



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0078

OSHPD Special Seismic Certification Preapproval (OSP)

Type: [ ] New [X] Renewal

Manufacturer Information

Manufacturer: Siemens Industry, Inc.

Manufacturer's Technical Representative: Michael White

Mailing Address: 501 Fountain Parkway, Grand Prairie, TX 75050

Telephone: (817) 652-6460 Email: michaelwhite@siemens.com

Product Information

Product Name: Panelboards

Product Type: Panelboards

Product Model Number: P1, P2, P3, P4, P5, C1, C2 wall mounted panelboards (see attached)

General Description: Wall mounted panelboards that divides electrical power to feed to branch circuits

Mounting Description: Rigid, Wall Mounted

Tested Seismic Enhancements: None DATE: 07/29/2021

Applicant Information

Applicant Company Name: W.E. Gundy & Associates, Inc.

Contact Person: Travis Soppe

Mailing Address: 1199 Shoreline Dr, Suite 310, Boise, ID 83702

Telephone: (208) 342-5989 Email: tsoppe@wegai.com

Title: SE





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION**

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

Company Name: W.E. GUNDY & ASSOCIATES INC.

Name: Travis Soppe

California License Number: S6115

Mailing Address: P.O. Box 9121, Boise, ID 83707

Telephone: (208) 342-5989

Email: tsoppe@wegai.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 752293513

Telephone: (972) 247-9657

Email: Jeremy@etldallas.com

Company Name: WYLE LABORATORIES

Contact Person: Don Smith

Mailing Address: 7800 Highway 20 West, Huntsville AL 35806

Telephone: (256) 837-4411

Email: Don.smith@wyle.com





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
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**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.35 (z/h = 1); 1.13 (z/h = 0)

SDS (Design spectral response acceleration at short period, g) = 1.80 (z/h = 1); 2.50 (z/h = 0)

$a_p$  (Amplification factor) = 2.5

$R_p$  (Response modification factor) = 6.0

$\Omega_0$  (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

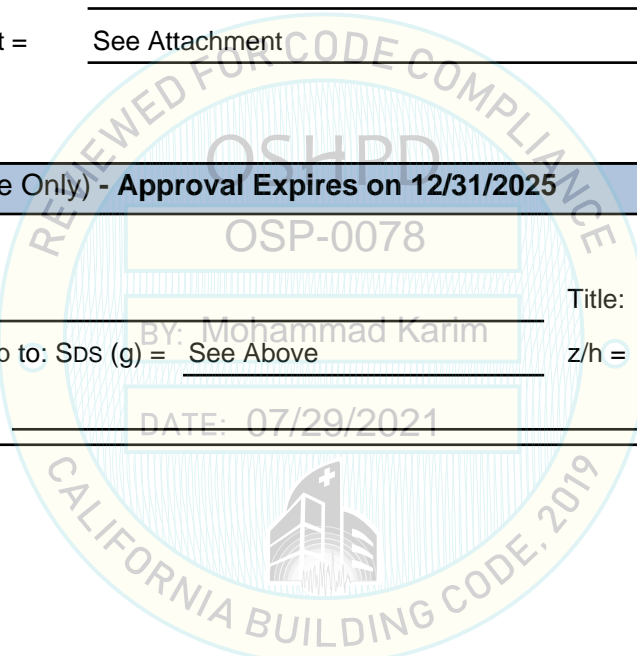
**OSHPD Approval (For Office Use Only) - Approval Expires on 12/31/2025**

Date: 7/29/2021

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: 07/29/2021



## 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 <sub>y</sub> -18
P1-100 to P1-400	lighting	100-400A	1 / 4 / 4x / 3R / 12	20"	5.75" - 7.75"	26" - 74"	80-250	Interpolated
P1-250	lighting	250A	4x	20"	5.75"	38"	93	UUT <sub>y</sub> -16
P1-250	lighting	250A	1	20"	5.75"	44"	132	UUT <sub>x</sub> -12
P2-100 to P2-600	lighting	125-600A	1 / 4 / 4x / 3R / 12	20"	5.75" - 7.75"	26" - 74"	80-250	Interpolated
P2-600	lighting	600A	1	20"	7.75"	71"	213	UUT <sub>x</sub> -13
P3-250 to P3-800	lighting	250-800A	1 / 4 / 4x / 3R / 12	24" - 30"	7.75" - 9.5"	56" - 80"	80-340	Interpolated
P3-250	lighting	250A	3R	24"	7.75"	80"	277	UUT <sub>y</sub> -17
P3-600	lighting	600A	1	24"	7.75"	68"	340	UUT <sub>x</sub> -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	4x	32"	10"	90"	528	UUT <sub>y</sub> -19
P5-400 to P5-1200	distribution	400-1200A	1 / 4 / 4x / 3R / 12	32"	12.75"	60" - 90"	480-720	Interpolated
P5-1200	distribution	1200A	3R	38"	14.25"	90"	760	UUT <sub>y</sub> -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 <sub>x</sub> -14 <sup>2</sup>

