



**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-0053**

**HCAI Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Square D by Schneider Electric

Manufacturer's Technical Representative: Scott Littler

Mailing Address: 6700 Tower Circle, Suite 700, Franklin, TN 37067

Telephone: (615) 267-9407

Email: Scott.Littler@se.com

**Product Information**

Product Name: HVL/cc (2.4V to 38kV) Metal-Enclosed Load Interrupting Switchgear systems with bus Ampacity ratings from 600A to 1200A (see Certified Product Listing tables).

Product Model Number(s): Varies. See Attachment

Product Category: Switchgear/Switchboards

Product Sub-Category: Switchgear - Medium Voltage

General Description: Distribution and Auxiliary/Meter bay Metal-Enclosed Load Interrupting Switchgear sections.

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

**Applicant Information**

Applicant Company Name: Pre Compliance

Contact Person: Galen Reid

Mailing Address: 36 Southwest Wall Street, Bend, OR 977023425

Telephone: (541) 241-2310

Email: galen@go-pre.com

Title: Principal and Program Manager





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

Company Name: PRE COMPLIANCE  
Name: Andrew Coughlin California License Number: S6082  
Mailing Address: 36 SW Wall Street, Bend, OR 97702  
Telephone: (415) 635-8461 Email: Andy@go-pre.com

**Certification Method**

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

**Testing Laboratory**

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

Company Name: UNIVERSITY OF CALIFORNIA, BERKELEY (PEER)  
Contact Person: Amarnath Kasalanati  
Mailing Address: 325 Davis Hall, Berkeley CA 94720-1729  
Telephone: (510) 642-3437 Email: peer\_center@berkeley.edu

Company Name: UNIVERSITY OF BUFFALO (SEESL)  
Contact Person: Mark Pitman  
Mailing Address: 212 Ketter Hall, Buffalo NY 14260  
Telephone: (716) 645-4377 Email: mpitman@buffalo.edu

Company Name: WYLE LABORATORIES  
Contact Person: Greg Mason  
Mailing Address: 7800 Highway 20 West, Huntsville AL 35806  
Telephone: (256) 837-4411 Email: greg.mason@nts.com

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





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**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.34(SDS = 1.78); 0.90(SDS = 2.00)

SDS (Design spectral response acceleration at short period, g) = 1.78(z/h = 1); 2.00(z/h = 0)

$a_p$  (Amplification factor) = 2.5

$R_p$  (Response modification factor) = 6.0

$\Omega_0$  (System overstrength factor) = 2.5

$I_p$  (Importance factor) = 1.5

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

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

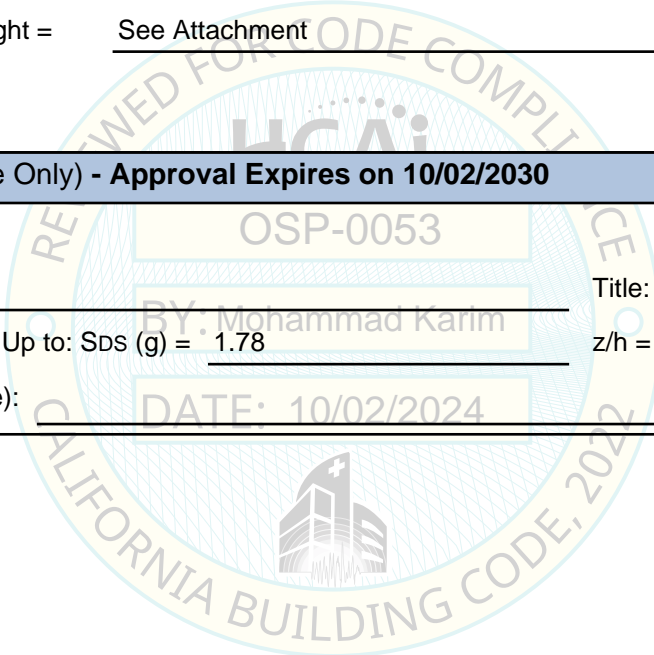
**HCAI Approval (For Office Use Only) - Approval Expires on 10/02/2030**

Date: 10/2/2024

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 1.78 z/h = 1

Condition of Approval (if applicable): DATE: 10/02/2024











**Manufacturer:** Square D by Schneider Electric  
**Product Type:** Switchgear – Medium Voltage  
**Model Line:** HVL/cc

**Seismic Parameters**

$S_{DS} = 1.78g$  for  $z/h=1$        $I_p = 1.5$   
 $S_{DS} = 2.00g$  for  $z/h=0$

