



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0582 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: ESL Power Systems, Inc.

Manufacturer's Technical Representative: Tom Zinchuk

Mailing Address: 2800 Palisades Drive, Corona, CA 92880

Telephone: 951.739.7000

Email: tzinchuk@eslpwr.com

Product Information

Product Name: StormSwitch, TripleSwitch

Product Type: Manual Transfer Switch

Product Model Number: Various (See Attachment)

(List all unique product identification numbers and/or part numbers)

General Description: Manual Transfer Switch Electrical Cabinets. Seismic enhancements made to the test units

and modifications required to address the anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: Rigid Floor Mounted, Rigid Flush Wall Mounted (See Attachment)

Applicant Information

Applicant Company Name: SEESTudio, Inc.

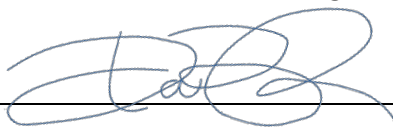
Contact Person: Dan Junker, SE

Mailing Address: 1281 9th Ave. San Diego, CA 92101, Suite 1101

Telephone: 619.606.5058

Email: djunker@seestudioinc.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

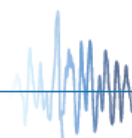
Signature of Applicant: 

Date: 11-12-18

Title: Principal Engineer

Company Name: SEESTudio, Inc.

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





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

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

Company Name: SEESTudio, Inc.

Name: Dan Junker, SE

California License Number: S6178

Mailing Address: 1281 9th Ave. San Diego, CA 92101, Suite 1101

Telephone: 619.606.5058

Email: djunker@seestudioinc.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-0582-10

BY: Ali Sumer

DATE: 03/04/2019

Testing Laboratory

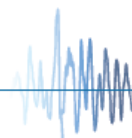
Company Name: Environmental Testing Laboratory, Inc.

Contact Name: Brady Richard, President

Mailing Address: 11034 Indian Trail, Dallas, TX 75229

Telephone: 972-247-9657

Email: info@etldallas.com





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Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = 1.5

S_{DS} (Design spectral response acceleration at short period, g) = 2.0

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = See Attachment

Overall dimensions and weight (or range thereof) = See Attachment

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) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = OSP-0582-10

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = BY: Ali Sumer

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = DATE: 03/04/2019

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No

List of Attachments Supporting Special Seismic Certification

☒ Test Report(s) ☐ Drawings ☐ Calculations ☒ Manufacturer's Catalog

☒ Other(s) (Please Specify): SEES Certified Component Summary

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature: [Signature] Date: March 1, 2019

Print Name: Ali Sumer Title: DSE

Special Seismic Certification Valid Up to : S_{DS} (g) = 2.0 z/h = 1.0

Condition of Approval (if applicable): _____

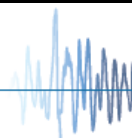




TABLE 1

TABLE DESCRIPTION: Manual Transfer Switches

$S_{DS} = 2.0g$ at $z/h = 1.0$

Rigid floor or wall mounted per below table. Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

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SPECIAL SEISMIC CERTIFICATION

CERTIFIED SUB-COMPONENTS

TABLE 2

MANUFACTURER: ESL Power Systems, Inc.

MODEL LINE: StormSwitch, TripleSwitch

TABLE DESCRIPTION: Circuit Breakers

CONSTRUCTION SUMMARY:

Construction is specific to individual models listed below. Certified sub-component construction shall be identical to construction of UUT's.

OPTIONS SUMMARY:

3 or 4 Pole. 80% or 100% Rated. LI, LSI, LISG Trip Configurations (3-6.3A)

CERTIFICATION PARAMETERS:
Building Code: CBC 2016

Component Importance Factor: $I_p = 1.5$
 $S_{DS} = 2.0g$ at $z/h = 1.0$
MOUNTING SUMMARY:

Mounted in component. Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Sub-components only certified for use in mounting condition of associated UUT.