**General Notes:**

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

<sup>2</sup> 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	
<b>Table 1: Molded Case Breakers - Sentron</b>								
FD6, FXD6	Siemens	70-250A	2/3P	4.5"	4.0"	9.5"	10	UUT <sub>x</sub> -12 / 13 / 14 / 15
FD6, FXD6	Siemens		2/3P	4.5"	4.0"	9.5"	10	UUT <sub>y</sub> -16 / 18 / 19
HFD6, HFXD6	Siemens		2/3P, HIC	4.5"	4.0"	9.5"	10	Interpolated
HHFD6, HHFXD6	Siemens		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 <sub>y</sub> -19
SCFD6	Siemens		2/3P, ETU, Highest IC & CL	4.5"	4.0"	14.25"	16	Interpolated
JXD2	Siemens		250-400A	2/3P	7.5"	4.0"	11.0"	19.5
JD6, JXD2	Siemens	2/3P		7.5"	4.0"	11.0"	19.5	UUT <sub>x</sub> -14 / UUT <sub>y</sub> -19
HJ66, HJXD6, HHJD6	Siemens	2/3P, HIC, HHIC		7.5"	4.0"	11.0"	19.5	Interpolated
HHJXD6	Siemens	2/3P, HHIC		7.5"	4.0"	11.0"	19.5	Interpolated
SJD6, SHJD6	Siemens	2/3P, ETU		7.5"	4.0"	11.0"	19.5	Interpolated
CJD6	Siemens	2/3P, Highest IC & CL		7.5"	4.0"	17.0"	31.5	Interpolated
SCJD6	Siemens	2/3P, ETU, Highest IC & CL		7.5"	4.0"	17.0"	31.5	Interpolated
LD6, LXD6	Siemens	250-600A	2/3P,	7.5"	4.0"	11.0"	19.5	UUT <sub>x</sub> -13 / 14 / 15
HLD6, HLXD6	Siemens		2/3P, HIC	7.5"	4.0"	11.0"	19.5	Interpolated
HHL6, HHLXD6	Siemens		2/3P, HHIC	7.5"	4.0"	11.0"	19.5	Interpolated
SLD6, SHLD6	Siemens		2/3P, ETU	7.5"	4.0"	11.0"	19.5	Interpolated
CLD6	Siemens		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:**

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

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

## SIEMENS PANELBOARDS CERTIFIED SUBCOMPONENT MATRICES



Subcomponent ID	Manufacturer	Description	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Representative UUT
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**Table 1: Molded Case Breakers - Sentron**

MD6, MXD6	Siemens	500-800A	2/3P	9.0"	6.0"	16.0"	61.5	UUT <sub>x</sub> -14
HMD6, HMXD6	Siemens		2/3P, HIC	9.0"	6.0"	16.0"	61.5	Interpolated
SMD6, SHMD6	Siemens		2/3P, ETU & HIC	9.0"	6.0"	16.0"	61.5	UUT <sub>y</sub> -20
CMD6	Siemens		2/3P, Highest IC & CL	9.0"	6.0"	16.0"	61.5	Interpolated
SCMD6	Siemens		2/3P, ETU, Highest IC & CL	9.0"	6.0"	16.0"	61.5	Interpolated
LMD6, LMXD6	Siemens		2/3P,	7.5"	4.5"	16.0"	61.5	Interpolated
HLMD6, HLMX6D	Siemens		2/3P, HIC	7.5"	4.5"	16.0"	61.5	Interpolated
ND6, NXD6	Siemens		800-1200A	2/3P,	9.0"	6.0"	16.0"	61.5
HND6, HNXD6	Siemens	2/3P, HIC		9.0"	6.0"	16.0"	61.5	Interpolated
SND6, SHND6	Siemens	2/3P, ETU & HIC		9.0"	6.0"	16.0"	61.5	Interpolated
CND6	Siemens	2/3P, Highest IC & CL		9.0"	6.0"	16.0"	61.5	Interpolated
SCND6	Siemens	2/3P, ETU, Highest IC & CL		9.0"	6.0"	16.0"	61.5	UUT <sub>y</sub> -20

