



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0057

HCAI Special Seismic Certification Preapproval (OSP)

Type: [ ] New [X] Renewal

Manufacturer Information

Manufacturer: Siemens Industry, Inc.

Manufacturer's Technical Representative: Vincent Baroncini

Mailing Address: 8 Fernwood Road, Florham Park, NJ 07932

Telephone: (973) 593-2682

Email: vincent.baroncini@siemens.com

Product Information

Product Name: Electrical Control Panels on Life Safety/Critical Branch

Product Type: Fire Protection & Security Panels

Product Model Number: Various (See Attachment)

General Description: Fire Control Panels with internal and external components as shown in the attachment.

Mounting Description: Rigid, Wall Mounted

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates

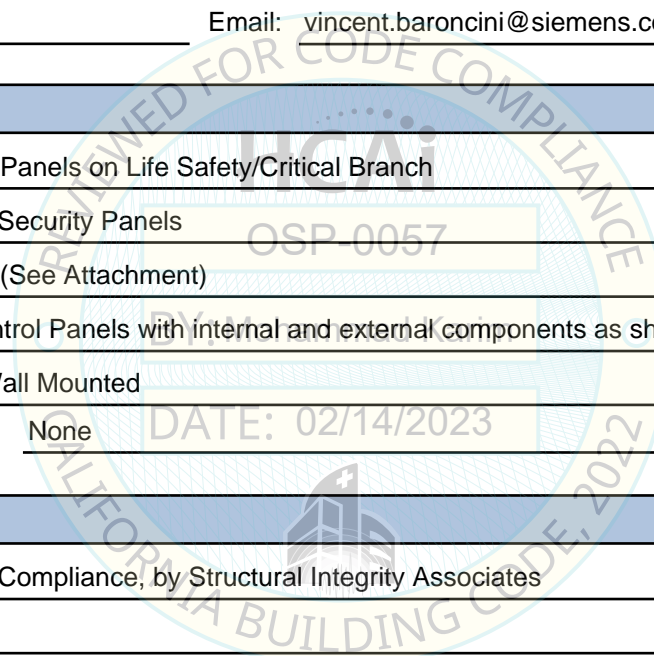
Contact Person: Daniel Zentner

Mailing Address: 233 SW Wilson Ave, Suite 101, Bend, OR 97702

Telephone: (541) 292-5839

Email: dzentner@structint.com

Title: Program Manager





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

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025
Telephone: (415) 635-8461 Email: acoughlin@structint.com

Certification Method

GR-63-Core [X] ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):

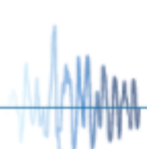
Testing Laboratory

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)
Contact Person: Clayton Forbes
Mailing Address: 1146 Massachusetts Avenue, Boxborough MA 01719
Telephone: (978) 266-1001 Email: clayton.forbes@nts.com

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)
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Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)
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Company Name: QUALTECH/CURTISS WRIGHT/TRENTEC
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**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.50 (z/h=1), 0.90 (z/h=0)

SDS (Design spectral response acceleration at short period, g) = 2.0

$a_p$  (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

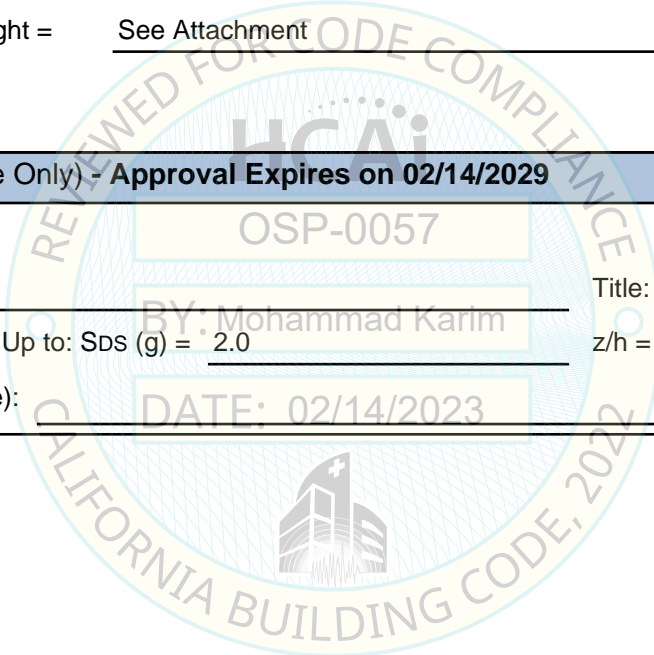
**HCAI Approval (For Office Use Only) - Approval Expires on 02/14/2029**

Date: 02/14/2023

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.0 z/h = 1 and 0

Condition of Approval (if applicable): DATE: 02/14/2023



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1700911-CR-001-R1



<b>Manufacturer:</b> Siemens Industry Inc.	<b>TABLE 1</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	

**Certified Product Construction Summary:**  
Painted, cold rolled carbon steel alarm cabinet enclosures, NEMA Type 1 enclosure.

