



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

**APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP – 0274-10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Schneider Electric IT Division

Manufacturer's Technical Representative: Jose Muniz

Mailing Address: Via de la Innovacion #408, Parque PIIT Apodaca, NL. CP 66628 Mexico

Telephone: +52 81 4739 2000 x82869 Email: Jose.Muniz@schneider-electric.com

Product Information

Product Name: MGE Galaxy and MGE EPS Battery Cabinets

Product Type: Battery Cabinet

Product Model Number: See Certified Product Table attached

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

General Description: External Battery Cabinets. Seismic enhancements made to the UUTs & modifications required to address anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: Rigidly floor mounted

Applicant Information

Applicant Company Name: Schneider Electric IT Division

Contact Person: Jose Muniz

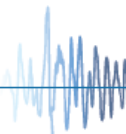
Mailing Address: Via de la Innovacion #408, Parque PIIT Apodaca, NL. CP 66628 Mexico

Telephone: +52 81 4739 2000 x82869 Email: Jose.Muniz@schneider-electric.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: 11/11/2016

Title: Regulatory Compliance Engineer Company Name: Schneider Electric IT Division





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

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

Company Name: Forell/Elsesser Engineers, Inc.

Name: Marco Scanu, SE California License Number: S4454

Mailing Address: 160 Pine St., 6th Flr., San Francisco, CA 94111

Telephone: (415) 837-0700 Email: m.scanu@forell.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): _____

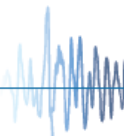
Testing Laboratory

Company Name: Wyle Laboratories

Contact Name: Rod Thornberry

Mailing Address: 7800 Hwy 20, Huntsville AL 35806

Telephone: (256) 837-4411 Email: _____





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: [X] Yes [] No

Design Basis of Equipment or Components (Fp/Wp) = 0.98

Sds (Design spectral response acceleration at short period, g) = 1.30

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

Rp (Equipment or component response modification factor) = 6.0

Omega_0 (System overstrength factor) = 2.0

Ip (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = See attachment, UUT Summary Sheets

Overall dimensions and weight (or range thereof) = See attachment, Certified Products Table

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: [] Yes [X] No

Design Basis of Equipment or Components (V/W) =

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

Sd1 (Design spectral response acceleration at 1 second period, g) =

R (Response modification coefficient) =

Omega_0 (System overstrength factor) =

Cd (Deflection amplification factor) =

Ip (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

[X] Test Report(s) [] Drawings [X] Calculations [X] Manufacturer's Catalog

[X] Other(s) (Please Specify): Certified Products Table, Certified Subcomponents Table, UUT Summary Sheets

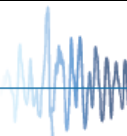
OSHPD Approval (For Office Use Only) - Approval Expires on December 31, 2022

Signature: [Handwritten Signature] Date: 2/8/2017

Print Name: M. R. Karim Title: M. R. Karim

Special Seismic Certification Valid Up to : Sds (g) = 1.30 z/h = 1.0

Condition of Approval (if applicable):



Schneider Electric - MGE Galaxy/MGE EPS Batteries

I. Certified Product Table

Unit	Width	Depth	Height	Max. Weight	Construction Material ^{1,2}	Model Number	Notes	Test Status
Battery Cabinets								
OS35 Cabinet	36.5 in	31.5 in	72.2 in	3350.0 lbs	0.059"-0.179" CFS	OS35	3	Interpolated
OS38 Cabinet	39.0 in	33.0 in	75.0 in	2827.0 lbs	0.059"-0.179" CFS	OS38	3	UUT-1
				4985.0 lbs	0.059"-0.179" CFS	OS38	3	Interpolated/Extrapolated
OS40 Cabinet	39.0 in	33.0 in	82.2 in	4985.0 lbs	0.059"-0.179" CFS	OS40	3	Interpolated/Extrapolated
OS42 Cabinet	39.0 in	39.0 in	82.2 in	4985.0 lbs	0.059"-0.179" CFS	OS42	3	Interpolated/Extrapolated
OS48 Cabinet	48.2 in	33.0 in	75.0 in	4732.0 lbs	0.059"-0.179" CFS	OS48	3	UUT-2
				4985.0 lbs	0.059"-0.179" CFS	OS48	3	Extrapolated
Notes								
1. All enclosures are NEMA 1 rated. 2. CFS= cold-formed carbon steel 3. Floor mounted.								

