

	OFFICE	USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #	OSP - 0078
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: New Renewal		
Manufacturer Information		
Manufacturer: Siemens Industry, Inc.		
Manufacturer's Technical Representative: <u>Michael White</u>		
Mailing Address:501 Fountain Parkway, Grand Prairie, TX 75050		
Telephone: (817) 652-6460	elwhite@siemens.com	_
Product Information	MD,	
Product Name: Siemens Panelboards OSHPD	T	
Product Type: Metalclad Panelboards OSP-0078	R	
Product Model Number:P1, P2, P3, P4, P5, C1, C2 wall mounted pa (List all unique product identification numbers and/or part numbers) OTA J Pila General Description:Wall mounted panelboards that divides electric	nelboards (see attached) nd cal power to feed to bran) ch circuits
Mounting Description: Rigid wall mounted	600	
Applicant Information	ODE	
Applicant Company Name: W.E. Gundy & Associates, Inc.		
Contact Person: Travis Soppe, SE		
Mailing Address: 1199 Shoreline Dr. Suite 310, Boise, ID 83702		
Telephone: (208) 342-5989 Ext. 115 Email: tsoppe	@wegai.com	
I hereby agree to reimburse the Office of Statewide Health I accordance with the California Administrative Code, 2016.	Planning and Develo	pment review fees in
Signature of Applicant:	Date:	11/08/2019
Title: President Company Name: W.E. C	Sundy & Associates, Inc.	
"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)	MMM	OSHPD Page 1 of 3



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name:W.E. Gundy & Associates, Inc.
Name: Travis Soppe, SE California License Number: S6115
Mailing Address:
Telephone: (208) 342-5898 Ext. 115 Email: tsoppe@wegai.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-0078
BY:Timothy J Piland
Testing Laboratory DATE: 05/26/2020
Company Name:
Contact Name: Jeremy Lange / Greg Mason
Mailing Address:
Telephone: (972) 247-9657 / (256) 837-4411 Email: Jeremy@etIdallas.com / Greg.Mason@wyle.com

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



Page 2 of 3

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parame	eters
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Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes □ No
Design Basis of Equipment or Components (F_p/W_p) = <u>1.35 ($z/h = 1$); 1.13 ($z/h = 0$)</u>
S_{DS} (Design spectral response acceleration at short period, g) = <u>1.80 (z/h = 1); 2.50 (z/h = 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
I_p (Importance factor) = 1.5
z/h (Height factor ratio) = <u>1 and 0</u>
Equipment or Component Natural Frequencies (Hz) = <u>See Attachments</u>
Overall dimensions and weight (or range thereof) =See Attachments
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No
Design Basis of Equipment or Components (V/W) =
S _{DS} (Design spectral response acceleration at short period, g) =
Sp1 (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
Ω_0 (System overstrength factor) = py Timothy Piland
C₄ (Deflection amplification factor) =
$I_{\mathbb{P}}(\text{Importance factor}) = 1.5$
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 X No
List of Attachments Supporting Special Seismic Certification
🛛 Test Report(s) 🗌 Drawings 🗌 Calculations 🗌 Manufacturer's Catalog
Other(s) (Please Specify): Certified Product Matrix, UUT Summary Sheets, Subcomponent Certification Letter
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
1/1/0
Signature: Date: May 26, 2020
Print Name: Timothy J. Piland Title: SSE
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

