



# APPLICATION FOR PREAPPROVAL

## SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

*For Office Use Only*

<b>APPLICATION NO.</b>
<b>OSP – 0251 – 10</b>

Check whether application is: NEW  RENEWAL

**1.0** APC by Schneider Electric Eric Guillot  
*Manufacturer* *Manufacturer's Technical Representative*

140, Avenue Jean Kuntzmann, Inovalée, 38334 Montbonnot Saint Martin, France  
*Mailing Address*

+33 4 76 18 33 09 eric.guillot@mgeups.com  
*Telephone* *E-mail Address*

**2.0** MGE EPS 7000 / 8000 UPS  
*Product Name* *Product Type*

See I. Certified Product Table attached  
*Product Model No. (List all unique product identification numbers and/or serial numbers)*

*General Description: MGE EPS systems are rigid floor-mounted, free-standing uninterrupted power supplies from 300kVA to 800kVA, Q4S cabinets, transformer cabinets, maintenance bypass cabinets, and rigidly wall mounted control boxes. Seismic enhancements made to the test units and modifications required to address anomalies observed during the tests shall be incorporated into the production units.*

**3.0** APC by Schneider Electric Eric Guillot  
*Applicant Company Name* *Contact Person*

140, Avenue Jean Kuntzmann, Inovalée, 38334 Montbonnot Saint Martin, France  
*Mailing Address*

+33 4 76 18 33 09 eric.guillot@mgeups.com  
*Telephone* *E-mail Address*

I hereby agree to reimburse the Office of Statewide Health Planning and Development for the actual costs incurred by the department for review.

*Signature of Applicant*

3/15/2013

*Date*

Multi Technology Project Integration Leader  
*Title*

APC by Schneider Electric  
*Company Name*



**Registered Design Professional Preparing the Report**

4.0

University of Alabama - Birmingham

Company Name

Lee Gholamreza Moradi

Contact Name

C41383

California License Number

4824 Sulphur Springs Rd, Hoover, AL 35226

Mailing Address

205-975-2718

Telephone

moradi@uab.edu

E-mail Address

**California Licensed Structural Engineer Review and Acceptance of the Report**

5.0

Forell/Elsesser Engineers, Inc.

Company Name

Marco Scanu, SE

Contact Name

S4454

California License Number

160 Pine St., 6<sup>th</sup> Flr., San Francisco, CA 94111

Mailing Address

415-837-0700

Telephone

m.scanu@forell.com

E-mail Address

**Anchorage Pre-Approval**

6.0

- Anchorage is pre-approved under OPA-  
(Separate application for anchorage pre-approval is required)
- Anchorage is not Pre-approved

**Certification Method**

7.0  Testing in accordance with:  ICC-ES AC-156  Other (Please Specify):

- Analysis
- Experience data
- Combination of Testing, Analysis, and/or Experience Data (Please Specify):

**Testing Laboratory (if applicable)**

8.0

Wyle Laboratories

Company Name

Rod Thornberry

Contact Name

7800 Hwy 20, Huntsville, AL 35806

Mailing Address

(256) 837-4411

Telephone

E-mail



**Approval Parameters**

9.0

Design in accordance with ASCE 7-05 Chapter 13:  Yes  No

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.06

$S_{DS}$  (Spectral response acceleration at short period) = 1.41g

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

$R_p$  (Equipment or component response modification factor) = 6.0

$I_p$  (Importance factor) = 1.5

$z/h$  (Height factor ratio) = 1.0

Equipment or Component fundamental period(s) = See attachment, "III. UUT Summary Sheets"

Building period limits (if any) = n/a

Overall dimensions and weight (or range thereof) = See attachment, "I. Certified Product Table"

Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15:  Yes  No

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

$S_{DS}$  (Spectral response acceleration at short period) =

$S_1$  (Spectral response acceleration at 1 second period) =

$R$  (Response modification coefficient) = 1.0

$\Omega_0$  (System overstrength factor) = 1.0

$C_d$  (Deflection amplification factor) = 1.0

$I_p$  (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component fundamental period(s) = Sec

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2007:  Yes  No

**10.0 List of attachments supporting the special seismic certification of equipment or components:**

- Test Report
- Drawings
- Manufacturer's Catalog
- Calculations
- Other (Please Specify): SE Acceptance Letter, Certified Product Table, Certified Subcomponents Table, UUT Summary Sheets, CBC 2010 & AC156 Requirements Checklist