**Table 2: Molded Case Breakers - 3VA**

3VA51	Siemens	125-250A	3/4P, TM, ETU	3.0"	3.68"	5.51"	4.7	Interpolated
3VA52	Siemens		3/4P, TM, ETU	4.13"	4.21"	7.28"	5.2	UUT <sub>y</sub> -17 / 19
3VA62	Siemens	150-400A	3/4P, TM, ETU	4.13"	4.21"	7.80"	10.5	UUT <sub>y</sub> -19
3VA63	Siemens		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:**

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

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

## SIEMENS PANELBOARDS CERTIFIED SUBCOMPONENT MATRICES



Subcomponent ID	Manufacturer	Description	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Representative UUT	
<b>Table 3: Molded Case Breakers - VL</b>								
FG6	Siemens	70-250A	2/3P	4.5"	4.0"	9.5"	10	Interpolated
HFG6	Siemens		2/3P, HIC	4.5"	4.0"	9.5"	10	UUT <sub>y</sub> -18
HHFG6	Siemens		2/3P, EHIC	4.5"	4.0"	9.5"	10	Interpolated
NJGA	Siemens	250-400A	2/3P	4.2"	4.5"	11.0"	12.6	Interpolated
HJGA	Siemens		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	250-600A	2/3P,	4.2"	5.5"	11.0"	20.9	Interpolated
HLGB	Siemens		2/3P, HIC	4.2"	5.5"	11.0"	20.9	Interpolated
LLGB	Siemens		2/3P, HHIC	4.2"	5.5"	11.0"	20.9	Interpolated
NMG	Siemens	500-800A	2/3P,	4.7"	7.5"	16.0"	35.3	Interpolated
HMG	Siemens		2/3P, HIC	4.7"	7.5"	16.0"	35.3	Interpolated
LMG	Siemens		2/3P, HHIC	4.7"	7.5"	16.0"	35.3	UUT <sub>y</sub> -19
<b>Table 4: Molded Case Breakers - 3VL</b>								
3VL400	Siemens	250-600A	3P, TM, ETU, LCD ETU	5.5"	5.5"	11.0"	20.5	UUT <sub>y</sub> -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 <sub>y</sub> -20
<b>Table 5: Lighting Contactors</b>								
LEN00XXX	Siemens	30-200A		4.2"	3.9"	7.4"	9.0	UUT <sub>y</sub> -17

General Notes:

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

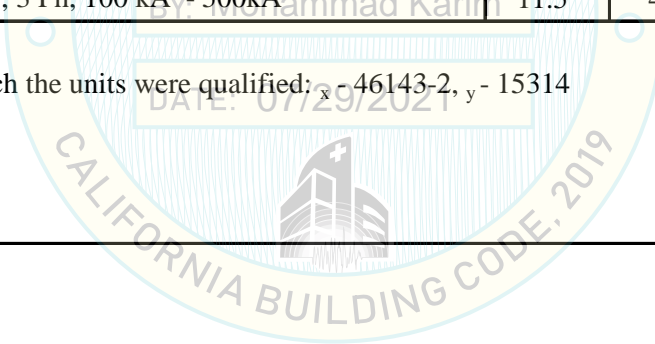
## SIEMENS PANELBOARDS CERTIFIED SUBCOMONENT MATRICES



Subcomponent ID	Manufacturer	Description	Width (in)	Depth (in)	Height (in)	Weight (lbs)	Representative UUT
<b>Table 6: Surge Protection Device</b>							
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 <sub>y</sub> -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"	4.5"	10.75"	6.8 - 9.8	Interpolated
TPS3F2005XXXX	Siemens	600V, 3 Ph, 100 kA - 500kA	11.5"	4.5"	10.75"	6.8 - 9.8	UUT <sub>y</sub> -19

**General Notes:**

<sup>1</sup> Subscripts <sub>x</sub> and <sub>y</sub> indicate the test report in which the units were qualified; <sub>x</sub> - 46143-2, <sub>y</sub> - 15314





