



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0199

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Schneider Electric

Manufacturer's Technical Representative: Patrick Holt

Mailing Address: 1650 West Crosby Road, Carrollton, TX 75006

Telephone: (972) 207-9772 Email: patrick.holt@se.com

Product Information

Product Name: Temperature Control Panels

Product Model Number(s): See Attachment

Product Category: Industrial Control Panels

Product Sub-Category: HVAC Control Panels

General Description: Temperature control panels containing controllers and networking equipment for the management of HVAC systems.

Mounting Description: Wall Mounted Rigid

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: Manwill Engineering LLC

Contact Person: Derek Manwill

Mailing Address: PO Box 1194, Bend, OR 97709

Telephone: (541) 241-2102 Email: derek@manwillse.com

Title: President



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: MANWILL ENGINEERING LLC

Name: Derek Manwill

California License Number: S6266

Mailing Address: PO Box 1194, Bend, OR 97709

Telephone: (541) 241-2102

Email: derek@manwillse.com

Certification Method

☐ GR-63-Core

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify): _____

Testing Laboratory

Company Name: ELEMENT (ELMT)

Contact Person: Rajnish Nand

Mailing Address: 38995 Cherry Street, Newark CA 94560

Telephone: (510) 578-3500

Email: rajnish.nand@element.com

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657

Email: jeremy@etldallas.com



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Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

Horizontal (A Flx-H), $g =$ 3.20 (A Rig-H), $g =$ 2.15

Vertical (A Flx-V), $g =$ 1.49 (A Rig-V), $g =$ 0.60

S_{DS} (Design spectral response acceleration at short period, g) = 2.00 ($z/h = 1$); 2.23 ($z/h = 0$)

H_f (Force amplification height factor) = 1 @ $z/h = 0$; 3.5 @ $z/h = 1$

R_u (Structure ductility reduction factor) = 1 @ $z/h = 0$; 1.3 @ $z/h = 1$

I_p (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 10/03/2031

Date: 10/3/2025

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____

OSP-0199

BY: Mohammad Karim

DATE: 10/03/2025

ATTACHMENT 1: CERTIFIED COMPONENTS

SPECIAL SEISMIC CERTIFICATION

SCHNEIDER ELECTRIC
Temperature Control Panels

TABLE 1

Mounting: Wall Mounted Rigid.	S _{DS} (g)	H _f / R _μ	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	I _p
	2.00	3.5 / 1.3	3.20	2.15	1.49	0.60	1.5
	2.23	1.0 / 1.0					

Product Construction: Carbon steel enclosure.

Options/Subcomponents: NEMA 1, NEMA 3R, NEMA 4, or NEMA 12 enclosures as listed in Table 2. Enclosures may contain any combination of subcomponents listed in Table 3 to create a complete control panel. The total weight of the complete control panel must be less than or equal to the maximum weights listed for the selected enclosure in Table 1.

Substitutions: Subcomponents weighing less than 10-lb may be substituted per CBC 1705A.14.3.1 Exception 7, provided they meet the five listed requirements in that section.

Model Number	Dimensions (in)			Max. Wt. (lb)	Description / Notes	Basis
	Depth	Width	Height			
Temperature Control Panels						
CUSTOM-8X8X6	6.0	8.0	8.0	12		UUT 1
...	...	...	...	...	Interpolated sizes	INTERP
CUSTOM-12X16X6	6.0	12.0	16.0	21		UUT 4
...	...	...	...	...	Interpolated sizes	INTERP
CUSTOM-24X24X8	7.9	23.6	23.6	53		UUT 8
...	...	...	...	...	Interpolated sizes	INTERP
CUSTOM-32X39X10	9.8	31.5	39.4	109		UUT 9
...	...	...	...	...	Interpolated sizes	INTERP
CUSTOM-30X48X10	10.0	30.0	48.0	153	UUT 5 = 133lb, UUT 7 = 153lb	UUT 5,7
...	...	...	...	...	Interpolated sizes	INTERP
CUSTOM-32X48X12	11.8	31.5	47.2	159		UUT 10
...	...	...	...	...	Interpolated sizes	INTERP
CUSTOM-36X48X17	17.3	36.0	48.0	246		UUT 2
...	...	...	...	...	Interpolated sizes	INTERP
CUSTOM-36X60X12	12.0	36.0	60.0	321		UUT 6

ATTACHMENT 2: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

SCHNEIDER ELECTRIC
Temperature Control Panels

TABLE 2 - ENCLOSURES

Mounting: Wall Mounted Rigid.	S _{DS} (g)	H _f / R _μ	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	I _p
	2.00	3.5 / 1.3	3.20	2.15	1.49	0.60	1.5
	2.23	1.0 / 1.0					

Construction/Options: Model number uniquely identifies manufacturer, materials, and configuration of subcomponents.

NEMA Rating: NEMA 1, 3R, 4, and 12 enclosures have been tested. The Schneider Electric enclosures are rated for all of the following: NEMA 1/2/3/3R/4/4X/5/12/13.

Model Number	Dimensions (in)			Max. Wt. (lb)	Description / Notes	Basis
	Depth	Width	Height			
Type: Enclosure - Mfr: Schneider Electric - Material: Carbon Steel						
SEBOX121206	5.9	11.8	11.8	14	NEMA 1/2/3/3R/4/4X/5/12/13	EXTRAP
SEBOX121206P	5.9	11.8	11.8	16	Same as above w/ perforated panel	EXTRAP
SEBOX121806	5.9	17.7	11.8	17	NEMA 1/2/3/3R/4/4X/5/12/13	EXTRAP
SEBOX121806P	5.9	17.7	11.8	19	Same as above w/ perforated panel	EXTRAP
SEBOX161608	7.9	15.6	15.6	18	NEMA 1/2/3/3R/4/4X/5/12/13	EXTRAP
SEBOX161608P	7.9	15.6	15.6	20	Same as above w/ perforated panel	EXTRAP
SEBOX202010	9.8	19.7	19.7	28	NEMA 1/2/3/3R/4/4X/5/12/13	EXTRAP
SEBOX202010P	9.8	19.7	19.7	32	Same as above w/ perforated panel	EXTRAP
SEBOX242408	7.9	23.6	23.6	30	NEMA 1/2/3/3R/4/4X/5/12/13	EXTRAP
SEBOX242408P	7.9	23.6	23.6	38	Same as above w/ perforated panel	UUT 8
SEBOX242410	9.8	23.6	23.6	33	NEMA 1/2/3/3R/4/4X/5/12/13	INTERP
SEBOX242410P	9.8	23.6	23.6	39	Same as above w/ perforated panel	INTERP
SEBOX322410	9.8	23.6	31.5	44	NEMA 1/2/3/3R/4/4X/5/12/13	INTERP
SEBOX322410P	9.8	23.6	31.5	53	Same as above w/ perforated panel	INTERP
SEBOX392410	9.8	23.6	39.4	63	NEMA 1/2/3/3R/4/4X/5/12/13	INTERP
SEBOX392410P	9.8	23.6	39.4	72	Same as above w/ perforated panel	INTERP
SEBOX323212	11.8	31.5	31.5	64	NEMA 1/2/3/3R/4/4X/5/12/13	INTERP
SEBOX323212P	11.8	31.5	31.5	78	Same as above w/ perforated panel	INTERP
SEBOX393210	9.8	31.5	39.4	76	NEMA 1/2/3/3R/4/4X/5/12/13	INTERP
SEBOX393210P	9.8	31.5	39.4	87	Same as above w/ perforated panel	UUT 9
SEBOX483212	11.8	31.5	47.2	99	NEMA 1/2/3/3R/4/4X/5/12/13	INTERP
SEBOX483212P	11.8	31.5	47.2	116	Same as above w/ perforated panel	UUT 10
Type: Enclosure - Mfr: Hoffman - Material: Carbon Steel						
A8R86HCR	6.0	8.0	8.0	8	NEMA 3R	UUT 1
A48N3617	17.3	36.0	48.0	149	NEMA 1	UUT 2
CSD603612	12.0	36.0	60.0	155	NEMA 4, 12	UUT 6
Type: Enclosure - Mfr: Unity - Material: Carbon Steel						
12166TC3R	6.0	12.0	16.0	18	NEMA 3R	UUT 4
RC304810	10.0	30.0	48.0	100	NEMA 1, UUT5=133lb, UUT7=153lb	UUT 5,7