**11.0 OSHPD Approval (For Office Use Only)**

  
Signature & Date

March 15, 2013

Timothy J. Piland, SSE

Name & Title

December 31, 2019

Approval Expiration Date

$S_{DS}$  (g) = 1.41  $z/h$  = 1.0

Special Seismic Certification Valid Up to

Condition of Approval (if any):

**APC by Schneider Electric - MGE EPS 7000/8000**

**I. Certified Product Table**

Unit	Width	Depth	Height	Max. Weight	Part No.	Construction Material <sup>1,2</sup>	Notes	Test Status
<b>EPS Uninterruptable Power Supply (UPS)</b>								
<b>EPS 7000</b>								
300kVA 480V Single Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TU300G	0.108" CFS	3	Interpolated
300kVA 600V Single Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TU300L	0.108" CFS	3	Interpolated
300kVA 480V Parallel Multi Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TP300G	0.108" CFS	3	Interpolated
300kVA 600V Parallel Multi Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TP300L	0.108" CFS	3	Interpolated
400kVA 480V Single Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TU400G	0.108" CFS	3	58040R10-UUT1
400kVA 600V Single Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TU400L	0.108" CFS	3	Interpolated
400kVA 480V Parallel Multi Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TP400G	0.108" CFS	3	Interpolated
400kVA 600V Parallel Multi Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TP400L	0.108" CFS	3	Interpolated
500kVA 480V Single Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TU500G	0.108" CFS	3	Interpolated
500kVA 600V Single Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TU500L	0.108" CFS	3	Interpolated
500kVA 480V Parallel Multi Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TP500G	0.108" CFS	3	Interpolated
500kVA 600V Parallel Multi Module UPS	69 in	39 in	82 in	6,900 lbs	0M-E7TP500L	0.108" CFS	3	Interpolated
<b>EPS 8000</b>								
555kVA 480V Single Module UPS	121.5 in	39 in	82 in	12,200 lbs	0M-E8TU555G	0.108" CFS	3	Interpolated
555kVA 600V Single Module UPS	121.5 in	39 in	82 in	12,200 lbs	0M-E8TU555L	0.108" CFS	3	Interpolated
555kVA 480V Parallel Multi Module UPS	121.5 in	39 in	82 in	12,200 lbs	0M-E8TP555G	0.108" CFS	3	Interpolated
555kVA 600V Parallel Multi Module UPS	121.5 in	39 in	82 in	12,200 lbs	0M-E8TP555L	0.108" CFS	3	Interpolated
555kVA 480V Integrated Parallel UPS	121.5 in	39 in	82 in	12,200 lbs	0M-E8TM555G	0.108" CFS	3	Interpolated
625kVA 480V Single Module UPS	121.5 in	39 in	82 in	12,200 lbs	0M-E8TU625G	0.108" CFS	3	Interpolated
625kVA 600V Single Module UPS	121.5 in	39 in	82 in	12,200 lbs	0M-E8TU625L	0.108" CFS	3	Interpolated
625kVA 480V Parallel Multi Module UPS	121.5 in	39 in	82 in	12,200 lbs	0M-E8TP625G	0.108" CFS	3	Interpolated
625kVA 600V Parallel Multi Module UPS	121.5 in	39 in	82 in	12,200 lbs	0M-E8TP625L	0.108" CFS	3	Interpolated
625kVA 480V Integrated Parallel UPS	121.5 in	39 in	82 in	12,200 lbs	0M-E8TM625G	0.108" CFS	3	Interpolated
750kVA 480V Single Module UPS	135.5 in	39 in	82 in	14,400 lbs	0M-E8TU750G	0.108" CFS	3,5	58195R10-UUT1, 58195R10-UUT2, 57971R10-UUT1
750kVA 600V Single Module UPS	135.5 in	39 in	82 in	14,400 lbs	0M-E8TU750L	0.108" CFS	3,5	Extrapolated
750kVA 480V Parallel Multi Module UPS	121.5 in	39 in	82 in	14,000 lbs	0M-E8TP750G	0.108" CFS	3	Extrapolated
750kVA 600V Parallel Multi Module UPS	121.5 in	39 in	82 in	14,000 lbs	0M-E8TP750L	0.108" CFS	3	Extrapolated
750kVA 380/400V Single Module UPS	135.5 in	39 in	82 in	14,400 lbs	0M-E8TU750Q	0.108" CFS	3,5	Extrapolated

