



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0088-10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: C&C POWER, INC.

Manufacturer's Technical Representative: Chris Heinz

Mailing Address: 949 North Larch Avenue, Elmhurst, IL. 60126

Telephone: (630) 617-9022 Email: On File

Product Information

Product Name: SEE ATTACHMENT 1

Product Type: Battery Cabinets

Product Model Number: SEE ATTACHMENT 1

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

General Description: Battery Cabinets

Mounting Description: Rigid base mounted

Applicant Information

Applicant Company Name: EASE Co.

Contact Person: JONATHAN ROBERSON, S.E.

Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Telephone: (909) 606-7622 Email: j.roberson@easeco.com

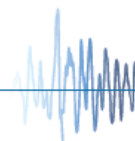
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant:  Date: January 17, 2014

Title: Principal Engineer Company Name: EASE Co.

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 6/14/13)



osHPD

Page 1 of 3



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

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

Company Name: EASE Co.

Name: Jonathan Roberson, S.E. California License Number: S4197

Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Telephone: 909-606-7622 Email: j.roberson@easeco.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): _____
- _____
- _____

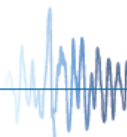
Testing Laboratory

Company Name: Environmental Testing Laboratory, Inc.

Contact Name: Brady Richard

Mailing Address: 11034 Indian Trail, Dallas, TX 75229-3513

Telephone: 972-247-9657 Email: brady@etldallas.com





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

Design Basis of Equipment or Components (F_p/W_p) = 1.39 (BC39 & BC43) / 1.44 (All other models)

S_{DS} (Design spectral response acceleration at short period, g) = 1.93 (BC39 & BC43) / 2.0 (All other models)

a_p (In-structure equipment or component amplification factor) = 1

R_p (Equipment or component response modification factor) = 2½

Ω_0 (System overstrength factor) = 2½

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = SEE ATTACHMENT 2

Overall dimensions and weight (or range thereof) = SEE ATTACHMENT 1

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) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (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, 2010: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): ATTACHMENTS 1 & 2

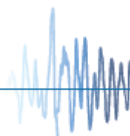
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2019

Signature:  Date: 4/8/2012

Print Name: M. R. Karim Title: SHFR

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

Condition of Approval (if applicable): _____



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1: SEISMIC CERTIFIED COMPONENTS

<i>Manufacturer</i>	C&C POWER						
<i>Product Line</i>	BC & UBC Series battery cabinets						
CO	MODEL NUMBER ^[2] ^[3]	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]
		W	D	H			
BC Cabinets							
BC39	39xxxxxxxxxxxxxxxxxxH1xx	36	29.5	70.7	3630	Floor	INT
BC43	43xxxxxxxxxxxxxxxxxxH1xx	36	29.5	78.5	3630	Floor	UUT1
BC55	55xxxxxxxxxxxxxxxxxxH1xx	40	29.5	78.7	5300	Floor	UUT2
UBC Cabinets							
UBC40	U4xxxxxxxxxxxxxxxxxxH1xx	30.5	31.5	78.73	3000	Floor	INT
UBC64	U6xxxxxxxxxxxxxxxxxxH1xx	46.5	31.5	82	5500	Floor	UUT3
UBC75	U7xxxxxxxxxxxxxxxxxxH1xx	48.5	33.56	84	7150	Floor	UUT4
UBC77	P7xxxxxxxxxxxxxxxxxxH1xx	55	34.3	73.8	6000	Floor	INT
<i>Enclosure</i>	NEMA Type 1 enclosure listed to UL1778. Painted carbon steel cabinet: 10 ga. sides and top, 11 ga. back panel with reinforced framing at front opening. Each battery cabinet series includes provisions for securing individual batteries in place and damping potential battery impacts.						
<i>Mounting</i>	RIGID BASE (FLOOR) MOUNTED: a free-standing, base mounted condition with the component rigidly attached to a supporting structure and no lateral support above the base.						
<i>Notes</i>	<ol style="list-style-type: none"> BASIS: <ul style="list-style-type: none"> UUT#: Indicates that a test specimen matching these characteristics was tested. INT (Interpolate or Extrapolate): indicates a model that was not specifically tested and by which seismic qualification was established through evaluation of testing of other, similar models in the product line. Each alphanumeric character of the Model Number defines a configurable option in the battery cabinet. For a complete listing of the character codes recognized and accepted by this report, see Figure 1. Certification limited to components in Table 1 which include the subcomponents listed in Table 2. 						

