

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFIC	E USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #:	OSP – 0058
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: 🗌 New 🛛 Renewal		
Manufacturer Information		
Manufacturer: Square D by Schneider Electric		
Manufacturer's Technical Representative: Scott Littler, Principal Tech	nical Expert	
Mailing Address: 330 Weakley Lane, Smyrna, TN 37167		
Telephone: 615-267-9407	ttler@se.com	
Product Information	Mp,	
Product Name: Modular Panelboard System (MPS) SHPD	TT I	
Product Type: Integrated Power and Control Solutions (IPaCS)	· Fr	
Product Model Number: Varies (see attachment) (List all unique product identification numbers and/or part numbers) Varies (see attachment) General Description: Wall mounted distribution and control panelbo	lin ard sections (modular).	
Mounting Description: Rigid – wall mounted		
Applicant Information	ODE	
Applicant Company Name: TRU Compliance, by Structural Integrity A	ssociates, Inc	
Contact Person: Galen Reid		
Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702		
Telephone: <u>844-TRU-0200</u> Email: <u>greid@</u>)structint.com	
I hereby agree to reimburse the Office of Statewide Health F accordance with the California Administrative Code, 2016. Signature of Applicant:	Planning and Develo	
	-	al Integrity Associates, Inc
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY		OSHPD
OSH-FD-759 (REV 12/16/15)	1 di la marca	Page 1 of 3



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: TRU Compliance, by Structural Integrity Associates, Inc
Name: Andy Coughlin, SE California License Number: S6082
Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702
Telephone: 844-TRU-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): OSP-0058
Testing Laboratory DATE: 04/06/2021
Company Name: Applied Technical Services, Inc. (ATS)
Contact Name: David Common
Mailing Address: 1049 Triad Court, Marietta, GA 30062 Telephone: (678) 444-2908
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:Qual Tech NP by Curtiss-WrightContact Name:Jason VonNidaMailing Address:4600 Each Tech Drive, Cincinnati, OH 45245
Telephone: (513) 201-2139 Email: jvonnida@curtisswright.com

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

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04/06/2021

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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes □ No
Design Basis of Equipment or Components (F _p /W _p) = <u>1.43 (z/h=1.0), 0.88 (z/h=0.0)</u>
S_{DS} (Design spectral response acceleration at short period, g) = <u>1.91 (z/h=1.0)</u> , <u>1.96 (z/h=0.0)</u>
a_p (In-structure equipment or component amplification factor) = <u>2.5</u>
R _p (Equipment or component response modification factor) = <u>6.0</u>
Ω_0 (System overstrength factor) = 2.0
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = <u>1 and 0</u>
Equipment or Component Natural Frequencies (Hz) = <u>(See Attachment)</u>
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) =
S _{DS} (Design spectral response acceleration at short period, g) =
S _{D1} (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
$Ω_0$ (System overstrength factor) = BY: William Staehlin
C₄ (Deflection amplification factor) =
I_p (Importance factor) = 1.5 DATE: 04/06/2021
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 🖾 No
ABUILDING
List of Attachments Supporting Special Seismic Certification
☐ Test Report(s) ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog
Other(s) (Please Specify): Product Matrices
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Signature: Date: April 6, 2021
Print Name: William Staehlin Title: Senior Structural Engineer
Special Seismic Certification Valid Up to : S _{DS} (g) = <u>See Above</u> z/h = <u>See Above</u>
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15) Page 3 of 3