FORELL/ELSESSER ENGINEERS, INC.  
160 Pine Street, 6th Floor  
San Francisco, CA 94111

**APC by Schneider Electric - MGE EPS 7000/8000**

**I. Certified Product Table**

Unit	Width	Depth	Height	Max. Weight	Part No.	Construction Material <sup>1,2</sup>	Notes	Test Status
<b>EPS Uninterruptable Power Supply (UPS) cont'd</b>								
<b>EPS 8000</b>								
750kVA 480V Parallel Multi Module UPS	121.5 in	39 in	82 in	14,000 lbs	0M-E8TP750Q	0.108" CFS	3	Extrapolated
750kVA 480V Integrated Parallel UPS	135.5 in	39 in	82 in	14,400 lbs	0M-E8TM750G	0.108" CFS	3,5	Extrapolated
800kVA 480V Single Module UPS	135.5 in	39 in	82 in	14,400 lbs	0M-E8TU800G	0.108" CFS	3,5	Extrapolated
800kVA 600V Single Module UPS	135.5 in	39 in	82 in	14,400 lbs	0M-E8TU800L	0.108" CFS	3,5	Extrapolated
800kVA 480V Parallel Multi Module UPS	121.5 in	39 in	82 in	14,000 lbs	0M-E8TP800G	0.108" CFS	3	Extrapolated
800kVA 600V Parallel Multi Module UPS	121.5 in	39 in	82 in	14,000 lbs	0M-E8TP800L	0.108" CFS	3	Extrapolated
800kVA 380/400V Single Module UPS	135.5 in	39 in	82 in	14,400 lbs	0M-E8TU800Q	0.108" CFS	3,5	Extrapolated
800kVA 380V Parallel Multi Module UPS	121.5 in	39 in	82 in	14,000 lbs	0M-E8TP800Q	0.108" CFS	3	Extrapolated
800kVA 480V Integrated Parallel UPS	135.5 in	39 in	82 in	14,400 lbs	0M-E8TM800G	0.108" CFS	3,5	Extrapolated
<b>EPS Q4S Cabinets</b>								
<b>EPS 8000</b>								
SM Q4S CABINET 1200A 480V	14.75 in	39 in	82 in	375 Lbs	0M-E8TGOPTXT006	0.108" CFS	3	58195R10-UUT2
SM Q4S CABINET 1200A 600V	14.75 in	39 in	82 in	375 Lbs	0M-E8TGOPTXT007	0.108" CFS	3	Interpolated
SM Q4S CABINET 1200A 380/400V	14.75 in	39 in	82 in	375 Lbs	0M-E8TGOPTXT008	0.108" CFS	3	Interpolated
<b>EPS Transformer Cabinets</b>								
<b>EPS 7000</b>								
XMFR INPUT ISOLATION IN AUX 480V	45 in	39 in	82 in	3,600 Lbs	0M-E7TT480	0.108" CFS	3	70102R12-UUT2C
XMFR INPUT ISOLATION IN AUX 600V	45 in	39 in	82 in	3,600 Lbs	0M-E7TT600	0.108" CFS	3	Extrapolated
<b>EPS Maintenance By-Pass Cabinets</b>								
<b>EPS 7000</b>								
3CB MBC REMOTE SM 65 KAIC 480V	24.3 in	39 in	82 in	670 lbs	0M-E7TH3CB65KR480	0.108" CFS	3	Extrapolated
3CB MBC REMOTE SM 480V	24.3 in	39 in	82 in	670 lbs	0M-E7TH3CBSTDR480	0.108" CFS	3	Extrapolated
3CB MBC ADJACENT SM 800A 65KAIC 480V	22.7 in	39 in	82 in	650 lbs	0M-E7TH3CB65KAJ480	0.108" CFS	3	Extrapolated
3CB MBC ADJACENT SM 800A STD 480V	22.7 in	39 in	82 in	650 lbs	0M-E7TH3CBSTDAJ480	0.108" CFS	3	Extrapolated
3CB MBC ADJACENT SM CB 700A 600V	22.7 in	39 in	82 in	650 lbs	0M-E7TH3CBSTDAJ600	0.108" CFS	3	58923R11-UUT2B
MBC CB 800A 65KAIC@480V REMOTE	24.3 in	39 in	82 in	670 lbs	0M-E7THCBKREM480	0.108" CFS	3	Interpolated
MBC SW 500KVA NON-RATED REMOTE	24.3 in	39 in	82 in	670 lbs	0M-E7THSWREM	0.108" CFS	3	Interpolated
MBC SW 700A NON-RATED ADJ 600V	22.7 in	39 in	82 in	650 lbs	0M-E7THSWADJ600	0.108" CFS	3	Interpolated