TABLE 2: SUBCOMPONENTS

DESCRIPTION	MANUFACTURER	PART #	BASIS
BATTERIES			
Energys HX	Energys	12HX205	INT
Energys HX	Energys	12HX300	INT
Energys HX	Energys	12HX330	INT
Energys HX	Energys	12HX400	INT
Energys HX	Energys	12HX505	UUT1
Energys HX	Energys	12HX540	UUT2
Deka Unigy HR	EAST PENN Manufacturing Co. Inc.	U1HR1500	INT
Deka Unigy HR	EAST PENN Manufacturing Co. Inc.	45HR2000	INT
Deka Unigy HR	EAST PENN Manufacturing Co. Inc.	24HR3000	INT
Deka Unigy HR	EAST PENN Manufacturing Co. Inc.	HR3000	INT
Deka Unigy HR	EAST PENN Manufacturing Co. Inc.	27HR3500	INT
Deka Unigy HR	EAST PENN Manufacturing Co. Inc.	HR3500	INT
Deka Unigy HR	EAST PENN Manufacturing Co. Inc.	31HR4000	INT
Deka Unigy HR	EAST PENN Manufacturing Co. Inc.	HR4000	INT
Deka Unigy HR	EAST PENN Manufacturing Co. Inc.	31HR5000	UUT2
Deka Unigy HR	EAST PENN Manufacturing Co. Inc.	HR5500	INT
Deka HR Front Access	EAST PENN Manufacturing Co. Inc.	HR3500ET	INT
Deka HR Front Access	EAST PENN Manufacturing Co. Inc.	HR5500ET	UUT3
Deka HR Front Access	EAST PENN Manufacturing Co. Inc.	HR7500ET	INT
Deka AVR Front Access	EAST PENN Manufacturing Co. Inc.	12AVR100ET	INT
Deka AVR Front Access	EAST PENN Manufacturing Co. Inc.	12AVR150ET	UUT3
GNB Sprinter	GNB Industrial Power	S12V120F	INT
GNB Sprinter	GNB Industrial Power	S12V170F	INT
GNB Sprinter	GNB Industrial Power	S12V285F	INT
GNB Sprinter	GNB Industrial Power	S12V300F	INT
GNB Sprinter	GNB Industrial Power	S12V370F	INT
GNB Sprinter	GNB Industrial Power	S12V500F	UUT2

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2: SUBCOMPONENTS

DESCRIPTION	MANUFACTURER	PART #	BASIS
CIRCUIT BREAKERS			
80A Series C Circuit Breaker	Eaton / Cutler Hammer	HFDDC3080L	INT
90A Series C Circuit Breaker	Eaton / Cutler Hammer	HFDDC3090L	INT
100A Series C Circuit Breaker	Eaton / Cutler Hammer	HFDDC3100L	INT
110A Series C Circuit Breaker	Eaton / Cutler Hammer	HFDDC3110L	INT
125A Series C Circuit Breaker	Eaton / Cutler Hammer	HFDDC3125L	INT
150A Series C Circuit Breaker	Eaton / Cutler Hammer	HFDDC3150L	INT
175A Series C Circuit Breaker	Eaton / Cutler Hammer	HFDDC3175L	INT
200A Series C Circuit Breaker	Eaton / Cutler Hammer	HFDDC3200L	INT
225A Series C Circuit Breaker	Eaton / Cutler Hammer	HFDDC3225L	INT
250A Series C Circuit Breaker	Eaton / Cutler Hammer	HJDDC3250F	INT
300A-400A Series C Circuit Breaker	Eaton / Cutler Hammer	HKDDC3400F	INT
450A-600A Series C Circuit Breaker	Eaton / Cutler Hammer	HLDDC3600F	UUT2
700A-800A Series C Circuit Breaker	Eaton / Cutler Hammer	HMDLDC3800F	UUT3
250A-600A Series G Circuit Breaker	Eaton / Cutler Hammer	LGEDC3630NN	INT
100A VL Series Circuit Breaker	Siemens	NFG3B100L	INT
110A VL Series Circuit Breaker	Siemens	NFG3B110L	INT
125A VL Series Circuit Breaker	Siemens	NFG3B125L	INT
150A VL Series Circuit Breaker	Siemens	NFG3B150L	INT