NOTES:

Sub-Component	Manufacturer	Model	Amperage		Description	UUT
		3-Pole/4-Pole				
Circuit Breaker	Schneider Electric	LGL36250/LGL46250	250A	Wall Mount	3-Pole 80% Rated Tested	1
		LGL36400/LGL46400	400A			
		LGL36600/LGL46600	600A		4-Pole 100% Rated Tested	1
		PGL36025/PGL46025	250A		3-Pole 80% Rated Tested	2
		PGL36040/PGL46040	400A			
		PGL36060/PGL46060	600A			
		PGL36080/PGL46080	800A			
		PJL36025/PJL46025	250A			
		PJL36040/PJL46040	400A			
		PJL36060/PJL46060	600A			
		PJL36080/PJL46080	800A		4-Pole 100% Rated Tested	2
		PGL36025/PGL36025	250A	Floor Mount	3-Pole 80% Rated Tested	3
		PGL36040/PGL46040	400A			
		PGL36060/PGL46060	600A			
		PGL36080/PGL46080	800A			
		PGL36100/PGL46100	1000A			
		PGL36120/PGL46120	1200A			
		PJL36025/PJL46025	250A			
		PJL36040/PJL46040	400A			
		PJL36060/PJL46060	600A			
		PJL36080/PJL46080	800A			
		PJL36100/PJL46100	1000A		4-Pole 100% Rated Tested	3
		PJL36120/PJL46120	1200A		3-Pole 80% Rated Tested	4
		RGL36060/RGL46060	600A			
		RGL36080/RGL46080	800A			
		RGL36100/RGL46100	1000A			
		RGL36120/RGL46120	1200A			
		RGL36160/RGL46160	1600A			
		RGL36200/RGL46200	2000A			
		RGL36250/RGL46250	2500A			
		RGL36300/RGL46300	3000A			



TABLE 2

TABLE DESCRIPTION: Circuit Breakers

CERTIFICATION PARAMETERS:

Component Importance Factor: $I_p = 1.5$

S_{DS} = 2.0g at z/h = 1.0

MOUNTING SUMMARY:

NOTES:

Sub-components only certified for use in mounting condition of associated UUT.

Model		Amperage	
3-Pole/4-Pole			
RJL36060/RJL46060	600A	Floor Mount	
RJL36080/RJL46080	800A		
RJL36100/RJL46100	1000A		
RJL36120/RJL46120	1200A		
RJL36160/RJL46160	1600A		
RJL36200/RJL46200	2000A		
RJL36250/RJL46250	2500A		
RJL36300/RJL46300	3000A		

SPECIAL SEISMIC CERTIFICATION

CERTIFIED SUB-COMPONENTS

 TABLE **3**
MANUFACTURER: ESL Power Systems, Inc.

MODEL LINE: StormSwitch, TripleSwitch

TABLE DESCRIPTION: Accessories

CONSTRUCTION SUMMARY:

Construction is specific to individual models listed below. Certified sub-component construction shall be identical to construction of UUT's.

OPTIONS SUMMARY:
CERTIFICATION PARAMETERS:
Building Code: CBC 2016

Component Importance Factor: $I_p = 1.5$
 $S_{DS} = 2.0g$ at $z/h = 1.0$
MOUNTING SUMMARY:

Mounted in component. Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Sub-components only certified for use in mounting condition of associated UUT.

NOTES:

Sub-Component	Manufacturer	Model	Description	UUT
Phase Monitor	Diversified	SLA-120-ALE	Wall & Floor Mount	1,3
		SLA-120-ALER		
		SLA-230-ALE		
		SLA-230-ALER		
		SLA-380-ALE		
		SLA-380-ALER		
		SLA-440-ALE		
		SLA-440-ALER		
		SLA-575-ALE		2,3
		SLU-100-ASA		2,4
Fan	Multicomp	MC32926	Wall & Floor Mount	2,3
		MC19695		2,3
		MC19694		
		MC25028		2,4
	ADDA	AK1781HB	Floor Mount	4
Interlock	ESL	P Frame	Wall & Floor Mount	1,3
		R Frame		2,4
Transformers	MICRON	B075MBT713RK	Wall & Floor Mount	1,4
		B075WZ13RK		2
		B1K5BTZ13JKF	Floor Mount	4
	ACME	TB83212	Floor Mount	3
Shunt Trip	Schneider Electric	S29384	Wall Mount	1
		S29385		
		S29386		
		S29387		
		S29388		
		S29389		
		S29382		
		S29390		
		S29391		

SPECIAL SEISMIC CERTIFICATION

CERTIFIED SUB-COMPONENTS

 TABLE **3**
MANUFACTURER: ESL Power Systems, Inc.