FORELL/ELSESSER ENGINEERS, INC.  
160 Pine Street, 6th Floor  
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**APC by Schneider Electric - MGE EPS 7000/8000**

**I. Certified Product Table**

Unit	Width	Depth	Height	Max. Weight	Part No.	Construction Material <sup>1,2</sup>	Notes	Test Status
<b>EPS Maintenance By-Pass Cabinets cont'd</b>								
<b>EPS 8000</b>								
3CB MBC REMOTE SM 1000A 65KAIC	24.3 in	39 in	82 in	770 Lbs	0M-E8TH3CB1000R	0.108" CFS	3	Interpolated
3CB MBC REMOTE SM 800A 65KAIC	24.3 in	39 in	82 in	690 Lbs	0M-E8TH3CB800R	0.108" CFS	3	Interpolated
MBC CB 800A 65KAIC@480V REMOTE	24.3 in	39 in	82 in	670 lbs	0M-E8THCB800RG	0.108" CFS	3	Interpolated
MBC SW 800A NON-RATED REMOTE	24.3 in	39 in	82 in	670 lbs	0M-E8THSW800R	0.108" CFS	3	Interpolated
MBC SW 700A NON-RATED REMOTE	24.3 in	39 in	82 in	670 lbs	0M-E8THSW700R	0.108" CFS	3	Interpolated
3CB MBC REMOTE SM 1200A 65KAIC	24.3 in	39 in	82 in	870 lbs	0M-E8TH3CB1200R6	0.108" CFS	3	Interpolated
MBP 3CB 1000A 65KA@480V	22.7 in	39 in	82 in	770 Lbs	0M-E8TH3CBK1000G	0.108" CFS	3	Interpolated
MBP 3CB 800A 65KA@480V	22.7 in	39 in	82 in	650 Lbs	0M-E8TH3CBK800G	0.108" CFS	3	Interpolated
3CB MBC ADJACENT SM 800A 65KAIC 480V	22.7 in	39 in	82 in	650 Lbs	0M-E8TH3CB800A6	0.108" CFS	3	Interpolated
3CB MBC ADJACENT SM 1000A 65KAIC 480V	22.7 in	39 in	82 in	770 Lbs	0M-E8TH3CB1000A6	0.108" CFS	3	Interpolated
3CB MBC ADJACENT SM 1200A 65KAIC 480V	22.7 in	39 in	82 in	860 Lbs	0M-E8TH3CB1200A6	0.108" CFS	3	Interpolated
3CB MBC ADJACENT SM 1200A 600V	22.7 in	39 in	82 in	860 Lbs	0M-E8TH3CB1200A600	0.108" CFS	3	Interpolated
3CB MBC ADJACENT SM 1200A 380/400V	22.7 in	39 in	82 in	860 Lbs	0M-E8TH3CB1200A380	0.108" CFS	3	58596R11-UUT3A
<b>EPS Control Boxes</b>								
<b>EPS 7000</b>								
WALL MOUNT MASTER CONTROL 2 SYSTEM CBS	14.5 in	6.5 in	18.5 in	42 Lbs	0M-E7TAMCP2SYS	0.0747" CFS	4	Extrapolated
WALL MOUNT MASTER CONTROL 3 SYSTEM CBS	16 in	6.5 in	25 in	42 Lbs	0M-E7TAMCP3SYS	0.0747" CFS	4	Extrapolated
WALL MOUNT MASTER CONTROL 4 SYSTEM CBS	16 in	6.5 in	25 in	42 Lbs	0M-E7TAMCP4SYS	0.0747" CFS	4	Extrapolated
WALL MOUNT MASTER CONTROL 5 SYSTEM CBS	16 in	6.5 in	25 in	42 Lbs	0M-E7TAMCP5SYS	0.0747" CFS	4	Extrapolated
WALL MOUNT MASTER CONTROL 6 SYSTEM CBS	16 in	6.5 in	25 in	42 Lbs	0M-E7TAMCP6SYS	0.0747" CFS	4	70102R12-UUT2B
<b>EPS 8000</b>								
WALL MOUNT MASTER CONTROL 2 SYSTEM CBS	14.5 in	6.5 in	18.5 in	42 Lbs	0M-E8TAWMCP2SYS	0.0747" CFS	4	Extrapolated
WALL MOUNT MASTER CONTROL 3 SYSTEM CBS	16 in	6.5 in	25 in	42 Lbs	0M-E8TAWMCP3SYS	0.0747" CFS	4	Extrapolated
WALL MOUNT MASTER CONTROL 4 SYSTEM CBS	16 in	6.5 in	25 in	42 Lbs	0M-E8TAWMCP4SYS	0.0747" CFS	4	Extrapolated
WALL MOUNT MASTER CONTROL 5 SYSTEM CBS	16 in	6.5 in	25 in	42 Lbs	0M-E8TAWMCP5SYS	0.0747" CFS	4	Extrapolated
WALL MOUNT MASTER CONTROL 6 SYSTEM CBS	16 in	6.5 in	25 in	42 Lbs	0M-E8TAWMCP6SYS	0.0747" CFS	4	70102R12-UUT2B
<b>EPS 7000/8000 Critical Bus Synchro Cabinet</b>								
CRITICAL BUS SYNCHRONIZATION MODULE IP	16 in	8.5 in	20 in	37 Lbs	0M-E8TAWSYNBOXIP	0.06" CFS	4	58040R10-UUT2A
AUX CABINET WITH UPS CBS CONTROLS	14 in	39 in	82 in	255 Lbs	0M-E8TACBSUPS58	0.108" CFS	3	58596R11-UUT3B