ATTACHMENT 2: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

SCHNEIDER ELECTRIC
Temperature Control Panels

TABLE 3 - SUBCOMPONENTS

Mounting: Mounted within unit.	S _{DS} (g)	H _f / R _μ	A _{flx-h}	A _{rig-h}	A _{flx-v}	A _{rig-v}	I _p
	2.00	3.5 / 1.3	3.20	2.15	1.49	0.60	1.5
	2.23	1.0 / 1.0					

Construction/Options: Model number uniquely identifies manufacturer, materials, and configuration of subcomponents.

Substitutions: Subcomponents weighing less than 10-lb may be substituted per CBC 1705A.14.3.1 Exception 7, provided they meet the five listed requirements in that section.

Model Number	Dimensions (in)			Max. Wt. (lb)	Description / Notes	Basis
	Depth	Width	Height			
Type: Display - Mfr: Schneider Electric						
SXWMPCDSP10001	<1	1.4	0.7	0.1	MP-C Display	UUT 9
SXWADBUND10002	0.8	11.8	6.6	1.6	Advanced Display	UUT 7
SXWADBUND10013	1.0	10.2	7.7	2.1	HMI - Advanced Display	UUT 10
Type: Controller, AS-P - Mfr: Schneider Electric						
SXWDI16XX10001	2.5	3.6	4.5	0.6	16DI	UUT 5
SXWRTD16X10001	2.5	3.6	4.5	0.6	16RTD-DI	UUT 7
SXWUI16XX10001	2.5	3.6	4.5	0.6	16UI	UUT 5,7,10
SXWAOV8XX10001	2.5	3.6	4.5	0.6	8AOV	INTERP
SXWAOV8HX10001	2.5	3.6	4.5	0.6	8AOV, HOA	UUT 5
SXWUI8A4X10001	2.5	3.6	4.5	0.6	8UI-4AO	INTERP
SXWUI8A4X10002	2.5	3.6	4.5	0.6	8UI-4AO v2	INTERP
SXWUI8A4H10001	2.5	3.6	4.5	0.6	8UI-4AO, HOA	INTERP
SXWUI8A4H10002	2.5	3.6	4.5	0.6	8UI-4AO, HOA v2	INTERP
SXWUI8V4X10001	2.5	3.6	4.5	0.6	8UI-4AO	INTERP
SXWUI8V4X10002	2.5	3.6	4.5	0.6	8UI-4AO v2	INTERP
SXWUI8V4H10001	2.5	3.6	4.5	0.6	8UI-4AO, HOA	UUT 5
SXWUI8V4H10002	2.5	3.6	4.5	0.6	8UI-4AO, HOA v2	INTERP
SXWAO8XXX10001	2.5	3.6	4.5	0.6	8AO	INTERP
SXWAO8HXX10001	2.5	3.6	4.5	0.6	8AO, HOA	INTERP
SXWPS24VX10001	2.5	3.6	4.5	0.6	AS-P Power Supply	UUT 5,7,10
SXWAUTSVR10001	2.5	3.6	4.5	0.7	Automation Server	UUT 5
SXWUI8D4H10001	2.5	3.6	4.5	0.7	8UI-4DO, HOA	INTERP
SXWUI8D4H10002	2.5	3.6	4.5	0.7	8UI-4DO, HOA v2	INTERP
SXWUI8D4X10001	2.5	3.6	4.5	0.7	8UI-4DO	UUT 5
SXWUI8D4X10002	2.5	3.6	4.5	0.7	8UI-4DO v2	INTERP
SXWDOA12X10001	2.5	3.6	4.5	0.7	12DO	INTERP
SXWDOA12H10001	2.5	3.6	4.5	0.7	12DO, HOA	UUT 5
SXWASPXXX10001	2.5	3.6	4.5	0.7	AS-P	UUT 7
SXWASPXXX10002	2.5	3.6	4.5	0.7	AS-P-NL	INTERP
SXWASPXXX1S001	2.5	3.6	4.5	0.7	AS-P, Smoke	INTERP
SXWASPSBX10001	2.5	3.6	4.5	0.7	AS-P-S	INTERP
SXWASPSBX10002	2.5	3.6	4.5	0.7	AS-P-S-NL	INTERP
SXWASPSBX10A01	2.5	3.6	4.5	0.7	AS-P-S, USA	INTERP
SXWASPSBX1S002	2.5	3.6	4.5	0.7	AS-P-S-NL, Smoke	UUT 10
SXWDOC8XX10001	2.5	3.6	4.5	0.7	8DO	INTERP
SXWDOC8HX10001	2.5	3.6	4.5	0.7	8DO, HOA	UUT 10

TABLE 3 - SUBCOMPONENTS continues on the next page.

ATTACHMENT 2: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

SCHNEIDER ELECTRIC
Temperature Control Panels

TABLE 3 - SUBCOMPONENTS (CONTINUED)