MODEL LINE: StormSwitch, TripleSwitch

TABLE DESCRIPTION: Accessories

CONSTRUCTION SUMMARY:

Construction is specific to individual models listed below. Certified sub-component construction shall be identical to construction of UUT's.

OPTIONS SUMMARY:
CERTIFICATION PARAMETERS:
Building Code: CBC 2016

Component Importance Factor: $I_p = 1.5$
 $S_{DS} = 2.0g$ at $z/h = 1.0$
MOUNTING SUMMARY:

Mounted in component. Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Sub-components only certified for use in mounting condition of associated UUT.

NOTES:

Sub-Component	Manufacturer	Model	Description	UUT
Shunt Trip	Schneider Electric	S29392	48 VDC	
		S29383	60 VDC	
		S29393	125 VDC	
		S29394	250 VDC	
		S33659	24 VAC	
		S33660	48 VAC	
		S33661	110-130 VAC	
		S33662	220-240 VAC	
		S33663	208-277 VAC	
		S33664	380-480 VAC	4
		S33658	12 VDC	3
		S33659	24 VDC	
		S33659	30 VDC	
		S33660	48 VDC	
		S33660	60 VDC	
		S33661	125 VDC	
		S33662	250 VDC	2
Under-voltage Trip	Schneider Electric	S29404	24 VAC	1
		S29405	48 VAC	
		S29406	110-130 VAC	
		S29407	208-277 VAC	
		S29408	380-480 VAC	
		S29409	525-600 VAC	
		S29402	12 VDC	
		S29410	24 VDC	
		S29411	30 VDC	
		S29412	48 VDC	
		S29403	60 VDC	
		S29413	125 VDC	
		S29414	250 VDC	
		S33668	24 VAC	

SPECIAL SEISMIC CERTIFICATION

CERTIFIED SUB-COMPONENTS
TABLE 3
MANUFACTURER: ESL Power Systems, Inc.

MODEL LINE: StormSwitch, TripleSwitch

TABLE DESCRIPTION: Accessories

CONSTRUCTION SUMMARY:

Construction is specific to individual models listed below. Certified sub-component construction shall be identical to construction of UUT's.

OPTIONS SUMMARY:
CERTIFICATION PARAMETERS:
Building Code: CBC 2016

Component Importance Factor: $I_p = 1.5$
 $S_{DS} = 2.0g$ at $z/h = 1.0$
MOUNTING SUMMARY:

Mounted in component. Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Sub-components only certified for use in mounting condition of associated UUT.

NOTES:

Sub-Component	Manufacturer	Model	Description	UUT
Under-voltage Trip	Schneider Electric	S33669	48 VAC	
		S33670	110-130 VAC	
		S33671	220-240 VAC	
		S33673	380-480 VAC	4
		S33668	24 VDC	3
		S33668	30 VDC	
		S33669	48 VDC	
		S33669	60 VDC	
		S33670	125 VDC	
		S33671	250 VDC	2
Auxiliary switch / alarm switch	Schneider Electric	S29450	Wall & Floor Mount	1,3
		S29452		2,4
Fuse Holder	Ferraz/Mersen	30321R	Wall & Floor Mount	1,3
		USM1		2,3
		USCC1		2,4
Fuse	Ferraz/Mersen	ATM 1	Wall & Floor Mount	2,3
		ATM 1-1/2		
		ATM 2		
		ATM 3		
		ATM 5		
		ATM 10		1,4
		ATMR 1		2,4
		ATMR 1-1/2		
		ATMR 2		
		ATMR 3		
		ATMR 5		
		ATMR 10		2,4
		ATQ 1		2,4
		ATQ 1-1/2		
		ATQ 2		
		ATQ 3		

SPECIAL SEISMIC CERTIFICATION

CERTIFIED SUB-COMPONENTS

 TABLE **3**
MANUFACTURER: ESL Power Systems, Inc.