175A VL Series Circuit Breaker	Siemens	NFG3B175L	INT
200A VL Series Circuit Breaker	Siemens	NFG3B200L	INT
225A VL Series Circuit Breaker	Siemens	NFG3B225L	INT
250A VL Series Circuit Breaker	Siemens	NFG3B250L	INT
300A VL Series Circuit Breaker	Siemens	NJG3B300L	UUT4
350A VL Series Circuit Breaker	Siemens	NJG3B350L	INT
400A VL Series Circuit Breaker	Siemens	NJG3B400L	UUT1
500A VL Series Circuit Breaker	Siemens	NLK3B500L	INT
600A VL Series Circuit Breaker	Siemens	NLK3B600L	INT
700A VL Series Circuit Breaker	Siemens	NMG3B700L	INT
800A VL Series Circuit Breaker	Siemens	NMG3B800L	INT
CIRCUIT BREAKER ACCESSORIES			
CIRCUIT BREAKERS			
Series C F-Frame Alarm Switch 1 Left	Eaton / Cutler Hammer	A1L1LPK	INT
Series C F-Frame Alarm Switch 1 Right	Eaton / Cutler Hammer	A1L1RPK	INT
Series C F-Frame Alarm Switch 2 Left	Eaton / Cutler Hammer	A2L1LPK	INT
Series C F-Frame Alarm Switch 2 Right	Eaton / Cutler Hammer	A2L1RPK	INT
Series C J-Frame Alarm Switch 1 Left	Eaton / Cutler Hammer	A1L2LPK	INT
Series C J-Frame Alarm Switch 1 Right	Eaton / Cutler Hammer	A1L2RPK	INT
Series C K-Frame Alarm Switch 1 Left	Eaton / Cutler Hammer	A1L3LPK	INT
Series C K-Frame Alarm Switch 1 Right	Eaton / Cutler Hammer	A1L3RPK	INT
Series C K-Frame Alarm Switch 2 Left	Eaton / Cutler Hammer	A2L3LPK	INT
Series C K-Frame Alarm Switch 2 Right	Eaton / Cutler Hammer	A2L3RPK	INT
Series C L-Frame & M-Frame Alarm Switch 1 Left	Eaton / Cutler Hammer	A1L4LPK	INT
Series C L-Frame & M-Frame Alarm Switch 1 Right	Eaton / Cutler Hammer	A1L4RPK	INT
Series C L-Frame & M-Frame Alarm Switch 2 Left	Eaton / Cutler Hammer	A2L4LPK	INT
Series C L-Frame & M-Frame Alarm Switch 2 Right	Eaton / Cutler Hammer	A2L4RPK	INT
Series C F-Frame Auxiliary Switch 1	Eaton / Cutler Hammer	A1X1PK	INT
Series C F-Frame Auxiliary Switch 2 Left	Eaton / Cutler Hammer	A2X1LPK	INT
Series C F-Frame Auxiliary Switch 2 Right	Eaton / Cutler Hammer	A2X1RPK	INT
Series C J-Frame Auxiliary Switch 1	Eaton / Cutler Hammer	A1X2PK	INT
Series C J-Frame Auxiliary Switch 2	Eaton / Cutler Hammer	A2X2PK	INT
Series C K-Frame Auxiliary Switch 1	Eaton / Cutler Hammer	A1X3PK	INT
Series C K-Frame Auxiliary Switch 2	Eaton / Cutler Hammer	A2X3PK	INT
Series C L-Frame & M-Frame Alarm Switch 1	Eaton / Cutler Hammer	A1X4PK	INT
Series C L-Frame & M-Frame Alarm Switch 2	Eaton / Cutler Hammer	A2X4PK	INT
Series C F-Frame Auxiliary & Alarm Switch Left	Eaton / Cutler Hammer	AAL1LPK	INT
Series C F-Frame Auxiliary & Alarm Switch Right	Eaton / Cutler Hammer	AAL1RPK	INT
Series C J-Frame Auxiliary & Alarm Switch Left	Eaton / Cutler Hammer	AAL2LPK	INT
Series C J-Frame Auxiliary & Alarm Switch Right	Eaton / Cutler Hammer	AAL2RPK	INT
Series C K-Frame Auxiliary & Alarm Switch Left	Eaton / Cutler Hammer	AAL3LPK	INT
Series C K-Frame Auxiliary & Alarm Switch Right	Eaton / Cutler Hammer	AAL3RPK	INT