Schneider Electric - MGE Galaxy/MGE EPS Batteries

II. Certified Subcomponents Table

Internal Components	Manufacturer	Part #	Testing Status
Batteries			
UPS12-300MR	C&D	D300	UUT-1
UPS12-350MR	C&D	D350	Interpolated
UPS12-400MR	C&D	D400	Interpolated
UPS12-490MR	C&D	D490	Interpolated
UPS12-490MRLP	C&D	D490LP	Interpolated
UPS12-540MR	C&D	D540	UUT-2
S12V285	GNB	S285	UUT-1
S12V300	GNB	S300	Interpolated
S12V370	GNB	S370	Interpolated
S12V500	GNB	S500	UUT-2
12HX300	ENERSYS	HX300	UUT-1
12HX330	ENERSYS	HX330	Interpolated
12HX400	ENERSYS	HX400	Interpolated
12HX505	ENERSYS	HX505	Interpolated
12HX540	ENERSYS	HX540	UUT-2
Circuit Breakers			
150A Circuit Breaker	Square D	JGL37150D81ABUO	Interpolated
250A Circuit Breaker	Square D	KHL36250-25DC-1625	UUT-1
		JGL37250D82ABUO	Interpolated
400A Circuit Breaker	Square D	LHL36400-30DC-1625	UUT-2
		LLL37040D30ABUO	Interpolated
500A Circuit Breaker	Square D	LLL37050D32ABUO	Interpolated
600A Circuit Breaker	Square D	LLL37060D33ABUO	Interpolated
Cables			
1/0 Fine Stranded 600V 105C Power Cable Assembly	IntraPack	WIR0009	UUT-1
4/0 Fine Stranded 600V 105C Power Cable Assembly	IntraPack	WIR0012	UUT-2
Control Cable Assembly	IntraPack	S003048	UUT-1, UUT-2
Output Section	IntraPack	S006182	UUT-2

OSP APPLICATION
 Schneider Electric
 MGE Galaxy and EPS Battery Cabinets
 III. UUT Summary Sheets

Date: 12/12/2016

Test Report 58948R11 - UUT1

OS38 Galaxy Battery Cabinet
 0.0159"-0.179" Cold Rolled Carbon Steel
 39"W x 33"D x 75"H,
 2,827 lbs
 Floor mounted with (4) ¾-10 Grade 5 bolts



UUT 1 – OS38

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	Horizontal		Vertical	
					A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC 156	1.32	1.0	1.5	2.11	1.58	0.88	0.35
Natural Frequencies (Hz)			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test. UUT full of contents during testing.					
15.0	12.0	> 33.0						

OS38 Galaxy Battery Cabinet– UUT1 – Internal Components		
Description	Manufacturer	Part Number
UPS12-300MR Battery	C&D	D300
S12V285 Battery	GNB	S285
12HX300 Battery	ENERSYS	HX300
250A Circuit Breaker	Square D	KHL36250-25DC-1625
1/0 Fine Stranded 600V 105C Power Cable Assembly	IntraPack	WIR0009
Control Cable Assembly	IntraPack	S003048

OSP APPLICATION
 Schneider Electric
 MGE Galaxy and EPS Battery Cabinets
 III. UUT Summary Sheets

Date: 12/12/2016

Test Report 58948R11 - UUT2

OS48 Battery Cabinet
 0.0159"-0.179" Cold Rolled Carbon Steel
 48.2"W x 33"D x 75"H,
 4,732 lbs
 Floor mounted with (6) ¾-10 Grade 5 bolts



UUT 2 – OS48

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	Horizontal		Vertical	
					A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC 156	1.30	1.0	1.5	2.08	1.56	0.87	0.35
Natural Frequencies (Hz)			Test Results					
F-B	S-S	V	The UUT maintained structural integrity and functionality after the AC156 test. UUT full of contents during testing.					
11.0	8.8	> 33.0						

OS48 Galaxy Battery Cabinet – UUT2– Internal Components		
Description	Manufacturer	Part Number
UPS12-540MR Battery	C&D	D540
S12V500 Battery	GNB	S500
12HX540 Battery	ENERSYS	HX540
400A Circuit Breaker	Square D	LHL36400-30DC-1625
4/0 Fine Stranded 600V 105C Power Cable Assembly	IntraPack	WIR0012
Control Cable Assembly	IntraPack	S003048
Output Section	IntraPack	S006182