**Certified Options Summary:**  
Options are listed in Table 2 and Table 3.

**Mounting Configuration:**  
Wall mounted - rigid  
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

**Building Code: CBC 2022**      **Seismic Certification Limits:**       $S_{DS} = 2.0g$      $z/h = 1.0$        $I_p = 1.5$   
 $S_{DS} = 2.0g$      $z/h = 0.0$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
Firefinder XLS, Desigo Life Safety Modular, and Cerberus PRO Modular	CAB-1	8.3	26.1	27.0	70	16 gauge UUT11: 64 lbs. UUT14: 62 lbs.	3, 11, 14
	CAB-2	8.3	26.1	44.8	90	16 gauge UUT15: 72 lbs.	9, 15
	CAB-3	8.3	26.1	62.5	173	16 gauge UUT16: 101 lbs.	6, 10, 16
	PAD-3	2.4	12.1	17.0	24	18 gauge	1
	PAD-4	2.4	12.1	17.0	27	18 gauge	2
	PAB-ENCL-R	3.8	16.0	24.0	28	Red enclosure	Interp.
	PAB-ENCL	3.8	16.0	24.0	28	Black enclosure	12
	PAB2-ENCL-R	5.5	16.0	40.0	49	Red enclosure	Interp.
	PAB2-ENCL	5.5	16.0	40.0	49	Black enclosure	13
	REMBOX4	5.0	24.0	19.0	33	16 gauge	4, 5
	CAB-BATT	7.0	26.0	12.0	136	16 gauge UUT 7: w/(2) - 100AH UUT 8: w/(2) - 55AH (84 lbs.)	7, 8

# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>Table Description:</b> Enclosure Parts	<b>TABLE 2</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular		

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0g$ $z/h = 1.0$	$I_P = 1.5$
		$S_{DS} = 2.0g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Enclosure	Siemens	CAB1	Cabinet (Doors and Back Box)		3, 14
		CAB1R	Cabinet (Doors and Back Box), Red	Same as CAB1 (color)	Interp.
		CAB2	Cabinet (Doors and Back Box)		9, 15
		CAB2-BB	Back Box	Part of CAB2	9
		CAB2R	Cabinet (Doors and Back Box), Red	Same as CAB2 (color)	Interp.
		CAB2-RB	Back Box, Red	Part of CAB2R	Interp.
		CAB2-X	CAB2 with Transponder Door	CAB2 with CAB2-XBD	Interp.
		CAB3	Cabinet		6, 10, 16
		CAB3-BB	Back Box	Part of CAB3	6, 10
		CAB3R	Cabinet	Same as CAB3 (color)	Interp.
		CAB3-RB	Back Box	Part of CAB3R	Interp.
		CAB3-X	CAB3 with Transponder Door	Similar to CAB3 (without inner door)	Interp.
		CAB-BATT	Enclosure for Batteries		7, 8
		CAB-BATT/R	Enclosure for Batteries	Same as CAB-BATT (color)	Interp.
		EN-PAD	Enclosure for PAD-3		1
		EN-PADR	Enclosure for PAD-3	Same as EN-PAD (color)	Interp.
		PAD-3	Enclosure		1
		PAD-3R	Enclosure	Same as PAD-3 (color)	Interp.
		PAD-4	Enclosure		2
		REMBOX2	Enclosure	Similar to REMBOX4 (smaller size)	Interp.
		REMBOX4	Enclosure		4, 5
		PAB-ENCL	Pad & AMP Booster ENCL 1HU Black	Part of Smaller PAD-5	12
		PAB-ENCL-R	Pad & AMP Booster ENCL 1HU Red	Same as PAB-ENCL (color)	Interp.
PAB2-ENCL	Pad & AMP Booster ENCL 2HU Black	Part of Larger PAD-5	13		
PAB2-ENCL-R	Pad & AMP Booster ENCL 2HU Red	Same as PAB2-ENCL (color)	Interp.		