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX



<i>Manufacturer: Model Line:</i>	Square D by Schneider Modular Panelboard Sy	TABLE 1						
Certified Product Con)	- /					
NEMA type 1 framed en	closure constructed of	powder-co	oated carb	on steel sh	neet.			
Certified Options Sun	nmary:							
MPS sections consist of	f a mix of pre-wired NQ,	NF, and I-	LINE pane	lboards . S	PD is optio	nal (see	e certified subcompone	nt tables)
Mounting Configurati	ion:	- 0	RCO	DFC				
Wall mounted - rigid					MA			
Note: Installed mounting cor	nfiguration must be of similar	configuratio	n and equiva	lent strengt				
Building Code: CBC 20	019	Seismic C	Certificati	on Limits:			z/h=1.0 z/h=0.0	= <i>1.5</i>
Madallina	Model	Di	mensions	(in)58	Weight	m		
Model Line	Model	Depth	Width	Height	(lb)		Notes	UUT
		B\6.0	illi <i>2</i> 0n	St <i>a</i> tehl	in 97		UUT:120V, 225A	1
Modular Panelboard System (MPS)		9.5	20	43	191			Interp
	Distribution and Control Section	9.5	04/06/	20^{86} 1	200			Interp
		9.5	14	86	250	208	8-600V, up to 1200A	Interp
		9.5	20	86	382		<i>i</i> 1	Interp
	\ <u>`</u> /	9.5	26	86	748			Interp
		9.5	44	86	848			Interp
		9.5/	BUIL 1	86	848		UUT:600V, 1200A	2,6
			UILI					
								+
								+
								+
								+

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX



Aodel Line:	Modular Panelboard Syste	ectric em (MPS)		TABLE 2	
Building Code: CBC 2019		Seismic Certification Limits: $S_{DS} = 1.91 g z/h = 1.0$ $S_{DS} = 1.96 g z/h = 0.0$			
Component Type	Manufacturer	Model	RCODEDescription	No	tes UU
		FA36100	600V, 100A, 6 lbs.		2
		B*	208-600V, 15-125A, 4 lbs.		Inte
		E*	208-600V, 15-150A, 6 lbs.		Inte
		4*	208-600V, 15-150A, 5 lbs.		Inte
		Q*	120-240V, 70-250A, 5 lbs.		Inte
Molded Case Circuit Breakers (2 Pole and 3 Pole)	Savara D	J*	208-600V, 150-250A, 5 lbs.		Inte
	Square D	OL*	208-600V, 250-600A, 14 lbs.		Inte
(2 FOLE and 3 FOLE)		M*	208-600V, 300-800A, 29 lbs.		Inte
		P*	208-600V, 250-1200A, 36 lbs.		Inte
		PGA36120	600V, 1200A, 36 lbs.		2
		R*	208-600V, 1000-1200A, 52 lbs.		Inte
		RJA36120	600V, 1200A, 52 lbs.		2,
		Q0*	120-240V, 15-20A, 1 lb.		Extr
		QOB130	120V, 30A, 1 lb.		1
Miniature Circuit		QO*	120-240V, 20-150A, 1 lb.		Inte
Breakers	Square D	E*	120-480V, 15A, 2 lbs.		Inte
(2 Pole and 3 Pole)		EDB14020	480V, 20A, 2 lbs.		3
		E*	120-480V, 20-125A, 4 lbs.		Inte
		EDB34125	480V, 125A, 4 lbs.		3
The sub-components	listed here include part n	umbers which provided ide	entify configuration, manufacturer, and materia	als. Tested sub-com	ponents and
•	•	•	s and have similar configuration and construct		

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX



Manufacturer: Model Line:	Square D by Schneider E Modular Panelboard Sys		Table Description: Panelboards		TABLE 3	
Building Code: CBC 2	-		Seismic Certification Limits: $S_{DS} = 1.91 g \ z/h = 1.0$ $S_{DS} = 1.96 g \ z/h = 0.0$ $I_P = 1.5$			
Component Type	Manufacturer	Model	RCODEDescription	Notes	UUT	
		NQ430L2	240V, 225A, 97 lbs.		1	
		NQ*	240V, 100-800A, 300 lbs.		Interp	
		NF*	600V, 100-800A, 300 lbs.		Interp	
Panelboards	Square D	NF442L8C	600V, 800A, 300 lbs.		4	
		HCP50864	600V, 400A, I-Line Family, 540 lbs.		5	
		HC* By. M	600V, 400-1200A, I-Line Family, 540-826 lbs.		Inter	
		HCRU548612U	600V, 1200A, I-Line Family, 826 lbs.		2	
		DATE	04/06/2021			
		2	+			
		TNI,	BUILDINGCOT			
-		-	ntify configuration, manufacturer, and materials.		ents and	
terpolated/extrapola	ated items have the same	manufacturer and materials	and have similar configuration and construction	as the tested units.		

SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX



1801106-CR-001 R0

<i>Manufacturer: Model Line:</i>	Square D by Schneider E Modular Panelboard Sys		Table Description: Surge Protect	tive Devices (SPD)	TABLE 4
Building Code: CBC 2		Seismic Certifica	ation Limits: $S_{DS} = 1.91 g z/h$ $S_{DS} = 1.96 g z/h$		
Component Type	Manufacturer	Model	FOR CODE Description	No	tes UUT
SurgeLoc	Square D	SSP02BIA24PBQ1	William Staehlin		
		C ALLAORA	14 BUILDING CODE:		

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com



UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	۱ _P
1	Panelboard – NQ			1.91	1	1.5
-	(UUT1 in test report))	D202332 NCV1	Services, Inc. (ATS)	1.96	0	1.5
2	Panelboard – I–Line	51551-4	NTS - Huntsville	2.11	1	1.5
	(UUT 1 in test report)		(Formerly Wyle Labs)	3.59	0	
3	Panelboard – NF	0Q016.0	Curtiss-Wright	2.34	1	1.5
	(0Q016-02-01-01 in test report)		(Formerly Trentec, Inc.)	2.70	0	
4	Panelboard – NF	E 20007.0 DE C	Curtiss-Wright	2.33	1	1.5
	(2Q007-02-01-01 in test report)	ED	(Formerly Trentec, Inc.)	3.43	0	
5	Panelboard – I-Line (UUT2 in test report)	71437R13	NTS - Huntsville (Formerly Wyle Labs)	2.25	1	1.5
	Panelboard – I-Line	USTIFU	NTS - Huntsville	2.55 2.17	1	
6	(UUT1 in test report)	585 4RH-1000		3.26	0	1.5
	0	BY: William Stae	hlin I			
	CRU		00E-200			
		ORNIA BUILDING	CO			
otes:						

1801106-CR-001 R0



Manufacturer:	Square D	by Schneider Electr	ic					.		1	
Model Line:	Modular P	anelboard System	(MPS)						JUT		
Model Number:	Panelboar	rd – NQ			Serial N	umber:	1233580	04200300	00		
Product Constru	ction Summary	<i>':</i>									
NEMA type 1 fram	ed enclosure co	nstructed of powde	er-coated ca	arbon steel	sheet.						
Options/Subcom	ponent Summa	ary:									
		Square D molded ca				•					
breaker(QOB330),	, Square D minia	iture circuit breaker	r(QOB130),	Square D S	urgeLogi	c surge p	protection	device (S	SP02BIA2	24PBQ1)	
			ORC	ODFC							
		0	FORC		M						
		NE									
				operties		Z					
Weight		Dimension (in)		0050			1	al Frequency (Hz)			
(lb)	Depth	Width		ight 58	7/7	-Back		Side-Side		Vertical	
97	6	20		44		/A	N	/A	N	/A	
		UUT Highes	•••••••			ation			1		
Buildin	g 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	
CBC 2019		ICC-ES AC156 (2012)		6/202	1.0	1.5	3.06	2.29	1.31	0.52	
Test Mounting De				1.96	0.0	Va/					
			A BUI	LDING	CODE						
				N. C.		K					

(4) 3/8–16 grade 5 bolts and flat washers at 30 ft–lbs torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1801106-CR-001 R0



