | 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 2022 | ICC-ESAC156 | 2.0 | 1.0 | 1.5 | 3.20 | 2.40 | 1.67 | 0.67 |
| | | 2.5 | 0.0 | | | | | |

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.

UNIT UNDER TEST (UUT) SUMMARY SHEET



2200208-CR-001-R1

| | |
|-------------------------------------------------------------|--------------|
| Manufacturer: West-Com & TV Inc. | UUT 4 |
| Model Line: Novus Connect | |
| 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)

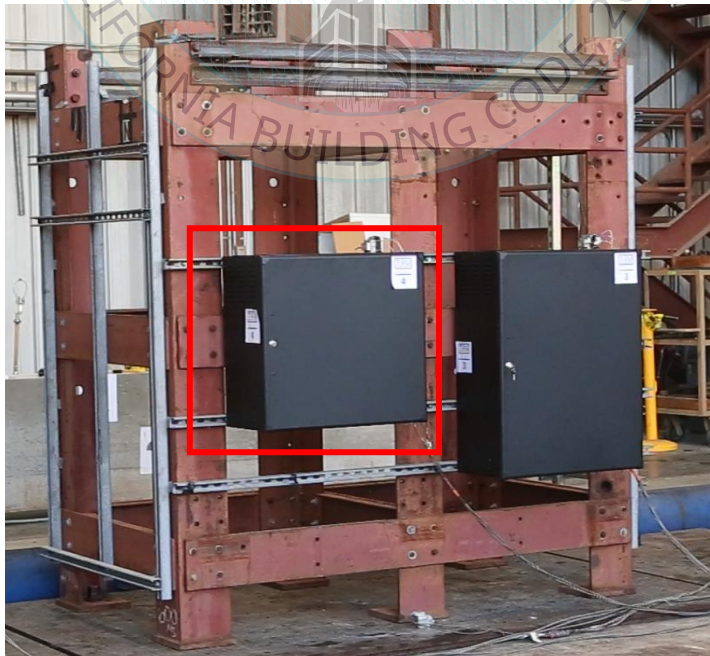
UUT Properties

| Weight (lbs.) | Dimension (in) | | | Lowest Natural Frequency (Hz) | | |
|---------------|----------------|-------|--------|-------------------------------|-----------|----------|
| | Depth | Width | Height | Front-Back | Side-Side | Vertical |
| 77 | 12.0 | 26.0 | 26.0 | 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 2022 | ICC-ESAC156 | 2.0 | 1.0 | 1.5 | 3.20 | 2.40 | 1.67 | 0.67 |
| | | 2.5 | 0.0 | | | | | |

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.