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc. <b>Table Description:</b> Enclosure Parts		<b>TABLE 2</b>			
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular					
<b>Building Code:</b> CBC 2022		<b>Seismic Certification Limits:</b>		$S_{DS} = 2.0g$ $z/h = 1.0$ $S_{DS} = 2.0g$ $z/h = 0.0$	
				$I_p = 1.5$	
Component Type	Manufacturer	Model	Description	Notes	UUT
Bracket	Siemens	PAD3-BATT-BRKT	Battery Hold Down Bracket		1
		PAD4-BATT-BRKT	Battery Hold Down Bracket		2
		CAB-55-BRKT	Battery Hold Down Bracket		8, 9
		CAB-100-BRKT	Battery Hold Down Bracket		7, 10
		COM-BRK	Bracket for Fiber Modules		9, 10, 14
Door	Siemens	CAB2-BD	CAB2 Door Set		9
		CAB2-RD	CAB2R Door Set, Red	Same as CAB2-BD (color)	Interp.
		CAB2-XBD	CAB2 Transponder Door	Similar to CAB2-BD (without inner door)	Interp.
		CAB2-XRD	CAB2 Transponder Door, Red	Same as CAB2-XBD (color)	Interp.
		CAB3-BD	CAB3 Door Set	Part of CAB3	6, 10
		CAB3-RD	CAB3R Door Set, Red	Same as CAB3-BD (color)	Interp.
		CAB3-XBD	CAB3 Transponder Door	Similar to CAB3-BD (without inner door)	Interp.
		CAB3-XRD	CAB3 Transponder Door, Red	Same as CAB3-XBD (color)	Interp.
Plate	Siemens	ID-SP	Mounting Plate		3, 6
		REMBOX2-MP	Mounting Plate	Similar to REMBOX4-MP (smaller size)	Interp.
		REMBOX4-MP	Mounting Plate	Part of REMBOX4	5
		BCM	Blank Control Plate		3
		OD-BP	Blank Plate		6, 9, 10
		OD-BP-R	Blank Plate	Same as OD-BP (color)	Interp.
		OD-GP	Grill Plate	Similar to OD-BP (louver)	Interp.
		OD-GP-R	Grill Plate	Same as OD-GP (color)	Interp.
		OD-LP	Lens Plate		3, 6, 9, 10
		CAB-MP	Cabinet Mounting Plate		9, 10
		PAD-5 ADAPTER PLATE	Adapter Plate		12, 13

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

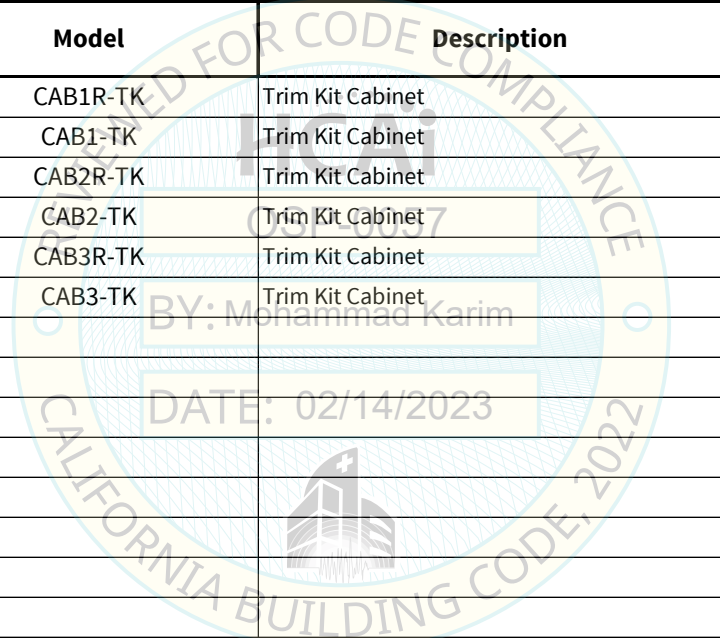
1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>Table Description:</b> Enclosure Parts	<b>TABLE 2</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular		

**Building Code:** CBC 2022      **Seismic Certification Limits:**       $S_{DS} = 2.0 g$      $z/h = 1.0$        $I_p = 1.5$   
 $S_{DS} = 2.0 g$      $z/h = 0.0$

Component Type	Manufacturer	Model	Description	Notes	UUT
Trim Kit	Siemens	CAB1R-TK	Trim Kit Cabinet	Same as CAB1-TK (color)	Interp.
		CAB1-TK	Trim Kit Cabinet	Part of CAB1	3
		CAB2R-TK	Trim Kit Cabinet	Same as CAB2-TK (color)	Interp.
		CAB2-TK	Trim Kit Cabinet	Part of CAB2	Interp.
		CAB3R-TK	Trim Kit Cabinet	Same as CAB3-TK (color)	Interp.
		CAB3-TK	Trim Kit Cabinet	Part of CAB3	6, 10



# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>Table Description:</b> Electrical Components	<b>TABLE 3</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular		

<b>Building Code:</b> CBC 2022	<b>Seismic Certification Limits:</b>	$S_{DS} = 2.0g$ $z/h = 1.0$	$I_p = 1.5$
		$S_{DS} = 2.0g$ $z/h = 0.0$	