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2: SUBCOMPONENTS

DESCRIPTION	MANUFACTURER	PART #	BASIS
Series C L-Frame & M-Frame Auxiliary & Alarm Switch 1A/1B Left	Eaton / Cutler Hammer	AA114LPK	UUT2, UUT3
Series C L-Frame & M-Frame Auxiliary & Alarm Switch 1A/1B Right	Eaton / Cutler Hammer	AA114RPK	INT
Series C L-Frame & M-Frame Auxiliary & Alarm Switch 2A/2B Left	Eaton / Cutler Hammer	AA214LPK	INT
Series C L-Frame & M-Frame Auxiliary & Alarm Switch 2A/2B Right	Eaton / Cutler Hammer	AA214RPK	INT
Series C F-Frame Shunt Trip 12-24VAC/VDC Left	Eaton / Cutler Hammer	SNT1LP03K	INT
Series C F-Frame Shunt Trip 12-24VAC/VDC Right	Eaton / Cutler Hammer	SNT1RP03K	INT
Series C F-Frame Shunt Trip 48-127VAC 48-60VDC Left	Eaton / Cutler Hammer	SNT1LP08K	INT
Series C F-Frame Shunt Trip 48-127VAC 48-60VDC Right	Eaton / Cutler Hammer	SNT1RP08K	INT
Series C F-Frame Shunt Trip 208-380VAC 110-127VDC Left	Eaton / Cutler Hammer	SNT1LP12K	INT
Series C F-Frame Shunt Trip 208-380VAC 110-127VDC Right	Eaton / Cutler Hammer	SNT1RP12K	INT
Series C F-Frame Shunt Trip 415-600VAC 220-250VDC Left	Eaton / Cutler Hammer	SNT1LP18K	INT
Series C F-Frame Shunt Trip 415-600VAC 220-250VDC Right	Eaton / Cutler Hammer	SNT1RP18K	INT
Series C J-Frame Shunt Trip 12-24VAC/VDC	Eaton / Cutler Hammer	SNT2P04K	INT
Series C J-Frame Shunt Trip 48-60VAC/VDC	Eaton / Cutler Hammer	SNT2P06K	INT
Series C J-Frame Shunt Trip 110-240VAC 110-125VDC	Eaton / Cutler Hammer	SNT2P11K	INT
Series C J-Frame Shunt Trip 380-440VAC 220-250VDC	Eaton / Cutler Hammer	SNT2P14K	INT
Series C J-Frame Shunt Trip 480-600VAC	Eaton / Cutler Hammer	SNT2P18K	INT
Series C K-Frame Shunt Trip 12-24VAC/VDC	Eaton / Cutler Hammer	SNT3P04K	INT
Series C K-Frame Shunt Trip 48-60VAC/VDC	Eaton / Cutler Hammer	SNT3P06K	INT
Series C K-Frame Shunt Trip 110-240VAC 110-125VDC	Eaton / Cutler Hammer	SNT3P11K	INT
Series C K-Frame Shunt Trip 380-440VAC 220-250VDC	Eaton / Cutler Hammer	SNT3P14K	INT
Series C K-Frame Shunt Trip 480-600VAC	Eaton / Cutler Hammer	SNT3P18K	INT
Series C L-Frame & M-Frame Shunt Trip 12-24VAC/VDC Left	Eaton / Cutler Hammer	SNT4LP03K	INT
Series C L-Frame & M-Frame Shunt Trip 12-24VAC/VDC Right	Eaton / Cutler Hammer	SNT4RP03K	INT
Series C L-Frame & M-Frame Shunt Trip 48-60VAC Left	Eaton / Cutler Hammer	SNT4LP05K	INT
Series C L-Frame & M-Frame Shunt Trip 48-60VAC Right	Eaton / Cutler Hammer	SNT4RP05K	INT
Series C L-Frame & M-Frame Shunt Trip 48-60VDC Left	Eaton / Cutler Hammer	SNT4LP23K	INT
Series C L-Frame & M-Frame Shunt Trip 48-60VDC Right	Eaton / Cutler Hammer	SNT4RP23K	INT
Series C L-Frame & M-Frame Shunt Trip 110-240VAC Left	Eaton / Cutler Hammer	SNT4LP11K	INT
Series C L-Frame & M-Frame Shunt Trip 110-240VAC Right	Eaton / Cutler Hammer	SNT4RP11K	INT
Series C L-Frame & M-Frame Shunt Trip 110-125VDC Left	Eaton / Cutler Hammer	SNT4LP26K	INT
Series C L-Frame & M-Frame Shunt Trip 110-125VDC Right	Eaton / Cutler Hammer	SNT4RP26K	INT
Series C L-Frame & M-Frame Shunt Trip 380-440VAC 220-250VDC Left	Eaton / Cutler Hammer	SNT4LP14K	INT
Series C L-Frame & M-Frame Shunt Trip 380-440VAC 220-250VDC Right	Eaton / Cutler Hammer	SNT4RP14K	INT
Series C L-Frame & M-Frame Shunt Trip 480-600VAC Left	Eaton / Cutler Hammer	SNT4LP18K	INT
Series C L-Frame & M-Frame Shunt Trip 480-600VAC Right	Eaton / Cutler Hammer	SNT4RP18K	INT
Series C F-Frame Undervoltage Release 12VAC Left	Eaton / Cutler Hammer	UVH1LP02K	INT
Series C F-Frame Undervoltage Release 12VAC Right	Eaton / Cutler Hammer	UVH1RP02K	INT
Series C F-Frame Undervoltage Release 24VAC Left	Eaton / Cutler Hammer	UVH1LP03K	INT
Series C F-Frame Undervoltage Release 24VAC Right	Eaton / Cutler Hammer	UVH1RP03K	INT
Series C F-Frame Undervoltage Release 48VAC Left	Eaton / Cutler Hammer	UVH1LP22K	INT
Series C F-Frame Undervoltage Release 48VAC Right	Eaton / Cutler Hammer	UVH1RP22K	INT
Series C F-Frame Undervoltage Release 60VAC Left	Eaton / Cutler Hammer	UVH1LP24K	INT
Series C F-Frame Undervoltage Release 60VAC Right	Eaton / Cutler Hammer	UVH1RP24K	INT
Series C F-Frame Undervoltage Release 110-127VAC Left	Eaton / Cutler Hammer	UVH1LP08K	INT
Series C F-Frame Undervoltage Release 110-127VAC Right	Eaton / Cutler Hammer	UVH1RP08K	INT
Series C F-Frame Undervoltage Release 208-240VAC Left	Eaton / Cutler Hammer	UVH1LP11K	INT
Series C F-Frame Undervoltage Release 208-240VAC Right	Eaton / Cutler Hammer	UVH1RP11K	INT
Series C F-Frame Undervoltage Release 380-480VAC Left	Eaton / Cutler Hammer	UVH1LP15K	INT
Series C F-Frame Undervoltage Release 380-480VAC Right	Eaton / Cutler Hammer	UVH1RP15K	INT
Series C F-Frame Undervoltage Release 525-600VAC Left	Eaton / Cutler Hammer	UVH1LP18K	INT
Series C F-Frame Undervoltage Release 525-600VAC Right	Eaton / Cutler Hammer	UVH1RP18K	INT
Series C F-Frame Undervoltage Release 12VDC Left	Eaton / Cutler Hammer	UVH1LP20K	INT