Model Number	Dimensions (in)			Max. Wt. (lb)	Description / Notes	Basis
	Depth	Width	Height			
Type: Controller, AS-B - Mfr: Schneider Electric						
SXWASB24X10001	2.5	7.8	4.3	1.1	24IO, BACnet, Modbus	UUT 9
SXWASB24H10001	2.5	7.8	4.3	1.1	24IO, BACnet, Modbus, HOA	INTERP
SXWASB24PX10001	2.5	7.8	4.3	1.1	24IO, BACnet, Modbus, Scalable	INTERP
SXWASB24HP10001	2.5	7.8	4.3	1.1	24IO, BACnet, Modbus, HOA, Scal.	INTERP
SXWASB36X10001	2.5	7.8	4.3	1.1	36IO, BACnet, Modbus	INTERP
SXWASB36PX10001	2.5	7.8	4.3	1.1	36IO, BACnet, Modbus, Scalable	INTERP
SXWASB36HP10001	2.5	7.8	4.3	1.1	36IO, BACnet, Modbus, HOA, Scal.	INTERP
SXWASB36H10001	2.5	7.8	4.3	1.1	36IO, BACnet, Modbus, HOA	UUT 9
Type: Controller, MP-C & IP-IO - Mfr: Schneider Electric						
SXWIPIOAA10A01	2.5	6.0	4.3	0.7	10DI, USA	EXTRAP
SXWIPIOAA1S001	2.5	6.0	4.3	0.7	10DI, Smoke	EXTRAP
SXWIPIOAA10001	2.5	6.0	4.3	0.7	10DI	EXTRAP
SXWIPIOBA10A01	2.5	6.0	4.3	0.7	10UIO, USA	EXTRAP
SXWIPIOBA1S001	2.5	6.0	4.3	0.7	10UIO, Smoke	EXTRAP
SXWIPIOBA10001	2.5	6.0	4.3	0.7	10UIO	EXTRAP
SXWIPIOCA10A01	2.5	6.0	4.3	0.8	5UIO-4DO, USA	EXTRAP
SXWIPIOCA1S001	2.5	6.0	4.3	0.8	5UIO-4DO, Smoke	UUT 10
SXWIPIOCA10001	2.5	6.0	4.3	0.8	5UIO-4DO	INTERP
SXWMPC15A10A01	2.5	6.0	4.3	0.8	15IO, USA	INTERP
SXWMPC15A1S001	2.5	6.0	4.3	0.8	15IO, Smoke	INTERP
SXWMPC15A10001	2.5	6.0	4.3	0.8	15IO	UUT 8
SXWMPC18A10A01	2.5	6.0	4.3	0.8	18IO, USA	INTERP
SXWMPC18A1S001	2.5	6.0	4.3	0.8	18IO, Smoke	INTERP
SXWMPC18A10001	2.5	6.0	4.3	0.8	18IO	INTERP
SXWMPC18B10A01	2.5	6.0	4.3	0.8	18IO, USA	INTERP
SXWMPC18B1S001	2.5	6.0	4.3	0.8	18IO, Smoke	INTERP
SXWMPC18B10001	2.5	6.0	4.3	0.8	18IO	INTERP
SXWMPC24A10A01	2.5	9.2	4.3	1.1	24IO, USA	INTERP
SXWMPC24A1S001	2.5	9.2	4.3	1.1	24IO, Smoke	INTERP
SXWMPC24A10001	2.5	9.2	4.3	1.1	24IO	INTERP
SXWMPC36A10A01	2.5	9.2	4.3	1.2	36IO, USA	INTERP
SXWMPC36A10A01	2.5	9.2	4.3	1.2	36IO, Smoke	INTERP
SXWMPC36A10001	2.5	9.2	4.3	1.2	36IO	UUT 9,10

TABLE 3 - SUBCOMPONENTS continues on the next page.

ATTACHMENT 2: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

SCHNEIDER ELECTRIC
Temperature Control Panels

TABLE 3 - SUBCOMPONENTS (CONTINUED)

Model Number	Dimensions (in)			Max. Wt. (lb)	Description / Notes	Basis
	Depth	Width	Height			
Type: Controller, RP-C - Mfr: Schneider Electric						
SXWRCF12AM10001	2.5	7.1	4.3	0.7	EasyLogic, 8UIO, 4DO, MSTP	EXTRAP
SXWRCF12BM10001	2.5	7.1	4.3	0.8	8UIO, 3DO, 1DO, MSTP	EXTRAP
SXWRCF16AM10001	2.5	7.1	4.3	0.8	8UIO, 4DO, 3DO, 1DO, MSTP	EXTRAP
SXWRCF12A10002	2.5	7.1	4.3	0.8	8UIO, 4DO	EXTRAP
SXWRCF12C10002	2.5	7.1	4.3	0.9	4UIO, 4DO, 3DO, 1DO	EXTRAP
SXWRCF12B10002	2.5	7.1	4.3	0.9	8UIO, 3DO, 1DO	EXTRAP
SXWRCC12B10001	2.5	7.1	4.3	0.9	8UIO, 3DO, 1DO, Configurable	UUT 7
SXWRCC12C10001	2.5	7.1	4.3	0.9	4UIO, 4DO, 3DO, 1DO, Configurable	UUT 7
SXWRCF16B10001	2.5	7.1	4.3	0.9	8UIO, 4DO, 3DO, 1DO	UUT 10
SXWREDALI110001	2.5	7.8	4.3	0.8	4DI, 4DALI	INTERP
SXWREREL410001	2.5	7.8	4.3	0.8	4DI, 4DO (Relay)	INTERP
SXWRE010410001	2.5	7.8	4.3	1.0	4DI, 4AOV	UUT 10
Type: Controller, Repeater - Mfr: Schneider Electric						
B-LINK-AC-OP	2.0	6.1	6.9	2.7		UUT 6
Type: Controller, Tridium/JACE - Mfr: Schneider Electric						
TRD-IO-16-485	2.4	2.1	4.3	1.0	16 I/O points, 8 UI, 4 DO, 4 AO	UUT 6
TRD-NPB-8000-2X-485	2.4	2.1	4.3	1.0	Dual port RS-485 module	UUT 6
TRD-NPB-8000-LON	2.4	2.1	4.3	1.0	Single port LON FTT10A module	UUT 6
TRD-NPB-PWR-UN	2.4	2.1	4.3	1.0	600/700 UPS module: 90-263 VAC	UUT 6
TRD-IO-R-16	2.4	3.3	4.5	1.0		INTERP
TRD-JACE-8000	2.4	6.4	4.3	2.0		UUT 6
TRD-JACE-9000	2.4	6.4	4.3	2.0		UUT 10
TRD-IO-R-34	2.4	6.8	4.5	2.0		UUT 10
Type: Networking Equipment - Mfr: Cisco						
IE-1000-4T1T-LM	4.5	1.5	5.0	1.1	5-Port, non-POE	UUT 6
IE-1000-6T2T-LM	4.5	1.8	5.0	1.3	8-Port, non-POE	INTERP
IE-1000-4P2S-LM	5.3	1.8	5.0	1.7	6-Port, 4 POE	INTERP
IE-1000-8P2S-LM	5.3	1.8	5.0	1.9	10-Port, 8 POE	INTERP
IE-2000-8TC-B	4.5	3.6	5.1	2.7	6-Port + 2 Fiber Ports, Ethernet	INTERP
IE-2000-16TC-B	5.3	5.0	5.1	4.4	16-Port + 2 Fiber Ports, Ethernet	UUT 6
Type: Networking Equipment - Mfr: Contemporary Controls						
KEL-BASRT-B	4.9	2.7	1.0	0.5	BACnet Multi Router (MSTP-IP)	UUT 10
Type: Networking Equipment - Mfr: Square D						
EGX150	2.8	2.8	4.1	0.4	Modbus Ethernet Gateway	UUT 8
EGX300	2.6	2.8	3.2	0.4	Modbus Gateway-Server	UUT 8
Type: Networking Equipment - Mfr: Contemporary Controls						
KEL-EIBA5-100TR	1.0	3.5	3.3	0.6	5-Port 10/100	UUT 9
Type: Networking Equipment - Mfr: Advantech Corporation						
KEL-EKI-2525-BE	3.7	1.2	4.7	3.0	5-Port 10/100MBPS	UUT 9
KEL-EKI-2525M-AE	3.7	1.2	5.5	3.0	4-Port 10/100M-1 Fiber	UUT 9

TABLE 3 - SUBCOMPONENTS continues on the next page.