Component Type	Manufacturer	Model	Description	Notes	UUT
Circuit Board	Siemens	AIC	Audio Input Card		6
		CC-2	Card Cage-2 slot	Similar to CC-5 (fewer slots)	Interp.
		CC-5	Card Cage-5 slot		3, 6, 9, 10, 16
		CDC-4	Detector Card	Same as NIC-C (label)	Interp.
		CRC-6	Detector Card	Same as NIC-C (label)	Interp.
		CSB	Sounder Board		6
		DAC-NET	Digital Audio Card		6, 9
		DLC	Device Loop Card		3
		FN2006	Fiber Optic Interface		9, 10
		FN2007	Fiber Optic Interface		9, 10
		FMT-A-ADPT	Wiring Adapter		6
		LPB	Local Page Board		6, 9
		MLC	MXL Line Card Loop		10
		NIC-C	Network Interface Card		6, 10, 14
		NRC	Network Ring Card		9, 10
		OCM-16	Output Control Module		5
		PFSA	AC Input Module		14, 15, 16
		PTB	Power Termination Board		3, 6, 9, 10
		RNI	Remote Network Interface		4, 5
		TZC-8B	FF Telephone Card		6
VESDA-NET-HLI	High Level Interface for Vesda		10		
VPM	Vesda Peripheral Module		10		
X200	Cloud Gateway Connection		16		
XDLC	Device Loop Card		11, 15		

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.		<b>Table Description:</b> Electrical Components			<b>TABLE 3</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular					
<b>Building Code:</b> CBC 2022		<b>Seismic Certification Limits:</b>			
		$S_{DS} = 2.0g \quad z/h = 1.0$		$I_P = 1.5$	
		$S_{DS} = 2.0g \quad z/h = 0.0$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Circuit Board	Siemens	XDMC	Digital Message Card		9
		XINC	Network Ring Card		15, 16
		LDC	Long Distance Copper Module	Used with XINC	15, 16
		FN2016-U1	Ethernet Module	Used with XINC	15, 16
		FN2017-U1	Multi-Mode Fiber Module	Used with XINC	15, 16
		FN2018-U1	Single-Mode Fiber Module	Used with XINC	Interp.
		XVCC	Voice Control Card		16
		ZAC-40	Zone Amplifier Card		6, 9, 16
		ZAM-180	Zone Amplifier Module		6
		ZIC-2C	Zone Adapter Card		3
		ZIC-4A	Zone Indicating Card		3, 10, 14, 15, 16
ZIC-8B	Zone Indicating Card		3		
Cable	Siemens	CCL	CAN-CABLE		6
Control Panel	Siemens	FCM-6	Fan Control Module		6
		LCM-8	LED Annunciator Module		6
		PMI	Operator Interface		3, 4, 6
		PMI-2	Personal Machine Interface		9, 10
		FCM2041-U2	Personal Machine Interface		11, 16
		FCM2041-U3	Personal Machine Interface		11, 16
Mounting Plate	Siemens	ID-MP	Door Mounting Plate		5, 6
		VPM-MP	Mounting Plate for VPM		10
Battery	Siemens	BT-33	7AH Battery		1, 2
		BTX-2	55 AH Battery		8, 9
		BTX-3	100 AH Battery		7, 10

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# SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.		<b>Table Description:</b> Electrical Components			<b>TABLE 3</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular					
<b>Building Code:</b> CBC 2022		<b>Seismic Certification Limits:</b>		$S_{DS} = 2.0g$ $z/h = 1.0$	$I_P = 1.5$
				$S_{DS} = 2.0g$ $z/h = 0.0$	
Component Type	Manufacturer	Model	Description	Notes	UUT
Battery Charger	Siemens	PSC-12	Power Supply & Battery Charger		3, 6, 9, 10
		PSX-12	Power Supply & Battery Charger		6
		PSC-12M	Power Supply & Battery Charger		14, 15, 16
		PSX-12M	Power Supply & Battery Charger	Similar to PSC-12M	Interp.
PA Microphone	Siemens	LVM	Live Voice Module		4, 6, 9
Telephone	Siemens	FMT	Fireman's Telephone		4, 6
Power Supply	Siemens	PAD-4-MB	Aux. Power Supply		2
		PAD-3-MB	Aux. Power Supply		1
		PAD-5-MB	Aux. Power Supply		12, 13
		PAD-5-CLSA	Aux. Power Supply		12, 13
		PAD-5-CDC	Aux. Power Supply		12, 13
Switch	Siemens	SCM-8	Switch Module		5, 6
		SIM-16	Switch Module		5
		FN2013-U1	Fiber Switch		14
		FN2014-U1 <sup>1</sup>	Fiber Switch	Similar to FN2013-U1	Interp.
		FN2006-U1 <sup>1</sup>	Fiber Switch	Similar to FN2013-U1	Interp.
		FN2007-U1 <sup>1</sup>	Fiber Switch	Similar to FN2013-U1	Interp.