FORELL/ELSESSER ENGINEERS, INC.  
160 Pine Street, 6th Floor  
San Francisco, CA 94111

**APC by Schneider Electric - MGE EPS 7000/8000**

**I. Certified Product Table**

Unit	Width	Depth	Height	Max. Weight	Part No.	Construction Material <sup>1,2</sup>	Notes	Test Status
<p>Notes</p> <ol style="list-style-type: none"><li>1. All enclosures are NEMA 1 rated.</li><li>2. CFS= cold-formed carbon steel</li><li>3. Floor mounted.</li><li>4. Wall mounted.</li><li>5. EPS 8000 weight and width includes UPS, I/O Section and Q4S</li></ol>								

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## APC - MGE EPS 7000/8000

### II. Certified Subcomponents Table

Internal Components	Manufacturer	Component No.	Testing Status
700A 3P Service Switch (Q5N, Q3BP,Q4S)	Square D	530-2073	58923R11-UUT2B
800A 3P Service Switch (Q4S)	Square D	530-2070	58040R10-UUT1
1000A 3P Service Switch (Q1)	Square D	530-2074	58040R10-UUT1
1200A 3P Service Switch (Q4S)	Square D	530-2076	58195R10-UUT2
1200A 3P Service Switch (Q5N, Q3BP,Q4S)	Square D	530-2136	58596R11-UUT3A
1600A 3P Service Switch (Q1)	Square D	530-2159	57971R10-UUT1
SCR	Powerex	0N-9649	58040R10-UUT1
	Eupec	72-132432-00	58040R10-UUT1
		0N-9643	58195R10-UUT1
	Westcode	72-132432-01	57971R10-UUT1
72-132433-01		58040R10-UUT1	
DC Converter Power Filter	Schneider IT	0N-7213238810B02	58040R10-UUT1
	Schneider IT	72-134187-30	58195R10-UUT1
AC Converter Power Filter	Schneider IT	72-132384-00	58040R10-UUT1
	Schneider IT	72-134189-00	58195R10-UUT1
Driver PCB	Schneider IT	0P2971, 0P2789, 0P2963, 0P2979, 0P4343	58040R10-UUT1, 57971R10-UUT1, 58195R10-UUT1
Acquisition PCB	Schneider IT	0P2769, 0P2763	58040R10-UUT1, 57971R10-UUT1, 58195R10-UUT1
Control PCB	Schneider IT	0P2968, 0P2782, 0P2779, 0P3477, 0P3476	58040R10-UUT1, 58195R10-UUT1
Inverter 500kVA 480V	Onyx Power Inc.	85-134237-00	58040R10-UUT1
Input Line Filter 242A (L4)	Onyx Power Inc.	8-96450-75	58040R10-UUT1
Input Line Filter 632A (L1, L3)	Pacific Transformer	8-96800-13	57971R10-UUT1
	Onyx Power Inc.	8-96800-13	57971R10-UUT1
Input Line Filter 651A (L3)	Onyx Power Inc.	8-96450-83	58040R10-UUT1
Transformer 500kVA 480V	Onyx Power Inc.	8-96500-23	70102R12-UUT2C
Transformer 800kVA 480V	Onyx Power Inc.	430-89680037A01	58195R10-UUT1
	Onyx Power Inc.	430-89680023D01	57971R10-UUT1
PCA Master Sync Select Logic	Schneider IT	72-132165-00	70102R12-UUT2B
Relay	Square D	CA4KN40BW3	70102R12-UUT2B
Terminal Bloc	Schlegel	04-76073	70102R12-UUT2B
Panel Switch	EAO Switch	04-72058	70102R12-UUT2B
Panel Light	Dialight	04-44065	70102R12-UUT2B
Critical Bus Synchro module	Schneider IT	72-133156-00	58040R10-UUT2A
	Schneider IT	85-132112-00	58596R11-UUT3B