SIEMENS PANELBOARDS CERTIFIED PRODUCT LINE MATRIX										
ID Number	Panel Type	Main Breaker Amperage	NEMA Rating	Enclosure Width (in.)	Enclosure Depth (in.)	Enclosure Height (in.)	Total WT (lbs)	Representative UUT		
C1-100 to C1-250	column	100-250A	1	7.6"	5.75"	48" - 85"	100-125	Interpolated		
C2-100 to C2-250	column	100-250A	1	8.5"	5.75"	48" - 85"	100-125	Interpolated		
C2-250	column	250A	1	8.5"	5.75"	85"	123	UUT _y -18		
P1-100 to P1-400	lighting	100-400A	1/4/4x/3R/12	20"0	5.75" - 7.75"	26" - 74"	80-250	Interpolated		
P1-250	lighting	250A	4x	20"	5.75"	38"	93	UUT _y -16		
P1-250	lighting	250A		20"	5.75"	44"	132	UUT _x -12		
P2-100 to P2-600	lighting	125-600A	1 / 4 / 4x / 3R/12	-0020"8	5.75" - 7.75"	26" - 74"	80-250	Interpolated		
P2-600	lighting	600A	1	20"	7.75"	71"	213	UUT _x -13		
P3-250 to P3-600	lighting	250-60 <mark>0</mark> A	1 / 4 7 4x / 3R 7 12	y J ₂₄ "llar	7.75" - 9.5"	56" - 80"	80-340	Interpolated		
P3-250	lighting	250A	DA^{3R} 05/2	6/24 20	7.75"	80"	277	UUT _y -17		
P3-600	lighting	600A		24"	7.75	68"	340	UUT _x -15		
P4-400 to P4-1200	distribution	400-1200A	1/4/4x/3R/12	32"	10"	60" - 90"	480-720	Interpolated		
P4-1000	distribution	1000A	o 4x	32"	10"	90"	528	UUT _y -19		
P5-1200	distribution	1200A	3R ^A BUI	LD 38"G	14.25"	90"	760	UUT _y -20		
P5-400-P5-1200	distribution	400-1200A	1 / 4 / 4x / 3R / 12	38"	12.75" - 14.25"	60" - 90"	600-900	Interpolated		
P5-1200	distribution	1200A	1	38"	12.75"	90"	900	UUT _x -14 ²		

General Notes:

¹ Subscripts x and y indicate the test report in which the units were qualified: x -46143-2, y-15314

² Denotes the controlling UUT for the product family seismic rating (lowest tested SDS)

SIEMENS PANELBOARDS CERTIFIED SUBCOMONENT MATRICES								
Subcomponent ID	Manufacturer		Description	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Representative UUT
		Ta	ble 1: Molded Case Breakers	s - Sentroi	1			
FD6, FXD6	Siemens		2/3P	4.5"	4.0"	9.5"	10	UUT _x -12 / 13 / 14 / 15
FD6, FXD6	Siemens	4	2/3P	4.5"	4.0"	9.5"	10	UUT _y -16 / 18 / 19
HFD6, HFXD6	Siemens	50A	2/3P, HIC R CODE	4.5"	4.0"	9.5"	10	Interpolated
HHFD6, HHFXD6	Siemens	70-2	2/3P, EHIC	4.5"	4.0"	9.5"	10	Interpolated
CFD6	Siemens		2/3P, Highest IC & CL	4.5"	4.0"	14.25"	16	UUT _y -19
SCFD6	Siemens	1	2/3P, ETU, Highest IC & CL	4.5"	4.0"	14.25	16	Interpolated
JXD2	Siemens	4	2/3P OSP-0078	7.5"	4.0"	11.0"	19.5	Interpolated
JD6, JXD2	Siemens		2/3P	7.5"	<mark>4</mark> .0"	11.0"	19.5	UUT _x -14 / UUT _y -19
HJ66, HJXD6, HHJD6	Siemens	0A	2/3P, HIC, HHICOV I Pilar	7.5"	<mark>4</mark> .0"	11.0"	19.5	Interpolated
HHJXD6	Siemens	-40	2/3P, HHIC	7.5"	<mark></mark> .0"	11.0"	19.5	Interpolated
SJD6, SHJD6	Siemens	25(2/3P, ETU. 05/26/2020	7.5"	<mark>4</mark> .0"	11.0"	19.5	Interpolated
CJD6	Siemens		2/3P, Highest IC & CL	7.5"	4.0"	17.0"	31.5	Interpolated
SCJD6	Siemens	Ţ	2/3P, ETU, Highest IC & CL	7.5'0	4.0"	17.0"	31.5	Interpolated
LD6, LXD6	Siemens		2/3P,	7.5"	4.0"	11.0"	19.5	UUT _x -13 / 14 / 15
HLD6, HLXD6	Siemens	▼	2/3P, HIC	7.5"	4.0"	11.0"	19.5	Interpolated
HHLD6, HHLXD6	Siemens	2007	2/3P, HHIC BUILDING	7.5"	4.0"	11.0"	19.5	Interpolated
SLD6, SHLD6	Siemens	50-0	2/3P, ETU	7.5"	4.0"	11.0"	19.5	Interpolated
CLD6	Siemens	7	2/3P, Highest IC & CL	7.5"	4.0"	17.86"	31.5	Interpolated
SCLD6	Siemens		2/3P, ETU, Highest IC & CL	7.5"	4.0"	17.86"	31.5	Interpolated