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2: SUBCOMPONENTS

DESCRIPTION	MANUFACTURER	PART #	BASIS
Series C F-Frame Undervoltage Release 12VDC Right	Eaton / Cutler Hammer	UVH1RP20K	INT
Series C F-Frame Undervoltage Release 24VDC Left	Eaton / Cutler Hammer	UVH1LP21K	INT
Series C F-Frame Undervoltage Release 24VDC Right	Eaton / Cutler Hammer	UVH1RP21K	INT
Series C F-Frame Undervoltage Release 48VDC Left	Eaton / Cutler Hammer	UVH1LP22K	INT
Series C F-Frame Undervoltage Release 48VDC Right	Eaton / Cutler Hammer	UVH1RP22K	INT
Series C F-Frame Undervoltage Release 60VDC Left	Eaton / Cutler Hammer	UVH1LP24K	INT
Series C F-Frame Undervoltage Release 60VDC Right	Eaton / Cutler Hammer	UVH1RP22K	INT
Series C F-Frame Undervoltage Release 110-127VDC Left	Eaton / Cutler Hammer	UVH1LP26K	INT
Series C F-Frame Undervoltage Release 110-127VDC Right	Eaton / Cutler Hammer	UVH1RP26K	INT
Series C F-Frame Undervoltage Release 220-250VDC Left	Eaton / Cutler Hammer	UVH1LP28K	INT
Series C F-Frame Undervoltage Release 220-250VDC Right	Eaton / Cutler Hammer	UVH1RP28K	INT
Series C J-Frame Undervoltage Release 12VAC Left	Eaton / Cutler Hammer	UVH2LP02K	INT
Series C J-Frame Undervoltage Release 12VAC Right	Eaton / Cutler Hammer	UVH2RP02K	INT
Series C J-Frame Undervoltage Release 24VAC Left	Eaton / Cutler Hammer	UVH2LP03K	INT
Series C J-Frame Undervoltage Release 24VAC Right	Eaton / Cutler Hammer	UVH2RP03K	INT
Series C J-Frame Undervoltage Release 48-60VAC Left	Eaton / Cutler Hammer	UVH2LP05K	INT
Series C J-Frame Undervoltage Release 48-60VAC Right	Eaton / Cutler Hammer	UVH2RP05K	INT
Series C J-Frame Undervoltage Release 110-127VAC Left	Eaton / Cutler Hammer	UVH2LP08K	INT
Series C J-Frame Undervoltage Release 110-127VAC Right	Eaton / Cutler Hammer	UVH2RP08K	INT
Series C J-Frame Undervoltage Release 208-240VAC Left	Eaton / Cutler Hammer	UVH2LP11K	INT
Series C J-Frame Undervoltage Release 208-240VAC Right	Eaton / Cutler Hammer	UVH2RP11K	INT
Series C J-Frame Undervoltage Release 380-480VAC Left	Eaton / Cutler Hammer	UVH2LP15K	INT
Series C J-Frame Undervoltage Release 380-480VAC Right	Eaton / Cutler Hammer	UVH2RP15K	INT
Series C J-Frame Undervoltage Release 12VDC Left	Eaton / Cutler Hammer	UVH2LP20K	INT
Series C J-Frame Undervoltage Release 12VDC Right	Eaton / Cutler Hammer	UVH2RP20K	INT
Series C J-Frame Undervoltage Release 24VDC Left	Eaton / Cutler Hammer	UVH2LP21K	INT
Series C J-Frame Undervoltage Release 24VDC Right	Eaton / Cutler Hammer	UVH2RP21K	INT
Series C J-Frame Undervoltage Release 48-60VDC Left	Eaton / Cutler Hammer	UVH2LP23K	INT
Series C J-Frame Undervoltage Release 48-60VDC Right	Eaton / Cutler Hammer	UVH2RP23K	INT
Series C J-Frame Undervoltage Release 110-127VDC Left	Eaton / Cutler Hammer	UVH2LP26K	INT
Series C J-Frame Undervoltage Release 110-127VDC Right	Eaton / Cutler Hammer	UVH2RP26K	INT
Series C J-Frame Undervoltage Release 220-250VDC Left	Eaton / Cutler Hammer	UVH2LP28K	INT
Series C J-Frame Undervoltage Release 220-250VDC Right	Eaton / Cutler Hammer	UVH2RP28K	INT
Series C K-Frame Undervoltage Release 12VAC Left	Eaton / Cutler Hammer	UVH3LP02K	INT
Series C K-Frame Undervoltage Release 12VAC Right	Eaton / Cutler Hammer	UVH3RP02K	INT
Series C K-Frame Undervoltage Release 24VAC Left	Eaton / Cutler Hammer	UVH3LP03K	INT
Series C K-Frame Undervoltage Release 24VAC Right	Eaton / Cutler Hammer	UVH3RP03K	INT
Series C K-Frame Undervoltage Release 48-60VAC Left	Eaton / Cutler Hammer	UVH3LP05K	INT
Series C K-Frame Undervoltage Release 48-60VAC Right	Eaton / Cutler Hammer	UVH3RP05K	INT
Series C K-Frame Undervoltage Release 110-127VAC Left	Eaton / Cutler Hammer	UVH3LP08K	INT
Series C K-Frame Undervoltage Release 110-127VAC Right	Eaton / Cutler Hammer	UVH3RP08K	INT
Series C K-Frame Undervoltage Release 208-240VAC Left	Eaton / Cutler Hammer	UVH3LP11K	INT
Series C K-Frame Undervoltage Release 208-240VAC Right	Eaton / Cutler Hammer	UVH3RP11K	INT
Series C K-Frame Undervoltage Release 380-480VAC Left	Eaton / Cutler Hammer	UVH3LP15K	INT
Series C K-Frame Undervoltage Release 380-480VAC Right	Eaton / Cutler Hammer	UVH3RP15K	INT
Series C K-Frame Undervoltage Release 12VDC Left	Eaton / Cutler Hammer	UVH3LP20K	INT
Series C K-Frame Undervoltage Release 12VDC Right	Eaton / Cutler Hammer	UVH3RP20K	INT
Series C K-Frame Undervoltage Release 24VDC Left	Eaton / Cutler Hammer	UVH3LP21K	INT
Series C K-Frame Undervoltage Release 24VDC Right	Eaton / Cutler Hammer	UVH3RP21K	INT
Series C K-Frame Undervoltage Release 48-60VDC Left	Eaton / Cutler Hammer	UVH3LP23K	INT
Series C K-Frame Undervoltage Release 48-60VDC Right	Eaton / Cutler Hammer	UVH3RP23K	INT
Series C K-Frame Undervoltage Release 110-127VDC Left	Eaton / Cutler Hammer	UVH3LP26K	INT
Series C K-Frame Undervoltage Release 110-127VDC Right	Eaton / Cutler Hammer	UVH3RP26K	INT
Series C K-Frame Undervoltage Release 220-250VDC Left	Eaton / Cutler Hammer	UVH3LP28K	INT
Series C K-Frame Undervoltage Release 220-250VDC Right	Eaton / Cutler Hammer	UVH3RP28K	INT
Series C L-Frame & M-Frame Undervoltage Release 12VAC Left	Eaton / Cutler Hammer	UVH4LP02K	INT
Series C L-Frame & M-Frame Undervoltage Release 12VAC Right	Eaton / Cutler Hammer	UVH4RP02K	INT
Series C L-Frame & M-Frame Undervoltage Release 24VAC Left	Eaton / Cutler Hammer	UVH4LP03K	INT