MODEL LINE: StormSwitch, TripleSwitch

TABLE DESCRIPTION: Accessories

CONSTRUCTION SUMMARY:

Construction is specific to individual models listed below. Certified sub-component construction shall be identical to construction of UUT's.

OPTIONS SUMMARY:
CERTIFICATION PARAMETERS:
Building Code: CBC 2016

Component Importance Factor: $I_p = 1.5$
 $S_{DS} = 2.0g$ at $z/h = 1.0$
MOUNTING SUMMARY:

Mounted in component. Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Sub-components only certified for use in mounting condition of associated UUT.

NOTES:

Sub-Component	Manufacturer	Model	Description	UUT
Fuse	Ferraz/Mersen	ATQ 5	Wall & Floor Mount	
		ATQ 10		2,4
		ATQR 1		2,3
		ATQR 1-1/2		
		ATQR 2		
		ATQR 3		
		ATQR 5		
		ATQR 10		2,4
Terminal Block	Phoenix	UT 4-MTD	Wall & Floor Mount	2,4
		UK 5 N		2,4
End Bracket	Phoenix	CLIPFIX35	Wall & Floor Mount	2,4
		E/NS 35 N		2,4
End Cover	Phoenix	D-UT 2.5/4 TWIN	Wall & Floor Mount	2,4
		D-UK 4/10		2,4
Filter	McMaster Carr	21205K28	Wall & Floor Mount	2,3
Din Rail	Phoenix	12 01 73 0	Wall & Floor Mount	2,4
		08 01 73 3		2,4
	IBOC	Omega 3		2,4
Switch	Honeywell	1DM1	Floor Mount	3
Stand-off Insulator	Glastic / Mar-Bal	2165-1A	Floor Mount	3
		2015-2A		
		2015-3A		
		R4200-A5		
		1461-1A		
		1872-1C		4
Power Supply	Phoenix	QUINT-PS/1AC/24DC/3.5	Floor Mount	4
Ground Fault Relay	Eaton	D64RPB100	Floor Mount	3
Current Transformer	WICC	5SP-1200-00-L48	Floor Mount	3
Horn	ESSS	870P-45	Floor Mount	4
Receptacle Back Box	Hubbell	FT302W	Floor Mount	3
Receptacle	Hubbell	HBL2620SW	Floor Mount	3



TABLE 3

TABLE DESCRIPTION: Accessories

CERTIFICATION PARAMETERS:

Component Importance Factor: $I_p = 1.5$

S_{DS} = 2.0g at z/h = 1.0

NOTES:

Sub-components only certified for use in mounting condition of associated UUT.

S E E T O M O R R O W B U I L T T O D A Y

Document No.: 2018.006.CCS.001.0

SPECIAL SEISMIC CERTIFICATION

UNIT UNDER TEST (UUT) DESCRIPTION

UUT **1**

MANUFACTURER: ESL Power Systems, Inc.
MODEL LINE: StormSwitch, TripleSwitch
MODEL NUMBER: 3020, 200A StormSwitch

CONSTRUCTION SUMMARY:

Specific to part number.

OPTIONS SUMMARY:

Circuit Breaker: Schneider Electric LGL36250 & LGL46600; **Phase Monitor:** Diversified SLA-120-ALE; **Interlock:** ESL P Frame; **Transformer:** Micron B075MBT713RK; **Shunt Trip:** Schneider Electric S29384; **Under-voltage Trip:** Schneider Electric S29404; **Auxiliary Switch/Alarm Switch:** Schneider Electric S29450; **Fuse holder:** Ferraz/Mersen 30321R; **Fuse:** Ferraz/Mersen ATM 10; **Single Pole Receptacle:** Leviton 16R21 & 16R22, Hubbell HBLMR & HBLFR;

TEST PARAMETERS:

Building Code: CBC 2016
Component Importance Factor: $I_p = 1.5$
Test Criteria: AC-156

MOUNTING SUMMARY:

Wall mounted. Fastened to wall fixture using four (4) 1/2" grade 8 bolts.

NOTES:

Contents were included in testing per operating conditions.