ATTACHMENT 2: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

SCHNEIDER ELECTRIC
Temperature Control Panels

TABLE 3 - SUBCOMPONENTS (CONTINUED)

Model Number	Dimensions (in)			Max. Wt. (lb)	Description / Notes	Basis
	Depth	Width	Height			
Type: Networking Equipment - Mfr: Wago						
KEL-852-201/107-002	2.2	0.5	0.5	0.1	SFP Module for Multi-mode Fiber	UUT 9
KEL-852-111	3.2	0.9	4.3	0.7	5-Port, 10/100MBPS	UUT 9
KEL-852-103	4.7	2.0	6.4	2.0	8-Port + 2 Fiber ports	UUT 9
Type: Networking Equipment - Mfr: EtherWAN						
EX73931-0VB	5.5	2.8	6.7	3.1	Managed 16 Ports + 4 Fiber Ports	UUT 6
EX78802-0VBT	5.6	2.9	6.8	3.7	Managed 6 Ports + 2 Fiber Port	UUT 6
Type: Networking Equipment - Mfr: Delta						
DSM-RTR	1.9	4.4	4.3	1.0	BACnet Building Controller Router	UUT 6
Type: Networking Equipment - Mfr: Netgear						
FS605	1.1	3.8	5.8	0.4	5-Port Ethernet Switch	UUT 2
FS116	1.1	4.0	11.2	1.8	16-Port Ethernet Switch	UUT 2
Type: Networking Equipment - Mfr: Schneider Electric						
PAS600L	2.8	2.8	3.7	0.4	EcoStruxure Panel Server	UUT 10
Type: Networking Equipment - Mfr: Phoenix Contact						
2702323	4.7	1.8	5.1	0.5	5-Port Network Switch	EXTRAP
2702327	4.7	1.8	5.1	0.5	8-Port Network Switch	EXTRAP
2702328	4.7	1.8	5.1	0.5	7-Port Network Switch, 1-SC Multi	EXTRAP
2702330	4.7	1.8	5.1	0.6	6-Port Network Switch, 2-SC Multi	UUT 10
2891152	2.8	1.2	4.7	0.9	5-Port Network Switch	UUT 5
2702903	4.7	3.3	5.1	1.0	16-Port Network Switch	INTERP
2702905	4.7	3.3	5.1	1.0	14-Port Network Switch, 2-SC Multi	UUT 10
Type: Light - Mfr: Hoffman						
LF120V18	2.8	17.5	1.3	1.3	Fluorescent lighting package	UUT 6
Type: Light - Mfr: Phoenix Contact						
1319573	1.5	15.4	1.8	0.3	PLD E 409 W 350 MS light	UUT 10
Type: Socket - Mfr: Phoenix Contact						
0804168	2.3	1.8	3.0	0.2	EO-AB/PT/LED/15 - Socket	UUT 10
Type: Power Supply - Mfr: Schneider Electric						
ABL8RED24400	5.8	1.8	4.9	1.3	24 VDC Redundancy Module 40A	UUT 10
ABLS1A24200	5.1	3.4	4.9	2.8	100-240V AC, 24V DC 20 A	UUT 10
Type: Power Supply - Mfr: Functional Devices						
PSMN24DAS	1.6	2.8	4.0	1.1	24VAC to 1.5-28 VDC, 300 mA	UUT 5
PSM24A24DAS	1.6	2.8	4.0	1.1	24VAC/24VDC, 300mA	UUT 2
PSM19A24DAS	1.6	2.8	4.0	1.1	120VAC/10-24VDC	UUT 7
PSMN40A24DS	2.0	2.8	5.0	1.5	120 VAC to 24 VDC, 1 Amp	UUT 5,6
PSB100AB10	3.8	5.3	5.2	4.5	100VA, 120VAC to 24 VAC	UUT 5
Type: Power Supply - Mfr: Veris						
PS24-S7.5W	2.8	1.9	3.0	0.3	120 VAC to 24 VDC; 7.5W	EXTRAP
PS24-S15W	3.8	0.9	3.6	0.3	120 VAC to 24 VDC; 15W	UUT 8
PS24-S30W	3.8	0.9	3.6	0.3	120 VAC to 24 VDC; 30W	INTERP
PS24-S60W	4.3	1.5	3.8	0.6	120 VAC to 24 VDC; 60W	UUT 9
PS24-S90W	4.3	1.5	3.8	0.7	120 VAC to 24 VDC; 90W	UUT 7

TABLE 3 - SUBCOMPONENTS continues on the next page.

ATTACHMENT 2: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

SCHNEIDER ELECTRIC
Temperature Control Panels

TABLE 3 - SUBCOMPONENTS (CONTINUED)

Model Number	Dimensions (in)			Max. Wt. (lb)	Description / Notes	Basis
	Depth	Width	Height			
Type: Power Supply - Mfr: Functional Devices						
PSH100A100AB10	4.5	8.6	4.5	8.6	100VA, 120 to 24 VAC	UUT 5
PSH100A100A	4.5	8.6	4.5	8.6	100VA, 120 to 24 VAC	INTERP
PSH100A100AN	4.5	8.6	4.5	8.6	100VA, 120 to 24 VAC	INTERP
PSH100A100ANW	4.5	8.6	4.5	8.6	100VA, 120 to 24 VAC	INTERP
PSH100A100AW	4.5	8.6	4.5	8.6	100VA, 120 to 24 VAC	INTERP
PSH100A100ANB10	4.5	8.6	4.5	8.6	100VA, 120 to 24 VAC	INTERP
PSH100A100ANWB10	4.5	8.6	4.5	8.6	100VA, 120 to 24 VAC	INTERP
PSH100A100AWB10	4.5	8.6	4.5	8.6	100VA, 120 to 24 VAC	UUT 5
Type: Power Supply - Mfr: MAMAC						
PS-200-1-A-3-N	4.2	6.4	2.5	2.5	24VAC/24VDC, 1.5A	UUT 6
PS-200-1-B-1-L	2.8	5.6	4.3	3.0	115VAC/24VDC, 3.0A	UUT 4
Type: Power Supply - Mfr: Cisco						
PWR-IE50W-AC	5.8	2.0	4.6	1.4	120VAC/24VDC, Non-POE	UUT 6
PWR-IE65W-PC-AC	4.6	2.5	5.8	2.6	120VAC/54VDC, POE 3-port	INTERP
PWR-IE170W-PC-AC	5.7	3.8	5.9	3.9	120VAC/54VDC, POE 8-port	UUT 6
Type: Uninterrupted Power Supply - Mfr: APC						
UPS-SUA500PDR-S	6.7	14.3	5.8	28.4	SDU UPS, 500VA, 120VAC	UUT 6
Type: Uninterrupted Power Supply - Mfr: Sola						
SDU500	4.6	11.1	4.9	10.7	500VA, 120VAC	UUT 2
SDU500-5	4.6	11.1	4.9	11.5	500VA, 230VAC	INTERP
SDU850A	4.8	11.1	4.9	11.5	850VA, 120VAC	UUT 7
Type: Uninterrupted Power Supply - Mfr: Sola						
S1K320	10.4	3.8	5.3	8.8	320VA	UUT 6
S1K650	10.4	3.8	5.3	8.1	650VA	INTERP
S1K850	10.4	3.8	5.3	10.8	850VA	INTERP
S1K1200	12.6	5.3	3.8	10.8	1200VA	UUT 6
Type: Transformer - Mfr: Veris						
X040ADA	2.9	2.2	2.7	2.3	40VA, 24V-24V	EXTRAP
X050CAA	3.1	2.5	3.5	2.7	50VA 120V-24V	UUT 7
X100CAA	3.1	2.5	4.1	4.0	99VA, 120V-24V	INTERP
X100CAB	3.1	2.5	4.1	4.0	99VA, 120V-24V	UUT 7,10
Type: Transformer - Mfr: TAC						
T-255-120	2.6	1.9	2.3	1.3	20VA 120V-P, 24V	EXTRAP
T-201-1	2.9	2.2	2.8	2.1	50VA 120V-P, 24V	UUT 1
T-240	2.9	2.2	2.8	2.8	50VA 277V-P, 24V	INTERP
T-245	3.1	3.5	2.5	2.9	50 VA, 120/240/277/408 V-P, 24V	INTERP
T-207	3.1	2.5	3.9	2.9	75 VA, 120V-P, 24V	INTERP
T-249	4.0	4.0	3.5	3.2	50 VA, 208/240/277/408 V-P, 24V	INTERP
T-202	3.2	3.8	3.2	4.0	85 VA, 120V-P, 24V	INTERP
T-208	3.1	2.5	4.1	4.0	99 VA, 120V-P, 24V	UUT 2
Type: Transformer - Mfr: Functional Devices						
TR100VA004	3.0	2.5	4.2	4.6	100 VA, Multi-24 VAC	UUT 6
TR175VA002	3.2	3.8	3.8	7.1	175VA 120V-P, 24V	UUT 2

TABLE 3 - SUBCOMPONENTS continues on the next page.