Manufacturer:	Square D b	y Schneider Electric					.	JUT	า	
Model Line:	Modular Pa	anelboard System (N	MPS)						2	
Model Number:	Panelboard	d – I–Line		Serial Num	nber:	1219629	39000100	01		
Product Constru	=									
NEMA type 1 fram	ned enclosure cor	nstructed of powder-	-coated carbon steel	sheet.						
Options/Subcon	=	-								
		•	ed case circuit break			•				
breaker (PGA3612	20), Square D mol		aker (KCA36250), Squ		led cas	se circuit t	oreaker (F	A36100).		
		5	ORCODEC							
		EDF		MA						
		,N'	<u> </u>							
			UUT Properties	Y	1		_	<i></i> .		
Weight		Dimension (in)	105D-0058			t Natural				
(lb)	Depth	Width	OS Height 58	Front-Back			-Side		rtical	
826	9.5	44	86	N/A		N	/A	N	/A	
Buildir	ng Code	Test Crite	Passed Seismic Rur ria S _{DS} (g)	z/h		A (a)	A (g)	A (a)	A (a	
Buituii	Building CodeTest Criteria $S_{DS}(g)$ z/h I_P $A_{FLX-H}(g)$ CDC COLOR (100 FG)CDC COLOR (100 FG)CDC COLOR (100 FG)CDC COLOR (100 FG)CDC COLOR (100 FG)		A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g				
CBC	2019	ICC-ES AC156	(2004)/0 - 2.112	0.0	1.5 3.59 2.53		2.39	0.96		
Test Mounting D	etails:				5		1			
				JE?						
		A AN	1.5	02						
			BUILDING							
		111-	Contraction (
				1						
				-						
			Pa	and the second s						
		Det.								
				- FREE						
				-						
			And a state of the	- set						
				AT -						
$(2) 3/8 - 16 \sigma rade F$	bolts and flat w	ashers at 30 ft–lbs to	raue located at bott	m and stan	ydard y	vall mour	t at top u	cing(A) 2	/8-16	

(2) 3/8–16 grade 5 bolts and flat washers at 30 ft–lbs torque located at bottom and standard wall mount at top using (4) 3/8–16 grade 5 bolts at 30 ft–lb torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1801106-CR-001 R0



Manufacturer:	Square D	by Schneider Electric	2							2	
Model Line:	Modular Panelboard System (MPS)						UUT 3				
							99-002-01				
Product Constru	-										
NEMA type 1 fram	ed enclosure co	nstructed of powder	-coated ca	arbon steel	sheet.						
Options/Subcom	-	-									
	•	–002), Square D molo			-	•••••					
breaker(EDB3412	5), Square D mir	niature circuit breake				ure circu	lit breaker	(EDB140.	20).		
		-	ORCO	ODEr							
		EDF		ODEC	MA						
		NE	~~~								
			UUT Pr	operties		Z1					
Weight		Dimension (in)		0050			1	atural Frequence			
(lb)	Depth	Width		ight)58	Front-Back		Side-Side		Vertical		
243	8	26		30		/A	N	N/A		N/A	
		UUT Highest	v man								
CBC 2019		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	
				6/2.342	1.0	1.5	3.74	2.81	1.80	0.72	
				2.70	0.0	$\sqrt{\alpha}$					
Test Mounting D	-tans.	Contraction of the second			TE	0					
		1 PN	401	DING	OPT						
			T	L DIN							
		All a second			A STALL						
			A 100 M 10 10 M 10 M		State With All State						
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			June -								
			And the second second								
			and the second								
			A STATE OF THE STA								
			State of the second								

(4) 5/16–18 grade 2 bolts and flat washers at 150 in–ib torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1801106-CR-001 R0