UUT<sub>x</sub>-12

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



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



<b>Manufacturer:</b> Siemens Industry, Inc.	<b>Test Location:</b> Wyle Laboratories
<b>Product Line:</b> Panelboards	<b>Test Date:</b> April 1997
<b>Identification Number:</b> P1-250	<b>Report Number:</b> 46143-2
<b>UUT Function:</b> Lighting panelboard that divides electrical power feed to branch circuits.	
<b>UUT Description:</b> The unit is comprised of a NEMA 1 carbon steel P1 enclosure with internally mounted components.	
<b>UUT Component Description:</b> NEMA 1 carbon steel P1 enclosure with Sentron modeled case breakers: (1) FXD63B250, (1) QJ23B225, (8) B3100, (6) BQD3100.	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
132	20.0"	5.75"	44"	NA	NA	NA

**SEISMIC TEST PARAMETERS - Run #7**

Test Criteria	S <sub>DS</sub> (g)	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>
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<sub>x</sub>-14.

UUT<sub>x</sub>-13

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



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



<b>Manufacturer:</b> Siemens Industry, Inc.	<b>Test Location:</b> Wyle Laboratories
<b>Product Line:</b> Panelboards	<b>Test Date:</b> April 1997
<b>Identification Number:</b> P2-600	<b>Report Number:</b> 46143-2
<b>UUT Function:</b> Lighting panelboard that divides electrical power feed to branch circuits.	
<b>UUT Description:</b> The unit is comprised of a NEMA 1 carbon steel P2 enclosure with internally mounted components.	
<b>UUT Component Description:</b> NEMA 1 carbon steel P2 enclosure with Sentron modeled case breakers: (1) LXD63B600, (1) FXD63B250, (1) QJ23B, (6) BQD3100.	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
213	20.0"	7.75"	71"	NA	NA	NA

**SEISMIC TEST PARAMETERS - Run #7**

Test Criteria	S <sub>DS</sub> (g)	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>
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<sub>x</sub>-14.

UUT<sub>x</sub>-14

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



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



**Manufacturer:** Siemens Industry, Inc. **Test Location:** Wyle Laboratories

**Product Line:** Panelboards **Test Date:** April 1997

**Identification Number:** P5-1200 **Report Number:** 46143-2

**UUT Function:** Distribution panelboard that divides electrical power feed to branch circuits.

**UUT Description:** The unit is comprised of a NEMA 1 carbon steel P5 enclosure with internally mounted components.

**UUT Component Description:** NEMA 1 carbon steel P4 enclosure with Sentron modeled case breakers: (1) NXD63B120, (1) MXD63B800, (2) LXD63B600, (2) JXD63B400, (2) FXD63B250 (2) ED43B125, (4) B3100.

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
900	38.0"	12.75"	90.0"	NA	NA	NA

**SEISMIC TEST PARAMETERS - Run #5**

Test Criteria	S <sub>DS</sub> (g)	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>
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