OSP APPLICATION  
 APC by Schneider Electric- MGE EPS 7000/8000  
 III. UUT Summary Sheets

Date: 1/28/2013

**Test Report 58040R10 – UUT1**

EPS7000 - 400kVA 480V Single Module UPS

Reference No.: 0M-E7TU400G

0.108" Cold Rolled Steel

69"W x 39"D x 82"H, 7,175 lbs

Floor mounted using: (4) seismic brackets  
 (8) ½" Grade 5, (8) M12 8.8 bolts



58040R10 – UUT1 – Internal Components		
Description	Manufacturer	Part Number
1000A 3P Service Switch (Q1)	Square D	530-2074
800A 3P Service Switch (Q4S)	Square D	530-2070
DC Converter Power Filter	Schneider IT	0N-7213238810B02
AC Converter Power Filter	Schneider IT	72-132384-00
SCR	Powerex	0N-9649
	Eupec	72-132432-00
	Westcode	72-132433-01
Driver PCB	Schneider IT	0P2971, 0P2789, 0P2963, 0P4343
Acquisition PCB	Schneider IT	0P2769, 0P2763
Control PCB	Schneider IT	0P3477, 0P3476, 0P2779
Inverter 500kVA 480V	Onyx Power Inc.	85-134237-00
Input Line Filter 651A (L3)	Onyx Power Inc.	8-96450-83
Input Line Filter 242A (L4)	Onyx Power Inc.	8-96450-75

**Shake Table Test Parameters**

BUILDING CODE	TEST CRITERIA	S <sub>Ds</sub> (g)	z/h	HORIZONTAL		VERTICAL	
				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2010	ICC-ES AC156	1.66	1.0	2.65	2.10	1.54	2.62

**Resonant Frequency Summary**

UUT Identification	RESONANT FREQUENCY (Hz)		
	Front-Back	Side-Side	Vertical
58040R10-UUT1	5.1	5.3	N/A

OSP APPLICATION  
 APC by Schneider Electric- MGE EPS 7000/8000  
 III. UUT Summary Sheets

Date: 1/28/2013

**Test Report 58195R10 – UUT1**

EPS8000 - 750kVA 480V Single Module UPS Section

Reference No.: 0M-E8TU750G (UPS)

0.108" Cold Rolled Steel

60.75"W x 39"D x 82"H, 6,675 lbs

Floor mounted using: (4) seismic brackets  
 (8) ½" Grade 5, (8) M12 8.8 bolts



**58195R10 – UUT1 – Internal Components**

Description	Manufacturer	Part Number
DC Converter Power Filter	Schneider IT	72-134187-30
AC Converter Power Filter	Schneider IT	72-134189-00
SCR	Eupec	0N-9643
Driver PCB	Schneider IT	0P2971, 0P2979
Acquisition PCB	Schneider IT	0P2763
Control PCB	Schneider IT	0P2968, 0P2782, 0P2779
Transformer 800kVA 480V	Onyx Power Inc.	430-89680037A01

**Shake Table Test Parameters**

BUILDING CODE	TEST CRITERIA	S <sub>Ds</sub> (g)	z/h	HORIZONTAL		VERTICAL	
				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2010	ICC-ES AC156	1.46	1.0	2.34	1.75	1.66	3.20

**Resonant Frequency Summary**

UUT Identification	RESONANT FREQUENCY (Hz)		
	Front-Back	Side-Side	Vertical
58195R10-UUT1	4.8	4.9	N/A

APC by Schneider Electric- MGE EPS 7000/8000

III. UUT Summary Sheets

EPS8000 - 750kVA 480V Single Module UPS – Auxiliary Q4S Sections

Reference No.: 0M-E8TGOPTXT006 (Q4S)