**Notes:**  
 1. Construction of the fiber switches are identical to FN2013-U1, units differ in software only.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc. <b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular								
UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S <sub>DS</sub>	z/h	I <sub>P</sub>
1	PAD-3	Q9026.0 Rev.1	Qual Tech NP by Curtiss-Wright	2009	No <sup>1</sup>	2.0 2.0	1.0 0.0	1.5
2	PAD-4	Q9026.0 Rev.1	Qual Tech NP by Curtiss-Wright	2009	No <sup>1</sup>	2.0 2.0	1.0 0.0	1.5
3	CAB-1	Q9026.0 Rev.1	Qual Tech NP by Curtiss-Wright	2009	No <sup>1</sup>	2.0 2.0	1.0 0.0	1.5
4	REMBOX4 (config #1)	Q9026.0 Rev.1	Qual Tech NP by Curtiss-Wright	2009	No <sup>1</sup>	2.0 2.0	1.0 0.0	1.5
5	REMBOX4 (config #2)	Q9026.0 Rev.1	Qual Tech NP by Curtiss-Wright	2009	No <sup>1</sup>	2.0 2.0	1.0 0.0	1.5
6	CAB-3	Q9026.0 Rev.1	Qual Tech NP by Curtiss-Wright	2009	No <sup>1</sup>	2.0 2.0	1.0 0.0	1.5
7	CAB-BATT (2-100AH)	Q9026.0 Rev.1	Qual Tech NP by Curtiss-Wright	2010	No <sup>1</sup>	2.0 2.0	1.0 0.0	1.5
8	CAB-BATT (2-55AH)	Q9026.0 Rev.1	Qual Tech NP by Curtiss-Wright	2010	No <sup>1</sup>	2.0 2.0	1.0 0.0	1.5
9	CAB-2	PR032091, Rev. 4	NTS - Fullerton	2014	Yes	2.0 2.0	1.0 0.0	1.5
10	CAB-3	PR032091, Rev. 4	NTS - Fullerton	2014	Yes	2.0 2.0	1.0 0.0	1.5
11	CAB-1	PR069604.03, Rev. 0	NTS - Silicon Valley	2017	Yes	2.0 2.0	1.0 0.0	1.5
12	PAB-ENCL	PR069604.03, Rev. 0	NTS - Silicon Valley	2017	Yes	2.0 2.0	1.0 0.0	1.5
13	PAB2-ENCL	PR069604.03, Rev. 0	NTS - Silicon Valley	2017	Yes	2.0 2.0	1.0 0.0	1.5
14	CAB-1	TR-PR163923 Rev.2 (EUT1)	NTS - Boxborough	2022	Yes	2.0 2.0	1.0 0.0	1.5
15	CAB-2	TR-PR163923 Rev.2 (EUT3)	NTS - Boxborough	2022	Yes	2.0 2.0	1.0 0.0	1.5
16	CAB-3 w/X200, XVCC	TR-PR163923 Rev.2 (EUT3)	NTS - Boxborough	2022	Yes	2.0 2.0	1.0 0.0	1.5

**Notes:**  
1. Qual Tech NP by Curtiss-Wright was not ISO 17025 accredited at the time of testing but has been reviewed by TRU Compliance and found to meet the requirements for ICC-ES AC156 testing. Review form is on file with TRU Compliance.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>UUT 1</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> PAD-3 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (EN-PAD, PAD-3); **Bracket:** Siemens (PAD3-BATT-BRKT); **Battery:** Siemens (BT-33);  
**Power Supply:** Siemens (PAD-3-MB)

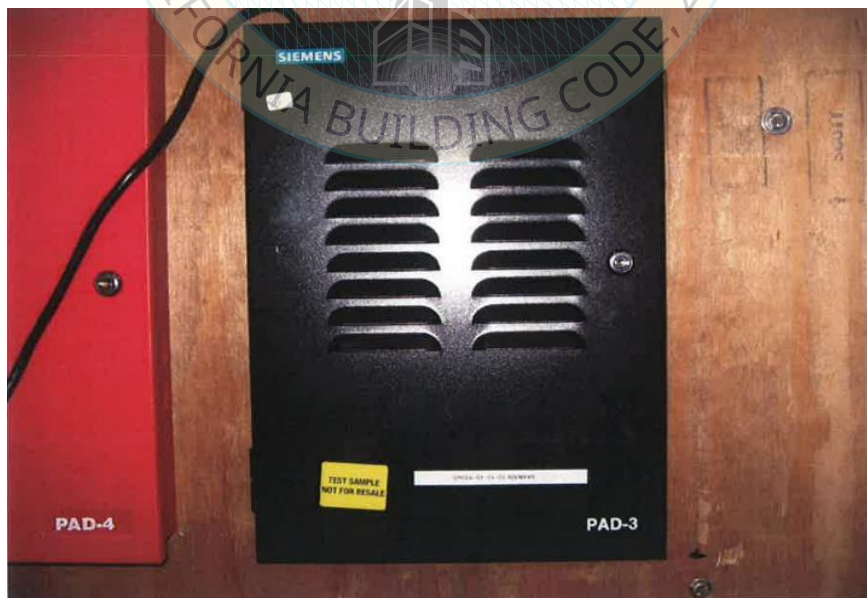
**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
24	2.4	12.1	17.0	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		2.0	0.0					