**Building Codes**

**CBC 2022**

**TABLE 3**      Table Description: Voltage Transformers

Component (Manufacturer)	Model	Description	Notes	UUT
Voltage Transformer (ITI/GE)	PTG3160242FGC1	2400V/120V; Cu Windings; 34 lbs.		1
	PT*	3000V/120V; Cu Windings; 34 lbs.		Interp.
	PT*	4200V/120V; Cu Windings; 34 lbs.		Interp.
	PT*	7200V/120V; Cu Windings; 85 lbs.		Interp.
	PT*	8400V/120V; Cu Windings; 85 lbs.		Interp.
	PT*	12000V/120V; Cu Windings; 85 lbs.		Interp.
	PTG52SD02293FFG	12470V/120V; Cu Windings; 85 lbs.		5
	PT*	13200V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	13800V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	16500V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	20780V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	22860V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	23000V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	24940V/120V; Cu Windings; 125 lbs.		Interp.
	PT*	26400V/120V; Cu Windings; 125 lbs.		Interp.
	PTG61125SD03591	27000V/120V; Cu Windings; 125 lbs.		2
	Voltage Transformers (Amran)	V9*	2400V/120V; Cu Windings; 35 lbs.	
V9-422FFGC2-01		4200V/120V; Cu Windings; 35 lbs.		11
V9*		4200V/120V; Cu Windings; 35 lbs.		Interp.
V9*		4800V/120V; Cu Windings; 35 lbs.		Interp.
V21*		4200V/120V; Cu Windings; 90 lbs.		Interp.
V21*		4800V/120V; Cu Windings; 90 lbs.		Interp.
V21*		6600V/110V; Cu Windings; 90 lbs.		Interp.
V21*		7200V/120V; Cu Windings; 90 lbs.		Interp.
V21*		8400V/120V; Cu Windings; 90 lbs.		Interp.
V21.1-2-123FF		12000V/120V; Cu Windings; 90 lbs.		11
V21*		12000V/120V; Cu Windings; 90 lbs.		Interp.
V21*		12470V/120V; Cu Windings; 90 lbs.		Interp.
V21*		13200V/120V; Cu Windings; 90 lbs.		Interp.
V21*		13800V/120V; Cu Windings; 90 lbs.		Interp.
V21*		14400V/120V; Cu Windings; 90 lbs.		Interp.
V22*		10200V/120V; Cu Windings; 125 lbs.		Interp.
V22*		12000V/120V; Cu Windings; 125 lbs.		Interp.
V22*	13200V/120V; Cu Windings; 125 lbs.		Interp.	





**Manufacturer:** Square D by Schneider Electric  
**Product Type:** Switchgear – Medium Voltage  
**Model Line:** HVL/cc

**Seismic Parameters**

$S_{DS} = 1.78g$  for  $z/h=1$        $I_p = 1.5$   
 $S_{DS} = 2.00g$  for  $z/h=0$

**Building Codes**

**CBC 2022**

**TABLE 4**      Table Description: Control Power Transformers

Component (Manufacturer)	Model	Description	Notes	UUT
Control Power Transformers (ITI/GE)	CPTS3605242A	5kVA, 2400V/120V; Cu Windings; 165 lbs.		2
	CPTS36054161A	5kVA, 4160V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS3605482A	5kVA, 4800V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS5955722A	5kVA, 7200V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS5955123A	5kVA, 12000V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS59551242A	5kVA, 12470V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS59551322A	5kVA, 13200V/120V; Cu Windings; 165 lbs.		Interp.
	CPTS36010242A	10kVA, 2400V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS360104161A	10kVA, 4160V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS36010482A	10kVA, 4800V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS59510722A	10kVA, 7200V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS59510123A	10kVA, 12000V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS595101242A	10kVA, 12470V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS595101322A	10kVA, 13200V/120V; Cu Windings; 250 lbs.		Interp.
	CPTS36015242A	15kVA, 2400V/120V; Cu Windings; 290 lbs.		Interp.
	CPTS360154161A	15kVA, 4160V/120V; Cu Windings; 290 lbs.		Interp.
	CPTS36015482A	15kVA, 4800V/120V; Cu Windings; 290 lbs.		Interp.
	CPTS59515722A	15kVA, 7200V/120V; Cu Windings; 290 lbs.		Interp.
	CPTS59515123A	15kVA, 12000V/120V; Cu Windings; 290 lbs.		Interp.
	CPTS595151242A	15kVA, 12470V/120V; Cu Windings; 290 lbs.		5
CPTS595151322A	15kVA, 13200V/120V; Cu Windings; 290 lbs.		Interp.	
CPTS36025242A	25kVA, 2400V/120V; Cu Windings; 411 lbs.		Interp.	
CPTS360254161A	25kVA, 4160V/120V; Cu Windings; 411 lbs.		2	
CPTS36025482A	25kVA, 4800V/120V; Cu Windings; 411 lbs.		Interp.	