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2: SUBCOMPONENTS

DESCRIPTION	MANUFACTURER	PART #	BASIS
Series C L-Frame & M-Frame Undervoltage Release 24VAC Right	Eaton / Cutler Hammer	UVH4RP03K	INT
Series C L-Frame & M-Frame Undervoltage Release 48-60VAC Left	Eaton / Cutler Hammer	UVH4LP05K	INT
Series C L-Frame & M-Frame Undervoltage Release 48-60VAC Right	Eaton / Cutler Hammer	UVH4RP05K	INT
Series C L-Frame & M-Frame Undervoltage Release 110-127VAC Left	Eaton / Cutler Hammer	UVH4LP08K	INT
Series C L-Frame & M-Frame Undervoltage Release 110-127VAC Right	Eaton / Cutler Hammer	UVH4RP08K	INT
Series C L-Frame & M-Frame Undervoltage Release 208-240VAC Left	Eaton / Cutler Hammer	UVH4LP11K	INT
Series C L-Frame & M-Frame Undervoltage Release 208-240VAC Right	Eaton / Cutler Hammer	UVH4RP11K	INT
Series C L-Frame & M-Frame Undervoltage Release 380-480VAC Left	Eaton / Cutler Hammer	UVH4LP15K	INT
Series C L-Frame & M-Frame Undervoltage Release 380-480VAC Right	Eaton / Cutler Hammer	UVH4RP15K	INT
Series C L-Frame & M-Frame Undervoltage Release 12VDC Left	Eaton / Cutler Hammer	UVH4LP20K	INT
Series C L-Frame & M-Frame Undervoltage Release 12VDC Right	Eaton / Cutler Hammer	UVH4RP20K	INT
Series C L-Frame & M-Frame Undervoltage Release 24VDC Left	Eaton / Cutler Hammer	UVH4LP21K	INT
Series C L-Frame & M-Frame Undervoltage Release 24VDC Right	Eaton / Cutler Hammer	UVH4RP21K	UUT2, UUT3
Series C L-Frame & M-Frame Undervoltage Release 48-60VDC Left	Eaton / Cutler Hammer	UVH4LP23K	INT
Series C L-Frame & M-Frame Undervoltage Release 48-60VDC Right	Eaton / Cutler Hammer	UVH4RP23K	INT
Series C L-Frame & M-Frame Undervoltage Release 110-127VDC Left	Eaton / Cutler Hammer	UVH4LP26K	INT
Series C L-Frame & M-Frame Undervoltage Release 110-127VDC Right	Eaton / Cutler Hammer	UVH4RP26K	INT
Series C L-Frame & M-Frame Undervoltage Release 220-250VDC Left	Eaton / Cutler Hammer	UVH4LP28K	INT
Series C L-Frame & M-Frame Undervoltage Release 220-250VDC Right	Eaton / Cutler Hammer	UVH4RP28K	INT
Series G JG & LG Frame Alarm Lockout 1	Eaton / Cutler Hammer	ALM1M1BJPK	INT
Series G JG & LG Frame Alarm Lockout 2	Eaton / Cutler Hammer	ALM2M2BJPK	INT
Series G EG, JG, & LG Frame Auxiliary Switch 1A/1B	Eaton / Cutler Hammer	AUX1A1BPK	INT
Series G EG, JG, & LG Frame Auxiliary Switch 2A/2B	Eaton / Cutler Hammer	AUX2A2BPK	INT
Series G JG & LG Frame Auxiliary Switch & Alarm Lockout	Eaton / Cutler Hammer	AUXALRMJPK	INT
Series G EG, JG, & LG Frame Shunt Trip 48-60VAC	Eaton / Cutler Hammer	SNT060CPK	INT
Series G EG, JG, & LG Frame Shunt Trip 10-240VAC	Eaton / Cutler Hammer	SNT120CPK	INT
Series G EG, JG, & LG Frame Shunt Trip 380-600VAC/VDC	Eaton / Cutler Hammer	SNT480CPK	INT
Series G EG, JG, & LG Frame Shunt Trip 12VDC	Eaton / Cutler Hammer	SNT012CPK	INT
Series G EG, JG, & LG Frame Shunt Trip 24VAC/VDC & 48-60VDC	Eaton / Cutler Hammer	SNT060CPK	INT
Series G EG, JG, & LG Frame Shunt Trip 110-125VDC	Eaton / Cutler Hammer	SNT125DPK	INT
Series G EG, JG, & LG Frame Undervoltage Release 24VAC	Eaton / Cutler Hammer	UVR024APK	INT
Series G EG, JG, & LG Frame Undervoltage Release 48-60VAC	Eaton / Cutler Hammer	UVR048APK	INT
Series G EG, JG, & LG Frame Undervoltage Release 110-127VAC	Eaton / Cutler Hammer	UVR120APK	INT
Series G EG, JG, & LG Frame Undervoltage Release 208-240VAC	Eaton / Cutler Hammer	UVR240APK	INT
Series G EG, JG, & LG Frame Undervoltage Release 380-500VAC	Eaton / Cutler Hammer	UVR480APK	INT
Series G EG, JG, & LG Frame Undervoltage Release 525-600VAC	Eaton / Cutler Hammer	UVR600APK	INT
Series G EG, JG, & LG Frame Undervoltage Release 24VDC	Eaton / Cutler Hammer	UVR024DPK	INT
Series G EG, JG, & LG Frame Undervoltage Release 48-	Eaton / Cutler Hammer	UVR048DPK	INT