ATTACHMENT 2: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

SCHNEIDER ELECTRIC
Temperature Control Panels

TABLE 3 - SUBCOMPONENTS (CONTINUED)

Model Number	Dimensions (in)			Max. Wt. (lb)	Description / Notes	Basis
	Depth	Width	Height			
Type: Transducer, Differential Pressure - Mfr: Schneider Electric						
EPP301LCD	1.7	4.4	4.4	0.3	Dry media; 0-1"WC; LCD	UUT 7,10
EPP301	1.7	4.4	4.4	0.3	Dry media; 0-1"WC	INTERP
EPP302LCD	1.7	4.4	4.4	0.3	Dry media; 0-10"WC; LCD	INTERP
EPP302	1.7	4.4	4.4	0.3	Dry media; 0-10"WC	INTERP
EPU305LCD	1.7	4.4	4.4	0.3	Dry media; 0-10"WC; LCD	INTERP
EPU305	1.7	4.4	4.4	0.3	Dry media; 0-10"WC	UUT 7
Type: Transducer, Differential Pressure - Mfr: Veris						
PAS01	2.1	3.6	3.5	1.0	Dry switch .08-1.2 IN WC	UUT 7
PAS02	2.1	3.6	3.5	1.0	Dry switch .2-2.0 IN WC	INTERP
PAS03	2.1	3.6	3.5	1.0	Dry switch .4-4.0 IN WC	INTERP
PAS04	2.1	3.6	3.5	1.0	Dry switch 2-8 IN WC	UUT 7
Type: Transducer, Electropneumatic - Mfr: Veris						
EP3030S	1.8	4.9	3.5	1.0		UUT 7
EP3031S	1.8	4.9	3.5	1.0	Vent on Power Fail	INTERP
EP3330S	1.8	4.9	3.5	1.0	Analog Output	INTERP
EP3331S	1.8	4.9	3.5	1.0	Analog Output, Vent on Power Fail	UUT 7
Type: Relay - Mfr: Veris						
H548	1.6	4.3	4.3	0.7		UUT 7
Type: Relay - Mfr: Schneider Electric						
RXG22BD	1.4	0.5	1.1	0.1	DPDT Relay 24V DC	UUT 10
RXG22B7	1.4	0.5	1.1	0.1	DPDT Relay 24V AC	UUT 10
RXG22F7	1.4	0.5	1.1	0.1	DPDT Relay 120V AC	UUT 10
RGZE1S48M	2.4	0.6	3.1	0.1	DPDT Relay Terminal Base	UUT 10
Type: Relay - Mfr: Schneider Electric						
822TD10H-UNI	2.5	0.7	3.5	0.2	DPDT Timer Relay	UUT 10
Type: Relay - Mfr: Functional Devices						
RIBMU1C	0.9	4.0	1.3	0.2	15 Amp SPDT	UUT 4
Type: Relay - Mfr: IDEC						
RH1B	1.4	0.6	1.1	0.1	SPDT Relays	UUT 1
RH2B	1.4	0.8	1.1	0.1	DPDT Relays	INTERP
RH3B	1.4	1.2	1.1	0.1	3PDT Relays	INTERP
RH4B	1.4	1.6	1.1	0.2	4PDT Relays	UUT 1
Type: Relay - Mfr: Veris						
VMD1B	1.4	0.6	1.1	0.1	SPDT Relays	UUT 1,5
VMD2B	1.4	0.9	1.1	0.1	DPDT Relays	INTERP
VMD3B	1.4	1.3	1.1	0.1	3PDT Relays	INTERP
VMD4B	1.4	1.7	1.1	0.2	4PDT Relays	UUT 1,5
VST10/VST11	0.9	2.8	1.1	0.2	Snaptrack 10A SPDT Relay	UUT 5
VST10-4/VST11-4	0.9	4.0	1.1	0.2	Snaptrack 10A SPDT Relay	INTERP
VST100/VST101	1.4	2.8	1.5	0.2	Snaptrack 10A SPDT Relay	INTERP
VST100-4/VST101-4	1.4	4.0	1.5	0.2	Snaptrack 10A SPDT Relay	UUT 5
V645	1.1	1.7	1.2	0.2	SPDT 24-30VAC/DC, 10A	UUT 7

TABLE 3 - SUBCOMPONENTS continues on the next page.

ATTACHMENT 2: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

SCHNEIDER ELECTRIC
Temperature Control Panels

TABLE 3 - SUBCOMPONENTS (CONTINUED)

Model Number	Dimensions (in)			Max. Wt. (lb)	Description / Notes	Basis
	Depth	Width	Height			
Type: Circuit Breaker - Mfr: Square D						
SQD-M9F42170	2.8	0.7	4.1	0.2	0.5A	UUT 7
SQD-M9F42101	2.8	0.7	4.1	0.2	1.0A	INTERP
SQD-M9F42102	2.8	0.7	4.1	0.2	2.0A	INTERP
SQD-M9F42103	2.8	0.7	4.1	0.2	3.0A	INTERP
SQD-M9F42104	2.8	0.7	4.1	0.2	4.0A	INTERP
SQD-M9F42105	2.8	0.7	4.1	0.2	5.0A	INTERP
SQD-M9F42106	2.8	0.7	4.1	0.2	6.0A	INTERP
SQD-M9F42107	2.8	0.7	4.1	0.2	7.0A	INTERP
SQD-M9F42108	2.8	0.7	4.1	0.2	8.0A	INTERP
SQD-M9F42110	2.8	0.7	4.1	0.2	10.0A	INTERP
SQD-M9F42115	2.8	0.7	4.1	0.2	15.0A	INTERP
SQD-M9F42120	2.8	0.7	4.1	0.2	20.0A	UUT 7
Type: Circuit Breaker - Mfr: Kele						
QL-1	2.7	0.5	3.8	0.2	1.0A	UUT 4
QL-3	2.7	0.5	3.8	0.2	3.0A	INTERP
QL-4	2.7	0.5	3.8	0.2	4.0A	INTERP
QL-5	2.7	0.5	3.8	0.2	5.0A	INTERP
QL-8	2.7	0.5	3.8	0.2	8.0A	INTERP
QL-10	2.7	0.5	3.8	0.2	10.0A	INTERP
QL-15	2.7	0.5	3.8	0.2	15.0A	INTERP
QL-20	2.7	0.5	3.8	0.2	20.0A	INTERP
QL-25	2.7	0.5	3.8	0.2	25.0A	UUT 5
Type: Circuit Breaker - Mfr: Phoenix Contact						
0712194	1.8	0.3	1.0	0.03	TCP 1A	EXTRAP
0712217	1.8	0.3	1.0	0.03	TCP 2A	EXTRAP
0712233	1.8	0.3	1.0	0.03	TCP 3A	EXTRAP
0712259	1.8	0.3	1.0	0.03	TCP 4A	EXTRAP
1538622	1.8	0.3	1.0	0.03	TCP 5A	EXTRAP
0712275	1.8	0.3	1.0	0.03	TCP 6A	UUT 10
0712314	1.8	0.3	1.0	0.03	TCP 10A	INTERP
1538627	1.8	0.3	1.0	0.03	TCP 12A	UUT 10
Type: Fuse Holder - Mfr: Ferraz-Schawmut						
USCC1	2.3	0.7	3.1	0.5	30.0A	INTERP UUT 5
Type: Terminal Block - Mfr: Phoenix Contact						
3210567	1.8	0.2	2.7	0.02	PTTB 2,5	EXTRAP
3210596	1.9	0.2	2.7	0.03	PTTB 2,5-2PE	EXTRAP
3210978	1.9	0.2	2.7	0.03	PTTB 2,5-PE/L	EXTRAP
3210499	2.2	0.2	4.0	0.04	PTTB 2,5-3L	UUT 10
1334599	2.7	0.2	5.6	0.07	PTTB 2,5-4L	INTERP
1336413	2.7	0.2	5.6	0.07	PTTB 2,5-4PE	UUT 10
3212166	1.7	0.3	2.9	0.04	PT 6-FSI/C	UUT 10
1088498	2.0	0.4	3.5	0.07	PT 10-FSI/C	UUT 10