General Notes:

Subscripts $_x$ and $_y$ indicate the test report in which the units were qualified: $_x$ - 46143-2, $_y$ - 15314

² All Sentron breakers can be installed with either thermal mag (no prefix) or electronic trip unit (S prefix)

SIEMENS PANELBOARDS CERTIFIED SUBCOMONENT MATRICES										
Subcomponent ID	Manufacturer		Description	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Representative UUT		
Table 1: Molded Case Breakers - Sentron										
MD6, MXD6	Siemens		2/3P	9.0"	6.0"	16.0"	61.5	UUT _x -14		
HMD6, HMXD6	Siemens		2/3P, HIC	9.0"	6.0"	16.0"	61.5	Interpolated		
SMD6, SHMD6	Siemens	0A	2/3P, ETU & HIC ODE	9.0"	6.0"	16.0"	61.5	UUT _y -20		
CMD6	Siemens)-80	2/3P, Highest IC & CL	9.0"	6.0"	16.0"	61.5	Interpolated		
SCMD6	Siemens	50(2/3P, ETU, Highest IC & CL	9.0"	6.0"	16.0"	61.5	Interpolated		
LMD6, LMXD6	Siemens		2/3P, ODTPD	7.5"	4.5"	16.0"	61.5	Interpolated		
HLMD6, HLMX6D	Siemens	4	2/3P, HIC OSP-0078	7.5"	4.5"	16.0"	61.5	Interpolated		
ND6, NXD6	Siemens		2/3P,	9.0"	<mark>6</mark> .0"	16.0"	61.5	UUT _x -14		
HND6, HNXD6	Siemens	00A	2/3P, HICmothy I Pilar	9.0"	<mark>6</mark> .0"	16.0"	61.5	Interpolated		
SND6, SHND6	Siemens	-12(2/3P, ETU & HIC	9.0"	<mark>6</mark> .0"	16.0"	61.5	Interpolated		
CND6	Siemens	800	2/3P, Highest IC & CL	9.0"	<mark>6</mark> .0"	16.0"	61.5	Interpolated		
SCND6	Siemens		2/3P, ETU, Highest IC & CL	9.0"	6.0"	16.0"	61.5	UUT _y -20		
		7	Table 2: Molded Case Breake	ers - 3VA						
3VA51	Siemens	125 250 4	3/4P, TM, ETU	3.0"	3.68"	5.51"	4.7	Interpolated		
3VA52	Siemens	125-250A	3/4P, TM, ETU	4.13"	4.21"	7.28"	5.2	UUT _y -17 / 19		
3VA62	Siemens	150 400 4	3/4P, TM, ETUUILDING	4.13"	4.21"	7.80"	10.5	UUT _y -19		
3VA63	Siemens	130-400A	3/4P, TM, ETU	5.43"	5.4"	9.75"	10.5	Interpolated		
3VA64	Siemens	600A	3/4P, TM, ETU	5.43"	5.4"	9.75"	10.5	Interpolated		
General Notes:										

¹ Subscripts $_x$ and $_y$ indicate the test report in which the units were qualified: $_x$ - 46143-2, $_y$ - 15314

² All Sentron breakers can be installed with either thermal mag (no prefix) or electronic trip unit (S prefix)