UUT	Model	Test Report	Test Laboratory	S <sub>DS</sub>	z/h	I <sub>p</sub>
1	1-15 kV, NEMA 3R, Non Walk-in Masterclad Switchgear	SEESL-2014-11 Rev 4 (UUT1)	Structural and Earthquake Engineering and Simulation Laboratory (SEESL)	1.92 2.11	1 0	1.5
2	27-38 kV, NEMA 3R, Non Walk-in Masterclad Switchgear	SEESL-2014-11 Rev 4 (UUT2)	Structural and Earthquake Engineering and Simulation Laboratory (SEESL)	1.88 2.00	1 0	1.5
3	2.4-17.5 kV, NEMA 3R, HVL/cc Load Current Interrupter Switchgear	SEESL-2014-11 Rev 4 (UUT3)	Structural and Earthquake Engineering and Simulation Laboratory (SEESL)	1.86 2.10	1 0	1.5
4	1-15 kV, NEMA 1, HVL Load Interrupter Switchgear	SEESL-2014-11 Rev 4 (UUT4)	Structural and Earthquake Engineering and Simulation Laboratory (SEESL)	1.88 2.10	1 0	1.5
5	5-15 kV, NEMA 3R, Non Walk-in Masterclad / HVL Switchgear	PEER-STI/2014-04R Rev01 (UUT1)	Structural and Earthquake Engineering and Simulation Laboratory (SEESL)	1.88 2.70	1 0	1.5
6	2.4-17.5 kV, NEMA Type 1, HVL/cc Load Current Interrupter Switchgear	50246-1 (UUT1, Config 1)	Wyle (NTS Huntsville)	2.06 2.38	1 0	1.5
7	2.4-17.5 kV, NEMA Type 1, HVL/cc Load Current Interrupter Switchgear	58835R11 (UUT1)	Wyle (NTS Huntsville)	1.78 3.30	1 0	1.5
8	27-38 kV, NEMA 1, HVL/cc Load Current Interrupter Switchgear	71369R13 (UUT1)	Wyle (NTS Huntsville)	1.98 2.07	1 0	1.5
9	2.4-17.5 kV, NEMA Type 1, HVL/cc Load Current Interrupter Switchgear	50246-1 (UUT1, Config 4)	Wyle (NTS Huntsville)	2.46 2.46	1 0	1.5
10	15 kV, NEMA 3R, HVL/cc Load Current Interrupter Switchgear	15602 (UUT3)	Environmental Testing Laboratory (ETL)	2.00 2.50	1 0	1.5
11	15 kV Main & Feeder Masterclad Switchgear	TR241399-01-R1 (UUT2)	Environmental Testing Laboratory (ETL)	1.86 2.98	1 0	1.5

Notes:



























## UUT 9

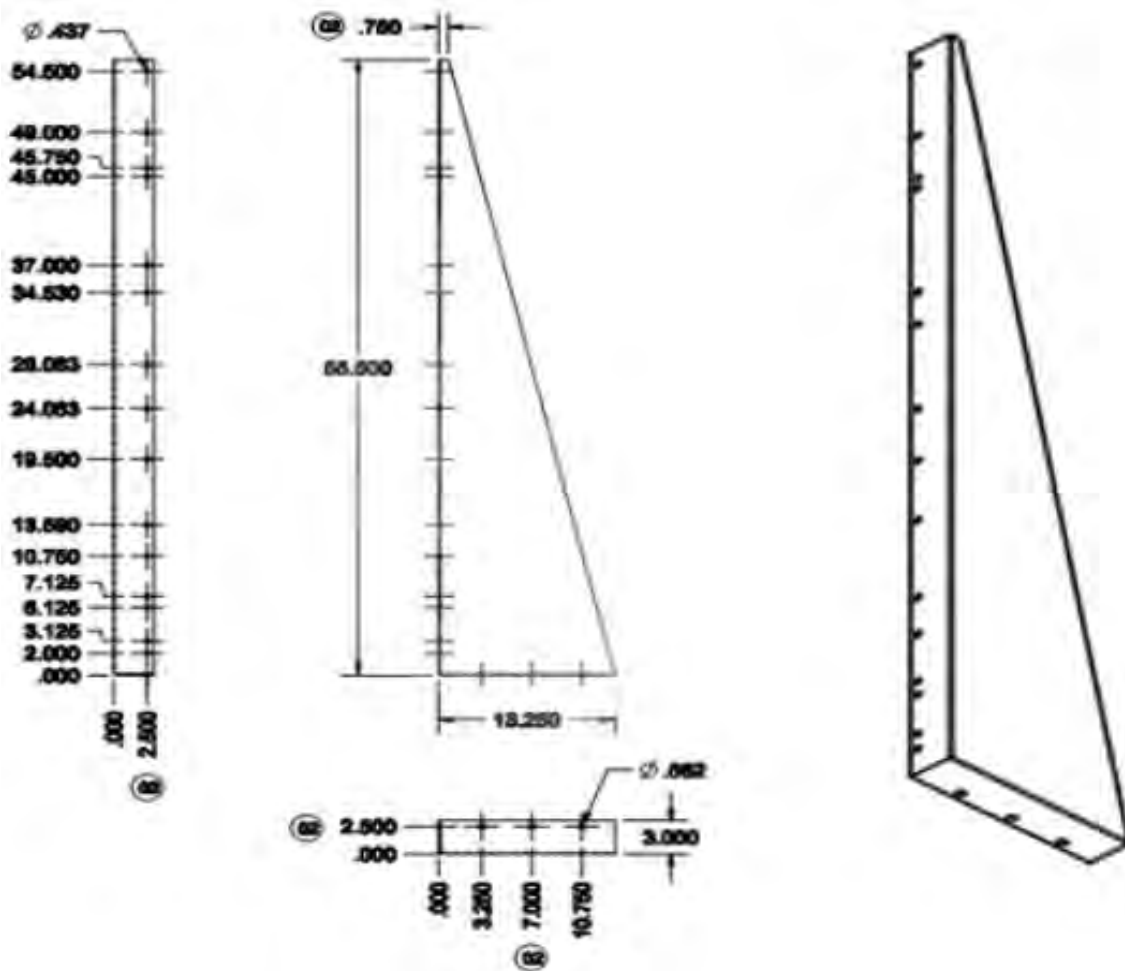
Test Report# 50246-1  
(UUT1, Config 4)