End of TABLE 3 - SUBCOMPONENTS. Notes, information, and seismic parameters are shown at the beginning of the table.

ATTACHMENT 3: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 1

Manufacturer: Schneider Electric
Model number: CUSTOM-8X8X6
Unit function: Temperature Control Panel
Serial number: N/A

Dimensions (in)			Weight (lb)	Res. Freq. (Hz)		
Depth	Width	Height		F-B	S-S	V
6.0	8.0	8.0	12	N/A	N/A	N/A

Code & criteria: 2025 CBC, ICC-ES AC156

Test laboratory: Element - Newark (formerly Elliott/NTS)

Report: R83579 (dated 7-14-11), tested on 5-25-11

S _{DS} (g)	H _f / R _μ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
2.50	3.5 / 1.3	4.00	3.00	1.68	0.68
2.50	1.0 / 1.0				

Importance Factor, I_p = 1.5: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Wall mounted rigid using (4) 3/8" Grade 8 bolts.

Construction: NEMA 3R carbon steel enclosure.

Subcomponents: Hoffman - Enclosure (A8R86HCR), TAC - Transformer (T-201-1), IDEC - Relay (RH1B, RH4B), Veris - Relay (VMD1B, VMD4B).

Testing notes: UUT 1 from test report R83579.



UUT 2

Manufacturer: Schneider Electric
Model number: CUSTOM-36X48X17
Unit function: Temperature Control Panel
Serial number: N/A

Dimensions (in)			Weight (lb)	Res. Freq. (Hz)		
Depth	Width	Height		F-B	S-S	V
17.3	36.0	48.0	246	N/A	N/A	N/A

Code & criteria: 2025 CBC, ICC-ES AC156

Test laboratory: Element - Newark (formerly Elliott/NTS)

Report: R83579 (dated 7-14-11), tested on 5-25-11

S _{DS} (g)	H _f / R _μ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
2.00	3.5 / 1.3	3.20	2.40	1.49	0.60
2.23	1.0 / 1.0				

Importance Factor, I_p = 1.5: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Wall mounted rigid using (4) 3/8" Grade 8 bolts.

Construction: NEMA 1 carbon steel enclosure.

Subcomponents: Hoffman - Enclosure (A48N3617), Netgear - Networking Equipment (FS605, FS116), Functional Devices - Power Supply (PSM24A24DAS), Sola - Uninterrupted Power Supply (SDU500), TAC - Transformer (T-208), Functional Devices - Transformer (TR175VA002), Schneider Electric - Networking Equipment (MNB-70, MNB-300, MNB-1000, MNL-10Rxx, MNL-800, ENC-520-2, UNC-520-2), Sentra - Transducer, Differential Pressure (264), Ashcroft - Transducer, Differential Pressure (XLdp), Greystone - Transducer, Differential Pressure (AFS-222), Veris - Transducer, Differential Pressure (PXP).

Testing notes: UUT 2 from test report R83579.

The door for UUT 2 opened during the 45-degree test, so that direction is considered invalid. The test levels shown above reflect a reduction by a factor of 1.3 to account for orthogonality in the absence of a 45-degree test.



ATTACHMENT 3: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 4

Manufacturer: Schneider Electric
Model number: CUSTOM-12X16X6
Unit function: Temperature Control Panel
Serial number: N/A

Dimensions (in)			Weight (lb)	Res. Freq. (Hz)		
Depth	Width	Height		F-B	S-S	V
6.0	12.0	16.0	21	N/A	N/A	N/A

Code & criteria: 2025 CBC, ICC-ES AC156

Test laboratory: Element - Newark (formerly NTS)

Report: R91239 (dated 3-6-13), tested on 1-29-13

S _{DS} (g)	H _f / R _μ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
2.50	3.5 / 1.3	4.00	3.00	1.68	0.68
2.50	1.0 / 1.0				

Importance Factor, I_p = 1.5: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Wall mounted rigid using (4) 1/4" Grade 8 bolts.

Construction: NEMA 3R carbon steel enclosure.

Subcomponents: Unity - Enclosure (12166TC3R), MAMAC - Power Supply (PS-200-1-B-1-L), Functional Devices - Relay (RIBMU1C), Kele - Circuit Breaker (QL-1).

Testing notes: UUT 1 from test report R91239.



UUT 5

Manufacturer: Schneider Electric
Model number: CUSTOM-30X48X10
Unit function: Temperature Control Panel
Serial number: N/A

Dimensions (in)			Weight (lb)	Res. Freq. (Hz)		
Depth	Width	Height		F-B	S-S	V
10.0	30.0	48.0	133	N/A	N/A	N/A

Code & criteria: 2025 CBC, ICC-ES AC156

Test laboratory: Element - Newark (formerly NTS)

Report: R91239 (dated 3-6-13), tested on 1-29-13

S _{DS} (g)	H _f / R _μ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
2.50	3.5 / 1.3	4.00	3.00	1.68	0.68
2.50	1.0 / 1.0				

Importance Factor, I_p = 1.5: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Wall mounted rigid using (4) 3/8" Grade 8 bolts.

Construction: NEMA 1 carbon steel enclosure.

Subcomponents: Unity - Enclosure (RC304810), Schneider Electric - Controller, AS-P (SXWDI16XX10001, SXWUI16XX10001, SXWAOV8HX10001, SXWUI8V4H10001, SXWPS24VX10001, SXWAUTSVR10001, SXWUI8D4X10001, SXWDOA12H10001), Phoenix Contact - Networking Equipment (2891152), Functional Devices - Power Supply (PSMN24DAS, PSMN40A24DS, PSB100AB10, PSH100A100AB10, PSH100A100AWB10), Veris - Relay (VMD1B, VMD4B, VST10/VST11, VST100-4/VST101-4), Kele - Circuit Breaker (QL-25), Ferraz-Schawmut - Fuse Holder (USCC1), Schneider Electric - Transducer, Differential Pressure (EPP101-LCD, EPU-105, EPW103-LCD, EPW105), Veris - Power Supply (PS24-7.5, PS24-100).