**Test Mounting Details:** (Test Report: Q9026.0 Rev.1)



UUT1 was wall mounted - rigid to a wall fixture with a 3/4" thick plywood surface using four (4) commercial Grade 2 or less #14 x 1" Type A hex head bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>UUT 2</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> PAD-4 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (PAD-4); **Bracket:** Siemens (PAD4-BATT-BRKT); **Battery:** Siemens (BT-33);  
**Power Supply:** Siemens (PAD-4-MB)

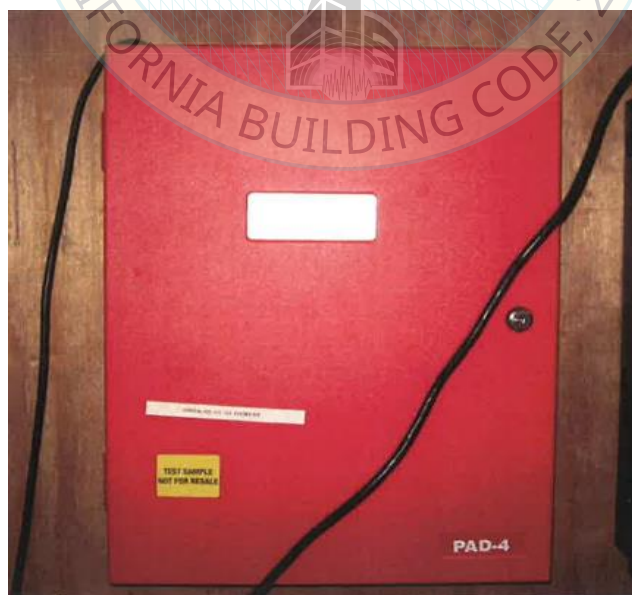
**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
27	2.4	12.1	17.0	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		2.0	0.0					

**Test Mounting Details:** (Test Report: Q9026.0 Rev.1)



UUT2 was wall mounted - rigid to a wall fixture with a 3/4" thick plywood surface using four (4) commercial Grade 2 or less #14 x 1" Type A hex head bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>UUT 4</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> REMBOX4 (config #1) <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (REMBOX4); **Circuit Board:** Siemens (RNI); **Control Panel:** Siemens (PMI);  
**PA Microphone:** Siemens (LVM); **Telephone:** Siemens (FMT)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
33	5.0	24.0	19.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53	
		2.0	0.0						

**Test Mounting Details:** (Test Report: Q9026.0 Rev.1)



UUT4 was wall mounted - rigid to a wall fixture with a 3/4" thick plywood surface using four (4) commercial Grade 2 or less #14 x 1" Type A hex head bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>UUT 5</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> REMBOX4 (config #2) <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (REMBOX4); **Plate:** Siemens (REMBOX4-MP); **Circuit Board:** Siemens (OCM-16, RNI);  
**Mounting Plate:** Siemens (ID-MP); **Switch:** Siemens (SCM-8, SIM-16)

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
33	5.0	24.0	19.0	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		2.0	0.0					

**Test Mounting Details:** (Test Report: Q9026.0 Rev.1)



UUT5 was wall mounted - rigid to a wall fixture with a 3/4" thick plywood surface using four (4) commercial Grade 2 or less #14 x 1" Type A hex head bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET



1700911-CR-001-R2

<b>Manufacturer:</b> Siemens Industry Inc.	<b>UUT 6</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> CAB-3 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (CAB3, CAB3-BB); **Door:** Siemens (CAB3-BD); **Plate:** Siemens (ID-SP, OD-BP, OD-LP);  
**Trim Kit:** Siemens (CAB3-TK); **Battery Charger:** Siemens (PSC-12, PSX-12); **Cable:** Siemens (CCL);  
**Circuit Board:** Siemens (AIC, CC-5, CSB, DAC-NET, FMT-A-ADPT, LPB, NIC-C, PTB, TZC-8B, ZAC-40, ZAM-180);  
**Control Panel:** Siemens (FCM-6, LCM-8, PMI); **Mounting Plate:** Siemens (ID-MP); **PA Microphone:** Siemens (LVM);  
**Switch:** Siemens (SCM-8); **Telephone:** Siemens (FMT)