UUT IMAGE



UUT PROPERTIES

Dimensions (in)			Weight (lb)	Min. First Natural Frequency (Hz)		
Height	Width	Depth		F-B	S-S	Vert
30.0	24.0	13.4	307.0	N/A	N/A	N/A

UNIT MAINTAINED STRUCTURAL INTEGRITY AND REMAINED OPERATIONAL

PER MANUFACTURER REQUIREMENT WHEN SUBJECTED TO THE FOLLOWING TEST PARAMETERS

S_{Ds} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
2.0	1.0	3.20	2.40	1.33	0.53

SPECIAL SEISMIC CERTIFICATION

UNIT UNDER TEST (UUT) DESCRIPTION

UUT **2**

MANUFACTURER: ESL Power Systems, Inc.
MODEL LINE: StormSwitch, TripleSwitch
MODEL NUMBER: 3181, 800A TripleSwitch

CONSTRUCTION SUMMARY:

Specific to part number.

OPTIONS SUMMARY:

Circuit Breaker: Schneider Electric PGL36025 & PJL46080; **Phase Monitor:** Diversified SLA-575-ALE & SLU-100-ASA & SLU-100-ASD; **Fan:** Multicomp MC32926 & MC19695 & MC25028; **Interlock:** ESL R Frame;
Transformer: Micron B075WZ13RK; **Shunt Trip:** Schneider Electric S33662; **Under-voltage Trip:** Schneider Electric S33671; **Auxiliary Switch/Alarm Switch:** Schneider Electric S29452; **Fuse holder:** Ferraz/Mersen USM1 & USCC1; **Fuse:** Ferraz/Mersen ATMR1 & ATMR10 & ATQ1 & ATQ10 & ATQR1 & ATQR10; **Terminal Block:** Phoenix UT 4-MTD & UK 5 N; **End Bracket:** Phoenix CLIPFIX35 & E/NS 35 N; **End Cover:** D-UT 2.5/4 TWIN & D-UK 4/10; **Filter:** McMaster Carr 21205K28; **Din Rail:** Phoenix 12 01 73 0 & 08 01 73 3, IBOC Omega 3; **Single Pole Receptacle:** Leviton 16R23 & 16R24, Hubbell HBLMRS & HBLFRS;

TEST PARAMETERS:

Building Code: CBC 2016
Component Importance Factor: $I_p = 1.5$
Test Criteria: AC-156

MOUNTING SUMMARY:

Wall mounted. Fastened to wall fixture using four (4) 1/2" grade 8 bolts.

NOTES:

Contents were included in testing per operating conditions.

UUT IMAGE



UUT PROPERTIES

Dimensions (in)			Weight (lb)	Min. First Natural Frequency (Hz)		
Height	Width	Depth		F-B	S-S	Vert
55.0	46.0	16.5	535.5	N/A	N/A	N/A

UNIT MAINTAINED STRUCTURAL INTEGRITY AND REMAINED OPERATIONAL

PER MANUFACTURER REQUIREMENT WHEN SUBJECTED TO THE FOLLOWING TEST PARAMETERS

S_{Ds} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
2.0	1.0	3.20	2.40	1.33	0.53

SPECIAL SEISMIC CERTIFICATION

UNIT UNDER TEST (UUT) DESCRIPTION

UUT **3**

MANUFACTURER: ESL Power Systems, Inc.
MODEL LINE: StormSwitch, TripleSwitch
MODEL NUMBER: 3012, 1200A StormSwitch

CONSTRUCTION SUMMARY:

Specific to part number.

OPTIONS SUMMARY:

Circuit Breaker: Schneider Electric PGL36025& PJL46120; **Phase Monitor:** Diversified SLA-120-ALE & SLA-575-ALE; **Fan:** Multicomp MC32926 & MC19695 & MC25028; **Interlock:** ESL P Frame; **Transformer:** ACME TB83212; **Shunt Trip:** Schneider Electric S33658; **Under-voltage Trip:** Schneider Electric S33668; **Auxiliary Switch/Alarm Switch:** Schneider Electric S29450; **Fuse holder:** Ferraz/Mersen 30321R & USM1; **Fuse:** Ferraz/Mersen ATM 1 & ATQR 1; **Filter:** McMaster Carr 21205K28; **Switch:** Honeywell 1DM1; **Stand-off Insulator:** Glastic / Mar-Bal 2165-1A; **Ground Fault Relay:** Eaton D64RPB100; **Current Transformer:** WICC 5SP-1200-00-L48; **Receptacle Back Box:** Hubbell FT302W; **Receptacle:** Hubbell HBL2620SW; **Neutral Sensor:** Schneider S33576; **Single Pole Receptacle:** Leviton 16R21 & 16R22, Hubbell HBLMR & HBLFR;