Model Line:	Square D	by Schneider Electr	ic							Л	
mouel Emer	Modular F	anelboard System	(MPS)					J	JUT	4	
Model Number:	Panelboa	rd – NF			Serial N	umber:	P000697	-002-M2			
Product Constru	-										
NEMA type 1 fran	ned enclosure co	nstructed of powde	r–coated ca	arbon steel	sheet.						
Options/Subcor	nponent Summ	ary:									
Square D panelb	oard - factory as	sembled only (NF44	2L8C), Squa	are D minia	ture circı	uit break	er(EDB341	.00), Squa	are D min	iature	
circuit breaker(E	DB14020), Squar	e D molded case cir	cuit breake	er (LAL36400	D).						
		ED	FORC	ODEC	OMO						
		L. K.	UUT Pr	operties		Z					
Weight		Dimension (in)		0050				Natural Frequend			
(lb)	Depth	Width		ight)58	Front-Back		Side-Side		Vertical		
300	8.75	26 92 N/A				N,	N/A		N/A		
		UUT Highes	•••••••								
Building 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	
CBC	2019	ICC-ES AC150	5 (2004)/()	6/ <u>2,33</u> 3.43	1.0 0.0	1.5	3.73	2.80	2.29	0.92	
		20007-0	2-01-01	PING	CODE	2					

manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1801106-CR-001 R0



UUT 5

Manufacturer:Square D by Schneider ElectricModel Line:Modular Panelboard System (MPS)

Model Number: Panelboard – I–Line

Serial Number: 2013SEISMIC002

Product Construction Summary:

NEMA type 1 framed enclosure constructed of powder-coated carbon steel sheet.

Options/Subcomponent Summary:

Square D panelboard (HCP50864), Square D molded case circuit breaker (QDA221004), Square D molded case circuit breaker (QDA32200), Square D molded case circuit breaker (HDA36030), Square D molded case circuit breaker (JDA36200), Square D molded case circuit breaker (JDA36250U31X), Square D molded case circuit breaker (LA36400), Square D molded case circuit breaker (PGA36080CU31A), Square D molded case circuit breaker (PGA36100).

		4	UUT Pre	operties		Z					
Weight	Dimension (in)				Lowest Natural Frequency (Hz)						
(lb)	Depth	Width	OS Height 58		Front-Back		Side-Side		Vertical		
540	9.5	42	8	6	N/A		N/A		N/A		
		UUT Highe.	st Passed Se	eismic Run	Informa	ation					
Building Code		Test Criteria		S _{DS} (g)	z/h	I _P O	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2019		ICC-ES AC156 (2004) / 0 (2,25	1.0	1 5	3.60	2.70	1.70	0.68	
				2.55	0.0	1.5	3.00 2.70		1.70	0.00	





(8) 3/8–16 grade 5 bolts and flat washers at 25 ft–lbs torque. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1801106-CR-001 R0



UUT 6

Manufacturer:Square D by Schneider ElectricModel Line:Modular Panelboard System (MPS)

Model Number: Panelboard – I–Line

Serial Number: HCR548612U

Product Construction Summary:

NEMA Type 1 constructed of carbon steel sheet with a powder coated finish.

Options/Subcomponent Summary:

Side extension, I-line Interior (HCRU548612U), Square D molded case circuit breaker (RJA36120), Square D molded case circuit breaker (JLA36250U54X), Square D molded case circuit breaker (HJA26150), Square D molded case circuit breaker (LLA36600U54X), Square D molded case circuit breaker (PJA36800), Square D molded case circuit breaker (HLA36150U54X)

		4	UUT P	roperties		Z					
Weight	Dimension (in)				Lowest Natural Frequency (Hz)						
(lb)	Depth	Width	OS Height 58		Front-Back		Side-Side		Vertical		
848	9.5	44		86	N/A		N/A		N/A		
		UUT Highe.	st Passed S	Seismic Run	Inform	ation					
Building Code		Test Criteria		S _{DS} (g)	z/h	I _P O	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g	
CBC 2019			c (2000)/(6/2,172	1.0	1 5	3.47	2.6	2.17	0.87	
		ICC-ES AC156 (2000)		3.26	0.0	1.5	5.41 2.0		2.17	0.07	





Rigid wall mounted using (8) 3/8"-16 grade 5 bolts and flat washers in the main enclosure, and (8) 3/8"-16 grade 5 bolts and flat washers in the side extension, all torqued to 30 ft-lbs.

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