Testing notes: UUT 2 from test report R91239.



ATTACHMENT 3: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 6

Manufacturer: Schneider Electric
Model number: CUSTOM-36X60X12
Unit function: Temperature Control Panel
Serial number: N/A

Dimensions (in)			Weight (lb)	Res. Freq. (Hz)		
Depth	Width	Height		F-B	S-S	V
12.0	36.0	60.0	321	N/A	N/A	N/A

Code & criteria: 2025 CBC, ICC-ES AC156

Test laboratory: Environmental Testing Laboratory

Report: 18071TR1.1 (dated 10-13-20), tested on 5-3-19

S_{DS} (g)	H_f / R_{μ}	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
2.00	3.5 / 1.3	3.20	2.40	1.68	0.68
2.50	1.0 / 1.0				

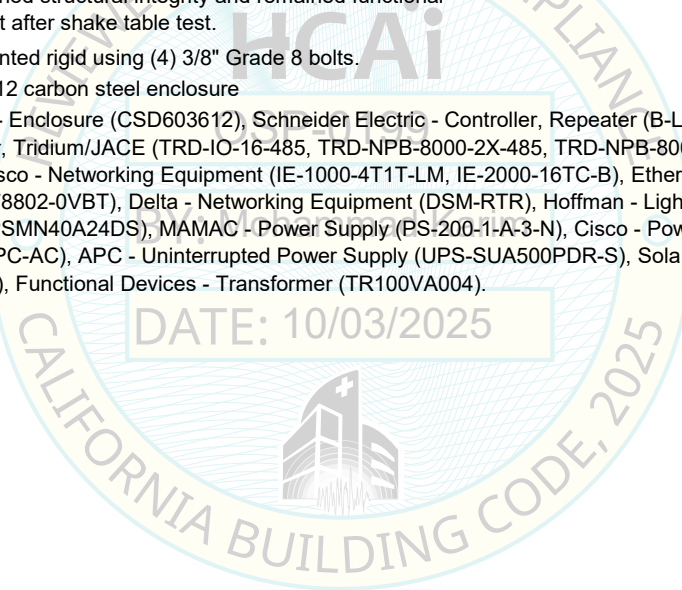
Importance Factor, $I_p = 1.5$: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Wall mounted rigid using (4) 3/8" Grade 8 bolts.

Construction: NEMA 4/12 carbon steel enclosure

Subcomponents: Hoffman - Enclosure (CSD603612), Schneider Electric - Controller, Repeater (B-LINK-AC-OP), Schneider Electric - Controller, Tridium/JACE (TRD-IO-16-485, TRD-NPB-8000-2X-485, TRD-NPB-8000-LON, TRD-NPB-PWR-UN, TRD-JACE-8000), Cisco - Networking Equipment (IE-1000-4T1T-LM, IE-2000-16TC-B), EtherWAN - Networking Equipment (EX73931-0VB, EX78802-0VBT), Delta - Networking Equipment (DSM-RTR), Hoffman - Light (LF120V18), Functional Devices - Power Supply (PSMN40A24DS), MAMAC - Power Supply (PS-200-1-A-3-N), Cisco - Power Supply (PWR-IE50W-AC, PWR-IE170W-PC-AC), APC - Uninterrupted Power Supply (UPS-SUA500PDR-S), Sola - Uninterrupted Power Supply (S1K320, S1K1200), Functional Devices - Transformer (TR100VA004).

Testing notes: N/A



ATTACHMENT 3: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 7

Manufacturer: Schneider Electric
Model number: CUSTOM-30X48X10
Unit function: Temperature Control Panel
Serial number: N/A

Dimensions (in)			Weight (lb)	Res. Freq. (Hz)		
Depth	Width	Height		F-B	S-S	V
10.0	30.0	48.0	153	N/A	N/A	N/A

Code & criteria: 2025 CBC, ICC-ES AC156

Test laboratory: Environmental Testing Laboratory

Report: 18071TR1.1 (dated 10-13-20), tested on 5-3-19

S _{DS} (g)	H _f / R _μ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
2.00	3.5 / 1.3	3.20	2.40	1.68	0.68
2.50	1.0 / 1.0				

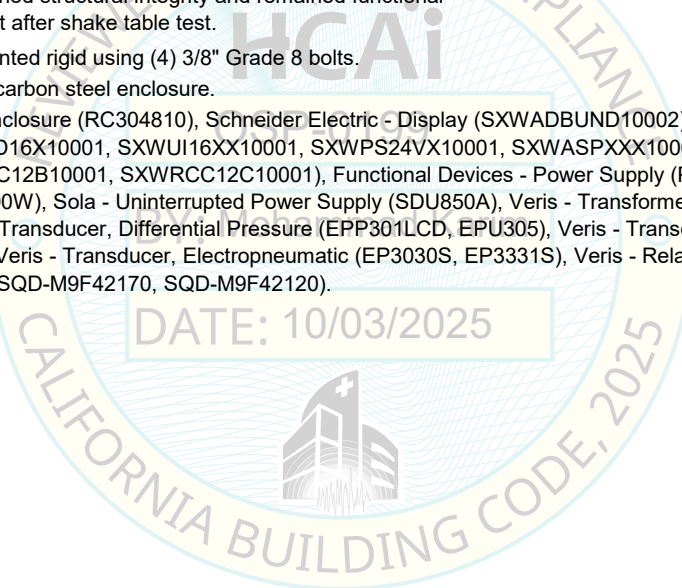
Importance Factor, I_p = 1.5: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Wall mounted rigid using (4) 3/8" Grade 8 bolts.

Construction: NEMA 1 carbon steel enclosure.

Subcomponents: Unity - Enclosure (RC304810), Schneider Electric - Display (SXWADBUND10002), Schneider Electric - Controller, AS-P (SXWRD16X10001, SXWUI16XX10001, SXWPS24VX10001, SXWASPXXX10001), Schneider Electric - Controller, RP-C (SXWRCC12B10001, SXWRCC12C10001), Functional Devices - Power Supply (PSM19A24DAS), Veris - Power Supply (PS24-S90W), Sola - Uninterrupted Power Supply (SDU850A), Veris - Transformer (X050CAA, X100CAB), Schneider Electric - Transducer, Differential Pressure (EPP301LCD, EPU305), Veris - Transducer, Differential Pressure (PAS01, PAS04), Veris - Transducer, Electropneumatic (EP3030S, EP3331S), Veris - Relay (H548, V645), Square D - Circuit Breaker (SQD-M9F42170, SQD-M9F42120).