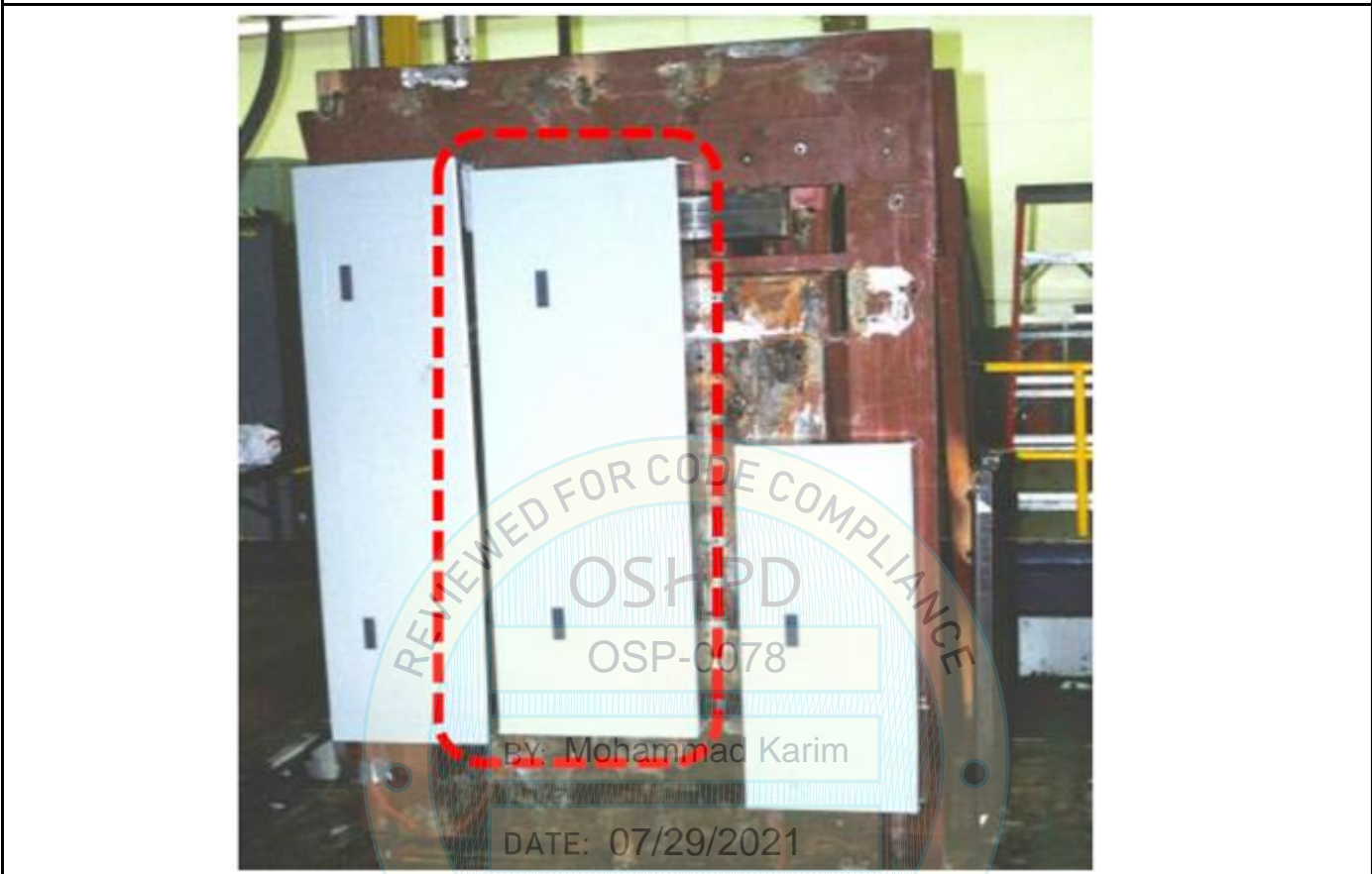
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. This is the controlling UUT for the Panelboard product line.

UUT<sub>x</sub>-15

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



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



**Manufacturer:** Siemens Industry, Inc.      **Test Location:** Wyle Laboratories

**Product Line:** Panelboards      **Test Date:** April 1997

**Identification Number:** P3-600      **Report Number:** 46143-2

**UUT Function:** Lighting panelboard that divides electrical power feed to branch circuits.

**UUT Description:** The unit is comprised of a NEMA 1 carbon steel P3 enclosure with internally mounted components.

**UUT Component Description:** NEMA 1 carbon steel P3 enclosure with Sentron modeled case breakers: (1) LXD63B600, (1) FXD63D250, (1) ED43B125, (10) ED43B125, (4) B3100.

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
340	24.0"	7.75"	68.0"	NA	NA	NA

**SEISMIC TEST PARAMETERS - Run #7**

Test Criteria	S <sub>DS</sub> (g)	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>
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<sub>x</sub>-14.

UUT<sub>y</sub>-16

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



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



<b>Manufacturer:</b> Siemens Industry, Inc.	<b>Test Location:</b> Environmental Testing Laboratory
<b>Product Line:</b> Panelboards	<b>Test Date:</b> July 2019
<b>Identification Number:</b> P1-250	<b>Report Number:</b> 15314 Rev. 0
<b>UUT Function:</b> Lighting panelboard that divides electrical power feed to branch circuits.	
<b>UUT Description:</b> The unit is comprised of a NEMA 4x stainless steel P3 enclosure with internally mounted components.	
<b>UUT Component Description:</b> NEMA 4x carbon stainless steel P1 enclosure, FD6 Breaker, BQD breaker, (7) B320 breakers, (6) B115 breakers, and surge protection device (TPS3CL).	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
93	20.0"	5.75"	38.0"	NA	NA	NA

**SEISMIC TEST PARAMETERS - Run #5**

Test Criteria	S <sub>DS</sub> (g)	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>
CBC 2019 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
CBC 2019 / ICC-ES-AC156	3.00	0	1.5	-	-	2.00g	0.81g

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<sub>x</sub>-14.