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
173	8.3	26.1	62.5	N/A	N/A	N/A

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		2.0	0.0					

**Test Mounting Details:** (Test Report: Q9026.0 Rev.1)



UUT5 was wall mounted - rigid to a wall fixture with a 3/4" thick plywood surface using six (6) commercial Grade 2 or less #14 x 1" Type A hex head bolts and washers.  
 Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
 Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>UUT 7</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> CAB-BATT (2-100AH) <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Painted, cold rolled carbon steel battery cabinet (2-100AH)

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (CAB-BATT); **Bracket:** Siemens (CAB-100-BRKT); **Battery:** Siemens (BTX-3)

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
136	7.0	26.0	12.0	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		2.0	0.0					

**Test Mounting Details:** (Test Report: Q9026.0 Rev.1)



UUT7 was wall mounted - rigid to a wall fixture with a 3/4" thick plywood surface using five (5) commercial Grade 2 or less #14 x 1" Type A hex head bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET



1700911-CR-001-R2

<b>Manufacturer:</b> Siemens Industry Inc.	<h2>UUT 9</h2>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> CAB-2 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (CAB2, CAB2-BB); **Bracket:** Siemens (CAB-55-BRKT, COM-BRK); **Door:** Siemens (CAB2-BD);  
**Plate:** Siemens (OD-BP, OD-LP, CAB-MP); **Battery:** Siemens (BTX-2); **Battery Charger:** Siemens (PSC-12);  
**Circuit Board:** Siemens (CC-5, DAC-NET, FN2006, FN2007, LPB, NRC, PTB, XDMC, ZAC-40);  
**Control Panel:** Siemens (PMI-2); **PA Microphone:** Siemens (LVM)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
90	8.3	26.1	44.8	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.0 2.0	1.0 0.0	1.5	3.20	2.40	1.33	0.53	

**Test Mounting Details:** (Test Report: PR032091, Rev. 4)



UUT9 was wall mounted - rigid to a wall fixture using four (4) 5/16" Grade 8 bolts and washers.  
 Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
 Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b>	Siemens Industry Inc.	<b>UUT 10</b>
<b>Model Line:</b>	Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b>	CAB-3	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (CAB3, CAB3-BB); **Bracket:** Siemens (CAB-100-BRKT, COM-BRKT); **Door:** Siemens (CAB3-BD);  
**Plate:** Siemens (OD-BP, OD-LP, CAB-MP); **Battery:** Siemens (BTX-3); **Battery Charger:** Siemens (PSC-12);  
**Circuit Board:** Siemens (CC-5, FN2006, FN2007, MLC, NIC-C, NRC, PTB, VESDA-NET-HLI, VPM, ZIC-4A);  
**Control Panel:** Siemens (PMI-2); **Mounting Plate:** Siemens (VPM-MP); **Trim Kit:** Siemens (CAB3-TK);

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
173	8.3	26.1	62.5	N/A	N/A	N/A

<i>UUT Highest Passed Seismic Run Information</i>									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53	
		2.0	0.0						

**Test Mounting Details:** (Test Report: PR032091, Rev. 4)



UUT10 was wall mounted - rigid to a wall fixture using six (6) 5/16" Grade 8 bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b>	Siemens Industry Inc.	<b>UUT 11</b>
<b>Model Line:</b>	Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b>	CAB-1	
<b>Serial Number:</b>		N/A

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Circuit Board:** Siemens (XDLC); **Control Panel:** Siemens (FCM2041-U2, FCM2041-U3);

### UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
64	8.3	26.1	27.0	N/A	N/A	N/A

### UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		2.0	0.0					

**Test Mounting Details:** (Test Report: PR069604.03, Rev. 0)



UUT11 was wall mounted - rigid to a wall fixture using four (4) 3/8" x 1.25" length lag screws.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>UUT 12</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> PAB-ENCL <b>Serial Number:</b> N/A	