0.108" Cold Rolled Steel

14.75"W x 39"D x 82"H, 375 lbs

Floor mounted using: (2) seismic brackets

(4) ½" Grade 5, (4) M12 8.8 bolts



**58195R10 – UUT2 – Internal Components**

Description	Manufacturer	Part Number
1200A 3P Service Switch (Q4S)	Square D	530-2076

**Shake Table Test Parameters**

BUILDING CODE	TEST CRITERIA	S <sub>Ds</sub> (g)	z/h	HORIZONTAL		VERTICAL	
				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2010	ICC-ES AC156	1.46	1.0	2.34	1.75	1.66	3.20

**Resonant Frequency Summary**

UUT Identification	RESONANT FREQUENCY (Hz)		
	Front-Back	Side-Side	Vertical
58195R10-UUT2	4.8	4.9	N/A

OSP APPLICATION  
 APC by Schneider Electric- MGE EPS 7000/8000  
 III. UUT Summary Sheets

Date: 1/28/2013

**Test Report 57971R10 – UUT1**

EPS8000 - 750kVA 480V Single Module UPS – I/O Section

Reference No.: 0M-E8TU750G (I/O)

0.108" Cold Rolled Steel

60"W x 39"D x 82"H, 7,050 lbs

Floor mounted using: (4) seismic brackets  
 (8) ½" Grade 5, (8) M12 8.8 bolts



57971R10 – UUT1 – Internal Components		
Description	Manufacturer	Part Number
1600A 3P Service Switch (Q1)	Square D	530-2159
SCR	Westcode	72-132432-01
Driver PCB	Schneider IT	0P2971, 0P2789, 0P2963
Acquisition PCB	Schneider IT	0P2763
Transformer 800kVA 480V	Onyx Power Inc.	430-89680023D01
Input Line Filter 632A (L1, L3)	Pacific Transformer	8-96800-13
	Onyx Power Inc.	8-96800-13

**Shake Table Test Parameters**

BUILDING CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	HORIZONTAL		VERTICAL	
				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2010	ICC-ES AC156	1.67	1.0	2.81	2.00	1.60	4.63

**Resonant Frequency Summary**

UUT Identification	RESONANT FREQUENCY (Hz)		
	Front-Back	Side-Side	Vertical
57971R10-UUT1	9.8	9.4	N/A

OSP APPLICATION  
 APC by Schneider Electric- MGE EPS 7000/8000  
 III. UUT Summary Sheets

Date: 1/28/2013

**Test Report 70102R12 – UUT2C**

EPS 7000 Transformer Cabinet 500KVA  
 Reference No.: 0M-E7TT480  
 0.108" Cold Rolled Steel  
 45"W x 39"D x 82"H, 3486 lbs

Floor mounted using: (4) seismic brackets  
 (8) ½"-13 Grade 5 bolts



UUT2C on the left

**70102R12 – UUT 2C – Internal Components**

Description	Manufacturer	Part Number
Transformer 500kVA 480V	Square D	8-96500-23

**Shake Table Test Parameters**

BUILDING CODE	TEST CRITERIA	S <sub>Ds</sub> (g)	z/h	HORIZONTAL		VERTICAL	
				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2010	ICC-ES AC156	1.43	1.0	2.30	1.71	1.5	1.44

**Resonant Frequency Summary**

UUT Identification	RESONANT FREQUENCY (Hz)		
	Front-Back	Side-Side	Vertical
70102R12-UUT2C	6.6	5.9	16.0

OSP APPLICATION  
 APC by Schneider Electric- MGE EPS 7000/8000  
 III. UUT Summary Sheets

Date: 1/28/2013

**Test Report 58923R11 – UUT2B**

EPS 7000 Maintenance Bypass Cabinet 700A

Reference No.: 0M-E7TH3CBSTDAJ600

0.108" Cold Rolled Steel

22.7"W x 39"D x 82"H, 650 lbs

Floor mounted using: (2) seismic brackets  
 (4) ½"-13 Grade 5 bolts



UUT2B on the right

**58923R11-UUT2B – Internal Components**

Description	Manufacturer	Part Number
700A 3P Service Switch (Q5N, Q3BP,Q4S)	Square D	530-2073