UUT<sub>y</sub>-17

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



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



**Manufacturer:** Siemens Industry, Inc.      **Test Location:** Environmental Testing Laboratory

**Product Line:** Panelboards      **Test Date:** July 2019

**Identification Number:** P3-250      **Report Number:** 15314 Rev. 0

**UUT Function:** Lighting panelboard that divides electrical power feed to branch circuits.

**UUT Description:** The unit is comprised of a NEMA 3R carbon steel P3 enclosure with internally mounted components.

**UUT Component Description:** NEMA 3R carbon steel P3 enclosure, lighting contactors (LEN00), Astro Time Clock, 3VA52 breaker, (6) Q350 reakers, and (4) QR breaker.

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
277	24.0"	7.75"	80.0"	NA	NA	NA

**SEISMIC TEST PARAMETERS - Run #2**

Test Criteria	S <sub>DS</sub> (g)	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>
CBC 2019 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
CBC 2019 / ICC-ES-AC156	3.00	0	1.5	-	-	2.00g	0.81g

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<sub>x</sub>-14.

**UUT<sub>y</sub>-18**

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



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



DATE: 07/29/2021

**Manufacturer:** Siemens Industry, Inc. **Test Location:** Environmental Testing Laboratory

**Product Line:** Panelboards **Test Date:** July 2019

**Identification Number:** C2-250 **Report Number:** 15314 Rev. 0

**UUT Function:** Column panelboard that divides electrical power feed to branch circuits.

**UUT Description:** The unit is comprised of a NEMA 1 carbon steel C2 enclosure with internally mounted components.

**UUT Component Description:** NEMA1 carbon steel C2 enclosure with VL (HFG6) modeled case breakers, and (10) BQD breakers,.

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
123	8.5"	5.75"	85.0"	NA	NA	NA

**SEISMIC TEST PARAMETERS - Run #5**

Test Criteria	S <sub>DS</sub> (g)	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>
CBC 2019 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
CBC 2019 / ICC-ES-AC156	3.00	0	1.5	-	-	2.00g	0.81g

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<sub>x</sub>-14.

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



REVIEWED FOR CODE COMPLIANCE  
OSHPD  
OSP-0078  
BY: Mohammad Karim  
DATE: 07/29/2021

<b>Manufacturer:</b> Siemens Industry, Inc.	<b>Test Location:</b> Environmental Testing Laboratory
<b>Product Line:</b> Panelboards	<b>Test Date:</b> July 2019
<b>Identification Number:</b> P4-1000	<b>Report Number:</b> 15314 Rev. 0
<b>UUT Function:</b> Distribution panelboard that divides electrical power feed to branch circuits.	
<b>UUT Description:</b> The unit is comprised of a NEMA 4x stainless steel P4 enclosure with internally mounted components.	
<b>UUT Component Description:</b> NEMA 4x carbon stainless steel P4 enclosure with sentron TPS3F SPD, (FXD6, JDX6, CFD6), VL (LMG), 3VA (3VA52, 3VA62), and 3VL (3VL400) molded case breakers.	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
528	32.0"	10.0"	90"	NA	NA	NA

**SEISMIC TEST PARAMETERS - Run #3**

Test Criteria	S <sub>DS</sub> (g)	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>
CBC 2019 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
CBC 2019 / ICC-ES-AC156	3.00	0	1.5	-	-	2.00g	0.81g

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. The UUT required modifications (thru bolt interior panel to enclosure backwall) to pass the test and modifications shall be incorporated in the production units. 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<sub>x</sub>-14.



UUT<sub>y</sub>-20

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



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



**Manufacturer:** Siemens Industry, Inc.      **Test Location:** Environmental Testing Laboratory

**Product Line:** Panelboards      **Test Date:** July 2019

**Identification Number:** P5-1200      **Report Number:** 15314 Rev. 0

**UUT Function:** Distribution panelboard that divides electrical power feed to branch circuits.

**UUT Description:** The unit is comprised of a NEMA 3R carbon steel P5 enclosure with internally mounted components.

**UUT Component Description:** NEMA 3R carbon steel P5 enclosure with sentron, VL (SMD6, SCND6), 3VL (3VL1200) molded case breakers and surge protection device (TPS3F2005).

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
760	38.0"	14.25"	90.0"	NA	NA	NA

**SEISMIC TEST PARAMETERS - Run #2**

Test Criteria	S <sub>DS</sub> (g)	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>
CBC 2019 / ICC-ES-AC156	2.00	1	1.5	3.2g	2.4g	-	-
CBC 2019 / ICC-ES-AC156	3.00	0	1.5	-	-	2.00g	0.81g

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<sub>x</sub>-14.