TEST PARAMETERS:

Building Code: CBC 2016
Component Importance Factor: $I_p = 1.5$
Test Criteria: AC-156

MOUNTING SUMMARY:

Floor mounted. Fastened to shake table platen using eight (8) 5/8" grade 8 bolts.

NOTES:

Contents were included in testing per operating conditions.

UUT IMAGE



UUT PROPERTIES

Dimensions (in)			Weight (lb)	Min. First Natural Frequency (Hz)		
Height	Width	Depth		F-B	S-S	Vert
88.0	62.0	25.0	1,198	10.05	8.39	29.60

UNIT MAINTAINED STRUCTURAL INTEGRITY AND REMAINED OPERATIONAL

PER MANUFACTURER REQUIREMENT WHEN SUBJECTED TO THE FOLLOWING TEST PARAMETERS

S_{Ds} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
2.0	1.0	3.20	2.40	1.33	0.53

SPECIAL SEISMIC CERTIFICATION

UNIT UNDER TEST (UUT) DESCRIPTION

UUT **4**

MANUFACTURER: ESL Power Systems, Inc.
MODEL LINE: StormSwitch, TripleSwitch
MODEL NUMBER: 3132, 3000A TripleSwitch

CONSTRUCTION SUMMARY:

Specific to part number.

OPTIONS SUMMARY:

Circuit Breaker: Schneider Electric RGL36060 & RJL46300; **Phase Monitor:** Diversified SLU-100-ASA & SLU-100-ASD; **Fan:** Multicomp MC25028, ADDA AK1781HB; **Interlock:** ESL R Frame; **Transformer:** Micron B075MBT713RK & B1K5BTZ13JKF; **Shunt Trip:** Schneider Electric S33664; **Under-voltage Trip:** Schneider Electric S33673; **Auxiliary Switch/Alarm Switch:** Schneider Electric S29452; **Fuse holder:** Ferraz/Mersen USCC1; **Fuse:** Ferraz/Mersen ATM 10 & ATMR1 & ATMR10 & ATQ1 & ATQ10 & ATQR10; **Terminal Block:** Phoenix UT 4-MTD & UK 5 N; **End Bracket:** Phoenix CLIPFIX35 & E/NS 35 N; **End Cover:** D-UT 2.5/4 TWIN & D-UK 4/10; **Filter:** McMaster Carr 21205K28; **Din Rail:** Phoenix 12 01 73 0 & 08 01 73 3, IBOC Omega 3; **Stand-off Insulator:** Glastic / Mar-Bal 1872-1C; **Power Supply:** Phoenix QUINT-PS/1AC/24DC/3.5; **Horn:** ESSS 870P-45; **Neutral Sensor:** Schneider S48896; **Single Pole Receptacle:** Leviton 16R23 & 16R24, Hubbell HBLMRS & HBLFRS;

TEST PARAMETERS:

Building Code: CBC 2016
Component Importance Factor: $I_p = 1.5$
Test Criteria: AC-156

MOUNTING SUMMARY:

Floor mounted. Fastened to shake table platen using four (4) 5/8" grade 8 bolts and (4) 3/8" grade 8 bolts.

NOTES:

Contents were included in testing per operating conditions.

UUT IMAGE



UUT 4

UUT PROPERTIES

Dimensions (in)			Weight (lb)	Min. First Natural Frequency (Hz)		
Height	Width	Depth		F-B	S-S	Vert
89.2	132.0	26.5	3,137	5.29	8.41	23.45

UNIT MAINTAINED STRUCTURAL INTEGRITY AND REMAINED OPERATIONAL

PER MANUFACTURER REQUIREMENT WHEN SUBJECTED TO THE FOLLOWING TEST PARAMETERS

S_{Ds} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
2.0	1.0	3.20	2.40	1.33	0.53