**Shake Table Test Parameters**

BUILDING CODE	TEST CRITERIA	S <sub>Ds</sub> (g)	z/h	HORIZONTAL		VERTICAL	
				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2010	ICC-ES AC156	1.44	1.0	2.31	2.33	1.42	2.14

**Resonant Frequency Summary**

UUT Identification	RESONANT FREQUENCY (Hz)		
	Front-Back	Side-Side	Vertical
58923R11-UUT2B	4.6	2.6	26.0

**Test Report 58596R11 – UUT3A**

EPS 8000 Maintenance Bypass Cabinet 1200A  
 Reference No.: 0M-E8TH3CB1200A380  
 0.108" Cold Rolled Steel  
 23.5"W x 39"D x 82"H, 858 lbs

Floor mounted using: (2) seismic brackets  
 (4) ½"-13 Grade 5 bolts



UUT3A on the left

**58596R11 – UUT 3A – Internal Components**

Description	Manufacturer	Part Number
1200A 3P Service Switch (Q5N, Q3BP,Q4S)	Square D	530-2136

**Shake Table Test Parameters**

BUILDING CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	HORIZONTAL		VERTICAL	
				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2010	ICC-ES AC156	1.41	1.0	2.26	1.90	1.47	1.42

**Resonant Frequency Summary**

UUT Identification	RESONANT FREQUENCY (Hz)		
	Front-Back	Side-Side	Vertical
58596R11-UUT3A	7.0	7.0	N/A

OSP APPLICATION  
 APC by Schneider Electric- MGE EPS 7000/8000  
 III. UUT Summary Sheets

Date: 1/28/2013

**Test Report 70102R12 – UUT2B**

EPS WM Master Control 6 System CBS  
 Reference No.: 0M-E8TAWMCP6SYS  
 0.0747" Cold Rolled Steel  
 12"W x 4.5"D x 17.5"H, 42 lbs

Wall mounted using: (4) 1/4" Grade 5 bolts



**70102R12 – UUT 2B– Internal Components**

Description	Manufacturer	Part Number
PCA Master Sync Select Logic	Schneider IT	72-132165-00
Relay	Square D	CA4KN40BW3
Terminal Bloc	Schlegel	04-76073
Panel Switch	EAO Switch	04-72058
Panel Light	Dialight	04-44065

**Shake Table Test Parameters**

BUILDING CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	HORIZONTAL		VERTICAL	
				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2010	ICC-ES AC156	1.43	1.0	2.30	1.71	1.5	1.44

OSP APPLICATION  
 APC by Schneider Electric- MGE EPS 7000/8000  
 III. UUT Summary Sheets

Date: 1/28/2013

**Test Report 58040R10 – UUT 2A**

EPS Critical Bus Synchro  
 Model No.: 0M-E8TAWSYNBOXIP  
 0.06" Cold Formed Carbon Steel  
 16"W x 8.5"D x 20"H, 37 lbs  
 Wall mounted using: (4) 1/4" - 20 Grade 5 bolts



**58040R10-UUT2A– Internal Components**

Description	Manufacturer	Part Number
Critical Bus Synchro module	Schneider IT	72-133156-00

**Shake Table Test Parameters**

BUILDING CODE	TEST CRITERIA	S <sub>Ds</sub> (g)	z/h	HORIZONTAL		VERTICAL	
				A <sub>FLEX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLEX-V</sub>	A <sub>RIG-V</sub>
CBC 2010	ICC-ES AC156	1.71	1.0	2.74	2.05	1.43	1.20

**Test Report 58596R11 – UUT3B**

EPS 7000/8000 Critical Bus Synchro Cabinet  
 Reference No.: 0M-E8TACBSUPS58  
 0.108" Cold Rolled Steel  
 14"W x 39"D x 82"H, 253 lbs

Floor mounted using: (2) seismic brackets  
 (4) ½"-13 Grade 5 bolts



UUT3B on the right

**58596R11 – UUT 3B – Internal Components**

Description	Manufacturer	Part Number
Critical Bus Synchro Module	Schneider IT	85-132112-00

**Shake Table Test Parameters**

BUILDING CODE	TEST CRITERIA	S <sub>Ds</sub> (g)	z/h	HORIZONTAL		VERTICAL	
				A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2010	ICC-ES AC156	1.41	1.0	2.26	1.90	1.47	1.42

**Resonant Frequency Summary**

UUT Identification	RESONANT FREQUENCY (Hz)		
	Front-Back	Side-Side	Vertical
58596R11-UUT3B	6.1	8.5	N/A