Testing notes: N/A



ATTACHMENT 3: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 8

Manufacturer: Schneider Electric
Model number: CUSTOM-24X24X8
Unit function: Temperature Control Panel
Serial number: N/A

Dimensions (in)			Weight (lb)	Res. Freq. (Hz)		
Depth	Width	Height		F-B	S-S	V
7.9	23.6	23.6	53	N/A	N/A	N/A

Code & criteria: 2025 CBC, ICC-ES AC156

Test laboratory: Environmental Testing Laboratory

Report: 18071TR1.1 (dated 10-13-20), tested on 5-3-19

S_{DS} (g)	H_f / R_μ	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
2.00	3.5 / 1.3	3.20	2.40	1.68	0.68
2.50	1.0 / 1.0				

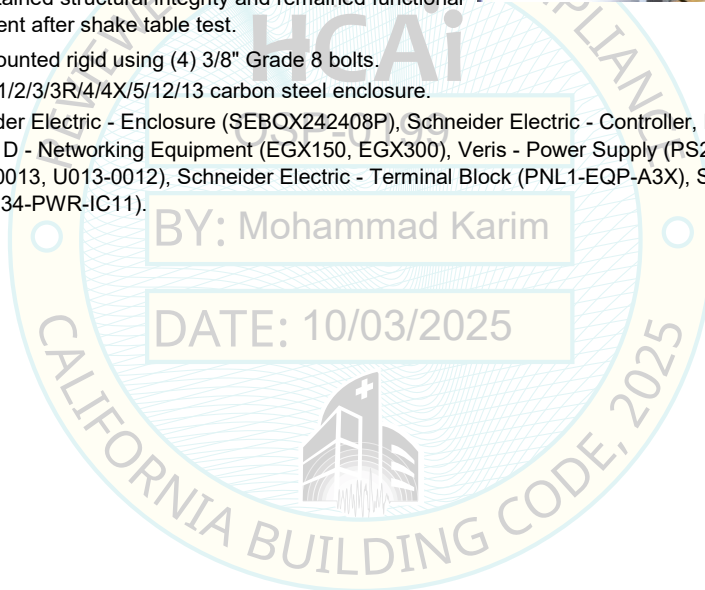
Importance Factor, $I_p = 1.5$: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Wall mounted rigid using (4) 3/8" Grade 8 bolts.

Construction: NEMA 1/2/3/3R/4/4X/5/12/13 carbon steel enclosure.

Subcomponents: Schneider Electric - Enclosure (SEBOX242408P), Schneider Electric - Controller, MP-C & IP-IO (SXWMPC15A10001), Square D - Networking Equipment (EGX150, EGX300), Veris - Power Supply (PS24-S15W), Veris - Networking Equipment (U013-0013, U013-0012), Schneider Electric - Terminal Block (PNL1-EQP-A3X), Schneider Electric - Power Supply (PNL1234-PWR-IC11).

Testing notes: N/A



ATTACHMENT 3: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 9

Manufacturer: Schneider Electric
Model number: CUSTOM-32X39X10
Unit function: Temperature Control Panel
Serial number: N/A

Dimensions (in)			Weight (lb)	Res. Freq. (Hz)		
Depth	Width	Height		F-B	S-S	V
9.8	31.5	39.4	109	N/A	N/A	N/A

Code & criteria: 2025 CBC, ICC-ES AC156

Test laboratory: Environmental Testing Laboratory

Report: 18071TR1.1 (dated 10-13-20), tested on 5-3-19

S _{DS} (g)	H _f / R _μ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
2.00	3.5 / 1.3	3.20	2.40	1.68	0.68
2.50	1.0 / 1.0				

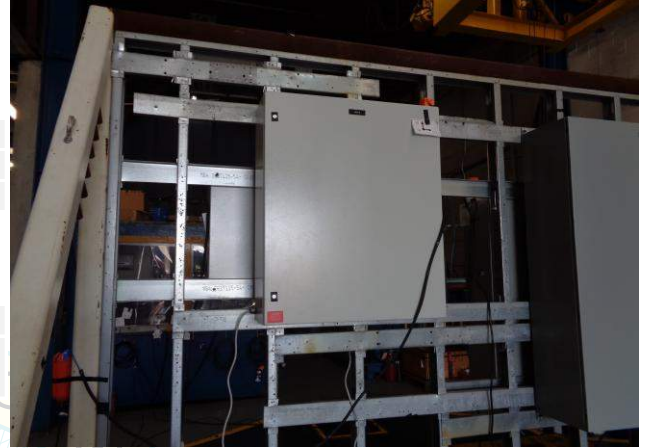
Importance Factor, I_p = 1.5: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Wall mounted rigid using (4) 3/8" Grade 8 bolts.

Construction: NEMA 1/2/3/3R/4/4X/5/12/13 carbon steel enclosure.

Subcomponents: Schneider Electric - Enclosure (SEBOX393210P), Schneider Electric - Display (SXWMPCDSP10001), Schneider Electric - Controller, AS-B (SXWASB24X10001, SXWASB36H10001), Schneider Electric - Controller, MP-C & IP-IO (SXWMPC36A10001), Contemporary Controls - Networking Equipment (KEL-EIBA5-100TR), Advantech Corporation - Networking Equipment (KEL-EKI-2525-BE, KEL-EKI-2525M-AE), Wago - Networking Equipment (KEL-852-201/107-002, KEL-852-111, KEL-852-103), Veris - Power Supply (PS24-S60W), Schneider Electric - Terminal Block (PNL4-EQP-D32), Schneider Electric - Power Supply (PNL4-PWR-IC23).

Testing notes: N/A



DATE: 10/03/2025

ATTACHMENT 3: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 10

Manufacturer: Schneider Electric
Model number: CUSTOM-32X48X12
Unit function: Temperature Control Panel
Serial number: K08082406347

Dimensions (in)			Weight (lb)	Res. Freq. (Hz)		
Depth	Width	Height		F-B	S-S	V
11.8	31.5	47.2	159	N/A	N/A	N/A

Code & criteria: 2025 CBC, ICC-ES AC156-24 (2nd Edition)

Test laboratory: Environmental Testing Laboratory

Report: 24113TR1.1 (dated 10-2-25), tested on 9-23-25

S _{DS} (g)	H _f / R _μ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
2.00	3.5 / 1.3	3.20	2.15	1.68	0.68
2.50	1.0 / 1.0				

Importance Factor, I_p = 1.5: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Wall mounted rigid using (4) 3/8" ASTM A574 bolts.

Construction: NEMA 1/2/3/3R/4/4X/5/12/13 carbon steel enclosure.

Subcomponents: Schneider Electric - Enclosure (SEBOX483212P), Schneider Electric - Display (SXWADBUND10013), Schneider Electric - Controller, AS-P (SXWUI16XX10001, SXWPS24VX10001, SXWASPSBX1S002, SXWDOC8HX10001), Schneider Electric - Controller, MP-C & IP-IO (SXWPIOCA1S001, SXWMPC36A10001), Schneider Electric - Controller, RP-C (SXWRCF16B10001, SXWRE010410001), Schneider Electric - Controller, Tridium/JACE (TRD-JACE-9000, TRD-IO-R-34), Contemporary Controls - Networking Equipment (KEL-BASRT-B), Schneider Electric - Networking Equipment (PAS600L), Phoenix Contact - Networking Equipment (2702330, 2702905), Phoenix Contact - Light (1319573), Phoenix Contact - Socket (0804168), Schneider Electric - Power Supply (ABL8RED24400, ABL51A24200), Veris - Transformer (X100CAB), Schneider Electric - Transducer, Differential Pressure (EPP301LCD), Schneider Electric - Relay (RXG22BD, RXG22B7, RXG22F7, RGZE1S48M, 822TD10H-UNI), Phoenix Contact - Circuit Breaker (0712275, 1538627), Phoenix Contact - Terminal Block (3210499, 1336413, 3212166, 1088498), Phoenix Contact - Terminal Block Bridge (3030213, 3036929), Phoenix Contact - Terminal Block Part (3022276, 0811969, 3211647, 1336340).

Testing notes: N/A