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2: SUBCOMPONENTS

DESCRIPTION	MANUFACTURER	PART #	BASIS
60VDC			
Series G EG, JG, & LG Frame Undervoltage Release 120VDC	Eaton / Cutler Hammer	UVR125DPK	INT
Series G EG, JG, & LG Frame Undervoltage Release 220-250VDC	Eaton / Cutler Hammer	UVR250DPK	INT
VL FG, JG, LG Frame 3 Auxiliary Switch Mounting Base	Siemens	AMBL1	UUT4
VL FG, JG, LG Frame 2 Aux & 1 Alarm Switch Mounting Base Left	Siemens	AMBL2	UUT1
VL FG, JG, LG Frame 2 Aux & 1 Alarm Switch Mounting Base Right	Siemens	AMBL3	INT
VL MG Frame 4 Auxiliary Switch Mounting Base	Siemens	AMBP1	INT
VL MG Frame 2 Aux & 2 Alarm Switch Mounting Base Left	Siemens	AMBP2	INT
VL FG, JG, LG, MG Frame Auxiliary & Alarm Switch 1A NO Contact	Siemens	ASWPA	UUT1, UUT4
VL FG, JG, LG, MG Frame Auxiliary & Alarm Switch 1B NC Contact	Siemens	ASWPB	UUT1, UUT4
VL FG, JG, LG Frame Shunt Trip 48-60VAC	Siemens	STRLM60	INT
VL FG, JG, LG Frame Shunt Trip 110-127VAC	Siemens	STRLN120	INT
VL FG, JG, LG Frame Shunt Trip 208-277VAC	Siemens	STRLS277	INT
VL FG, JG, LG Frame Shunt Trip 380-600VAC	Siemens	STRLV600	INT
VL FG, JG, LG Frame Shunt Trip 24VDC	Siemens	STRLB24DC	UUT4
VL FG, JG, LG Frame Shunt Trip 48-60VDC	Siemens	STRLC60DC	INT
VL FG, JG, LG Frame Shunt Trip 110-127VDC	Siemens	STRLD125DC	INT
VL FG, JG, LG Frame Shunt Trip 220-250VDC	Siemens	STRLE250DC	INT
VL FG, JG, LG Frame Undervoltage Release 24VAC	Siemens	UVRL24	INT
VL FG, JG, LG Frame Undervoltage Release 110-127VAC	Siemens	UVRLN120	INT
VL FG, JG, LG Frame Undervoltage Release 208VAC	Siemens	UVRLP208	INT
VL FG, JG, LG Frame Undervoltage Release 220-240VAC	Siemens	UVRLR240	INT
VL FG, JG, LG Frame Undervoltage Release 277VAC	Siemens	UVRLS277	INT
VL FG, JG, LG Frame Undervoltage Release 380-415VAC	Siemens	UVRLT415	INT
VL FG, JG, LG Frame Undervoltage Release 440-480VAC	Siemens	UVRLU480	INT
VL FG, JG, LG Frame Undervoltage Release 12VDC	Siemens	UVRLA12DC	INT
VL FG, JG, LG Frame Undervoltage Release 24VDC	Siemens	UVRLB24DC	UUT1
VL FG, JG, LG Frame Undervoltage Release 48VDC	Siemens	UVRLC48DC	INT
VL FG, JG, LG Frame Undervoltage Release 60VDC	Siemens	UVRLG60DC	INT
VL FG, JG, LG Frame Undervoltage Release 110-127VDC	Siemens	UVRLD125DC	INT
VL FG, JG, LG Frame Undervoltage Release 220-250VDC	Siemens	UVRLE250DC	INT
VL MG Frame Shunt Trip 48-60VAC	Siemens	STRPM60	INT
VL MG Frame Shunt Trip 110-127VAC	Siemens	STRPN120	INT
VL MG Frame Shunt Trip 208-277VAC	Siemens	STRPS277	INT
VL MG Frame Shunt Trip 380-600VAC	Siemens	STRPV600	INT
VL MG Frame Shunt Trip 24VDC	Siemens	STRPB24DC	INT
VL MG Frame Shunt Trip 48-60VDC	Siemens	STRPC60DC	INT
VL MG Frame Shunt Trip 110-127VDC	Siemens	STRPD125DC	INT
VL MG Frame Shunt Trip 220-250VDC	Siemens	STRPE250DC	INT
VL MG Frame Undervoltage Release 110-127VAC	Siemens	UVRPN120	INT
VL MG Frame Undervoltage Release 208VAC	Siemens	UVRPP208	INT
VL MG Frame Undervoltage Release 220-240VAC	Siemens	UVRPR240	INT
VL MG Frame Undervoltage Release 277VAC	Siemens	UVRPS277	INT
VL MG Frame Undervoltage Release 380-415VAC	Siemens	UVRPT415	INT
VL MG Frame Undervoltage Release 440-480VAC	Siemens	UVRPU480	INT
VL MG Frame Undervoltage Release 12VDC	Siemens	UVRPA12DC	INT
VL MG Frame Undervoltage Release 24VDC	Siemens	UVRPB24DC	INT
VL MG Frame Undervoltage Release 48VDC	Siemens	UVRPC48DC	INT
VL MG Frame Undervoltage Release 60VDC	Siemens	UVRPG60DC	INT
VL MG Frame Undervoltage Release 110-127VDC	Siemens	UVRPD125DC	INT
VL MG Frame Undervoltage Release 220-250VDC	Siemens	UVRPE250DC	INT

Notes

1. BASIS:

- UUT#: Indicates that a test specimen matching these characteristics was tested.
- INT (Interpolate or Extrapolate): indicates a model that was not specifically tested and by which seismic qualification was established through evaluation of testing of other, similar models in the product line.