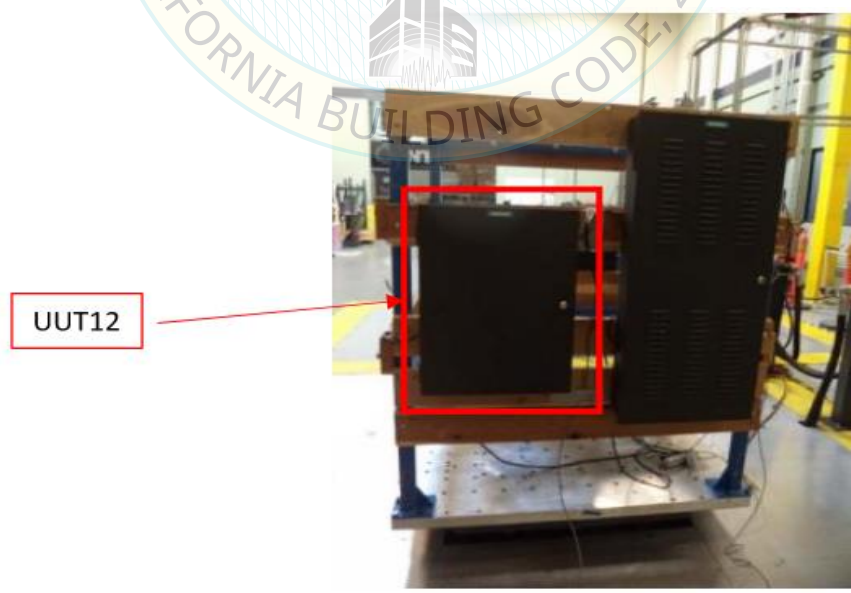
**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (PAB-ENCL); **Plate:** Siemens (PAD-5 ADAPTER PLATE);  
**Power Supply:** Siemens (PAD-5-MB, PAD-5-CLSA, PAD-5-CDC)

UUT Properties						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
28	3.8	16.0	24.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)	
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53	
		2.0	0.0						

**Test Mounting Details:** (Test Report: PR069604.03, Rev. 0)



UUT12 was wall mounted - rigid to a wall fixture using four (4) 1/4" x 1" length lag screws.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET



1700911-CR-001-R2

<b>Manufacturer:</b> Siemens Industry Inc.	<b>UUT 13</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> PAB2-ENCL <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (PAB2-ENCL); **Plate:** Siemens (PAD-5 ADAPTER PLATE);  
**Power Supply:** Siemens (PAD-5-MB, PAD-5-CLSA, PAD-5-CDC)

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
49	5.5	16.0	40.0	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		2.0	0.0					

**Test Mounting Details:** (Test Report: PR069604.03, Rev. 0)



UUT13

UUT13 was wall mounted - rigid to a wall fixture using six (6) 1/4" x 1" length lag screws.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.



# UNIT UNDER TEST (UUT) SUMMARY SHEET



1700911-CR-001-R2

<b>Manufacturer:</b>	Siemens Industry Inc.	<b>UUT 14</b>
<b>Model Line:</b>	Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b>	CAB-1 <span style="float: right;"><b>Serial Number:</b> N/A</span>	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (CAB1); **Bracket:** Siemens (COM-BRK); **Circuit Board:** Siemens (NIC-C, ZIC-4A, PFSA);  
**Switch:** Siemens (FN2013-U1); **Battery Charger:** Siemens (PSC-12M)

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
62	8.3	26.1	27.0	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		2.0	0.0					

**Test Mounting Details:** (Test Report: TR-PR163923 Rev.2 (EUT1))



UUT14 was wall mounted - rigid to a wall fixture using four (4) 5/16" Grade 5 bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>UUT 15</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> CAB-2 <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (CAB2); **Circuit Board:** Siemens (PSFA, XDLC, XINC, LDC, FN2016-U1, FN2017-U1, ZIC-4A);  
**Battery Charger:** Siemens (PSC-12M)

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
72	6.9	26.1	44.8	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		2.0	0.0					

**Test Mounting Details:** (Test Report: TR-PR163923 Rev.2 (EUT2))



UUT15 was wall mounted - rigid to a wall fixture using four (4) 5/16" Grade 5 bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.

# UNIT UNDER TEST (UUT) SUMMARY SHEET

1700911-CR-001-R2



<b>Manufacturer:</b> Siemens Industry Inc.	<b>UUT 16</b>
<b>Model Line:</b> Firefinder XLS, Desigo Life Safety Modular, & Cerberus PRO Modular	
<b>Model Number:</b> CAB-3 w/X200, XVCC <b>Serial Number:</b> N/A	

**Product Construction Summary:**  
Painted, cold rolled carbon steel power supply enclosure, NEMA type 1 enclosure.

**Options/Subcomponent Summary:**  
**Enclosure:** Siemens (CAB3); **Circuit Board:** Siemens (CC-5, PSFA, X200, XINC, LDC, FN2016-U1, FN2017-U1, ZAC-40, ZIC-4A);  
**Battery Charger:** Siemens (PSC-12M); **Control Panel:** Siemens (FCM2041-U2 or FCM2041-U3)

**UUT Properties**

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
101	6.9	26.1	62.5	N/A	N/A	N/A

**UUT Highest Passed Seismic Run Information**

Building Code	Test Criteria	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2022	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53
		2.0	0.0					

**Test Mounting Details:** (Test Report: TR-PR163923 Rev.2 (EUT3))



UUT16 was wall mounted - rigid to a wall fixture using six (6) 5/16" Grade 5 bolts and washers.  
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.  
Contents were included in testing per operating conditions.