SIEMENS PANELBOARDS CERTIFIED SUBCOMONENT MATRICES								WEGAI M.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHOUAKE ENGINEERING		
Subcomponent ID	Manufacturer		Description Width Depth Height Weigh (in) (in) (in) (lbs)							
Table 3: Molded Case Breakers - VL										
FG6	Siemens		2/3P	4.5"	4.0"	9.5"	10	Interpolated		
HFG6	Siemens	70-250A	2/3P, HIC	4.5"	4.0"	9.5"	10	UUT _y -18		
HHFG6	Siemens		2/3P, EHIC R CODE	4.5"	4.0"	9.5"	10	Interpolated		
NJGA	Siemens		2/3P	4.2"	4.5"	11.0"	12.6	Interpolated		
HJGA	Siemens	250-400A	2/3P, HIC	4.2"	4.5"	11.0"	12.6	Interpolated		
LJGA	Siemens		2/3P, HHIC	4.2"	4.5"	11.0"	12.6	Interpolated		
NLGB	Siemens	4	2/3P, OSP-0078	4.2"	5.5"	11.0"	20.9	Interpolated		
HLGB	Siemens	250- <mark>600A</mark>	2/3P, HIC	4.2"	<mark>5</mark> .5"	11.0"	20.9	Interpolated		
LLGB	Siemens		2/3P, HHICnothy I Pilar	<mark>4</mark> .2"	<mark>5</mark> .5"	11.0"	20.9	Interpolated		
NMG	Siemens	0	2/3P,	4.7"	<mark>7</mark> .5"	16.0"	35.3	Interpolated		
HMG	Siemens	500- <mark>800A</mark>	2/3P, HIC 05/26/2020	4.7"	7.5"	16.0"	35.3	Interpolated		
LMG	Siemens		2/3P, HHIC	4.7"	7.5"	16.0"	35.3	UUT _y -19		
		R	able 4: Molded Case Breake	ers - 3VL						
3VL400	Siemens	250-600A	3P, TM, ETU, LCD ETU	5.5"	5.5"	11.0"	20.5	UUT _y -19		
3VL800	Siemens	600-800A	3P, TM, ETU, LCD ETU	7.5"	6.0"	16.0"	35.0	Interpolated		
3VL1200	Siemens	800-1200A	3P, TM, ETU, LCD ETU	9.0"	8.0"	16.0"	55.0	UUT _y -20		
			Table 5: Lighting Contac	ctors						
	Siemens	30-200A		4.2"	3.9"	7.4"	9.0	UUT _v -17		

SIEMENS PANELBOARDS CERTIFIED SUBCOMONENT MATRICES									
Subcomponent ID	Manufacturer	Description	Representative UUT						
		Table 6: Surge Protection I	Device						
TPS3AL115XXXX	Siemens	120/240V, 1 Ph 3 W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated		
TPS3BL215XXXX	Siemens	120/240V, 3 Ph, 4W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated		
TPS3CL115XXXX	Siemens	120/208V, 3 Ph, 4W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	UUT _y -16		
TPS3	Siemens	240V, 3Ph, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated		
TPS3	Siemens	277/480V, 3 Ph, 4W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated		
TPS3	Siemens	480V, 3Ph, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated		
TPS3	Siemens	380/220V, 3 Ph, 4W, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	Interpolated		
TPS3	Siemens	400/230V, 3 Ph, 4W, 100 kA - 500kA	11.5"	<mark>4</mark> .5"	10.75"	6.8 - 9.8	Interpolated		
TPS3F2005XXXX	Siemens	600V, 3 Ph, 100 kA - 500kA hy I Pilan	d ^{11.5} "	<mark>4</mark> .5"	10.75"	6.8 - 9.8	UUT _y -19		
General Notes:									
¹ Subscripts $_{x}$ and $_{y}$ indicat	e the test report i	n which the units were qualified: x - 46143-2, y	- 15314						

RNIA BUILDING COD

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UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Wall mounted with 4 - 1/2" diameter grade 5 bolts.



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Wall mounted with 4 - 1/2" diameter grade 5 bolts.



SEISMIC TEST PARAMETERS - Run #7									
Test Criteria	$S_{DS}(g)$	z / h	Ip	A_{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}		
CBC 2019 / ICC-ES-AC156	1.80	1	1.5	2.88g	2.16g	-	-		
CBC 2019 / ICC-ES-AC156	2.50	0	1.5	-	-	1.67g	0.67g		

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x -14.

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Wall mounted with 4 - 1/2" diameter grade 5 bolts.



Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. This is the controlling UUT for the Panelboard product line.

1.5

0

2.50

CBC 2019 / ICC-ES-AC156

0.67g

1.67g

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Wall mounted with 4 - 1/2" diameter grade 5 bolts.



Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x -14.



Mounting Details: Wall mounted with 4 - 3/8" diameter grade 5 bolts.



however the product family is limited to a lower level based on testing of UUT_x -14.

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Wall mounted with 4 - 3/8" diameter grade 5 bolts.





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Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. UUT was tested at the level shown on this sheet however the product family is limited to a lower level based on testing of UUT_x -14.