**Manufacturer:** Square D by Schneider Electric  
**Model Line:** HVL/cc  
**Model Number:** FO# 17-32879443-235  
**Serial Number:** N/A

### Highest Passed Test Level

$S_{DS}$	$z/h$	$I_p$	$A_{flx-h}$	$A_{rig-h}$	$A_{flx-v}$	$A_{rig-v}$
2.46	1	1.5	3.94	2.95	1.64	0.66
2.46	0					

### Support Fabrication Drawings:



- NOTES:**  
 1.) MATERIAL: 11 GA STEEL PER E20002  
 2.) FINISH: PAINT PER E27131-C1  
 3.) BEND RADIUS: PER 80030-06-002

## UUT 10

Test Report# 15602  
(UUT3)

**Manufacturer:** Square D by Schneider Electric  
**Model Line:** HVL/cc  
**Model Number:** 42191916-003  
**Serial Number:** N/A

Highest Passed Test Level						
S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.00	1	1.5	3.20	2.40	1.67	0.67
2.50	0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
47.25	29.5	99.75	1388.5

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
26.0	6.2	>33.3

Building Codes
CBC 2022

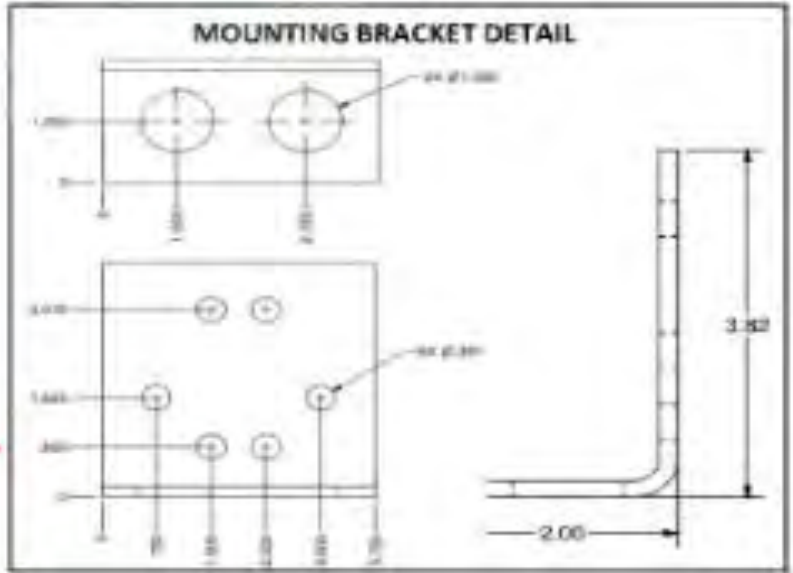
Test Criteria
ICC-ES AC156

Construction/Option Summary
NEMA Type 3R, non walk-in enclosure constructed of carbon steel

### UUT Mounting Details:

### List of Included Subcomponents

Description	Model #
Surege Arrester	9L11XPM015S
OTM Switch Mechanism	44044-241-51



Unit was rigid base mounted using (4) 7 ga. external mounting brackets with (1) 1/2" Grade 5 bolt each, torqued to 65 ft.-lbs.

Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