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

FIGURE1: MODEL NUMBER CODING

5	5	C	1	E	5	4	0	-	D	4	8	0	1	E	6	0	0	1	1	H	H	1	Q	B	T	F	- Example
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	- Character Position

Character	Parameter	Allowed Value	Description
1-2	Enclosure Type	39	BC39 Battery Cabinet
		43	BC43 Battery Cabinet
		55	BC55 Battery Cabinet
		U4	UBC40 Battery Cabinet
		U6	UBC64 Battery Cabinet
		U7	UBC75 Battery Cabinet
		P7	UBC77 Battery Cabinet
3	Customer Code	#	Identifier for the buying customer. Any character accepted
4	String Quantity	1 to # of Batt.	The number of strings inside a single battery cabinet. Not more than total # batteries
5	Battery Manufacturer	E	Enersys
		U	Deka
		G	GNB Industrial Power
6-8	Battery Model Number		Code meaning changes based on battery manufacturer & series
	Enersys HX Series:	205	12HX205
		300	12HX300
		330	12HX330
		505	12HX400
		505	12HX505
		540	12HX540
	Deka HR Series:	150	U1HR1500
		200	45HR2000
		300	24HR3000
		H30	HR3000
		350	27HR3500
		H35	HR3500
		400	31HR4000
		H40	HR4000
		500	31HR5000
		H55	HR5500
		Deka HR Front Access Series:	F35
	F55		HR5500ET
	F75		HR7500ET
	Deka AVR Front Access Series:	10F	12AVR100ET
		15F	12AVR150ET
	GNB Sprinter Series:	120	S12V120F
		170	S12V170F
		285	S12V285F
		300	S12V300F
		370	S12V370F
500		S12V500F	
9	Battery Supplier/Installer	-	Batteries supplied & Installed by C&C Power
		X	Batteries supplied by others & Installed by C&C Power
		Z	Batteries supplied by C&C Power & Installed onsite by others
10	Lug Size	C	#10 or M5 Bolt
		D	1/4" or M6 Bolt
		E	5/16" or M8
11-13	Bus Voltage	012 - 480	Bus Voltage
14	Breaker Quantity	1 to # of Strings	Number of breakers inside a single battery cabinet. Typically 1 per cabinet but multiple may be used if there are multiple smaller strings inside a single battery cabinet.
15	Breaker Type	E	Cutler-Hammer Series C
		S	Siemens VL Series
16-18	Breaker Amperage	030 to 800	Breaker amperage between 30A & 800A
19	Auxiliary Contacts for Breaker	0	NONE
		1	Single Aux Contacts
		2	Dual Aux Contacts
20	Bell Alarm for Breaker	0	NONE
		1	Single Bell Alarm


Table continues next page


ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

FIGURE1: MODEL NUMBER CODING (continued)


Character	Parameter	Allowed Value	Description
21	Under Voltage Relay or Shunt Trip for Breakers	A	NONE
		B	120VAC UV Trip
		C	208VAC UV Trip
		D	208VAC UV Trip
		E	277VAC UV Trip
		F	480VAC UV Trip
		G	600VAC UV Trip
		H	24VDC UV Trip
		J	48VDC UV Trip
		K	125VDC UV Trip
		L	250VDC UV Trip
		M	24VAC Shunt Trip
		N	48VAC Shunt Trip
		P	120VAC Shunt Trip
		Q	208VAC Shunt Trip
		R	240VAC Shunt Trip
		S	277VAC Shunt Trip
		T	480VAC Shunt Trip
		U	600VAC Shunt Trip
		V	12VDC Shunt Trip
W	24VDC Shunt Trip		
X	48VDC Shunt Trip		
Y	125VDC Shunt Trip		
Z	250VDC Shunt Trip		
22	Certification Code	H	OSHPD / Listed to UL1778
		J	OSHPD & IFC compliance / Listed to UL1778
23	Cabinet Quantity	1 to 9	Number of cabinets in a multi-cabinet system. Cabinets remain physically discreet.
24-25	Color Code	##	Identifies the color the enclosure is painted. All values allowed. For Example:
		BT	Black Texture
		CY	CY Gray
		LG	Medium Gray
		MG	Antique White Sand
		MW	Gray Sand
		SW	Stairmaster White
		QB	Quality Beige
26-27	Custom Configuration Code		This field is to be left blank unless the following option is required:
		TF	Toshiba Fused 24VDC Shunt Trip for 4200FA UPS


ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-1 BC43 Battery Cabinet									
MANUFACTURER:					C & C Power				
IDENTIFICATION:									
Test Model No. 43T1E505-D3601B30010WH1QBTF New Model No. 43T1E505-D3601S30010WH1QBTF Note: Subsequent to testing C&C Power modified their model number coding. "Test Model No." indicates the model number recorded during testing. "New Model No." indicates the equivalent model number under the new coding. This note is typical for all subsequent test specimens. S/N 99030726									
DESCRIPTION:					Enclosure: 10 ga. cold-formed carbon steel enclosure. Batteries: The unit tested was configured with a quantity of 30 Energys HX505 119 AH/12V batteries each weighing 103 lbs. The batteries were arranged in two rows of four batteries per row on each of the three lower shelves. The top shelf was loaded with two rows of three batteries each. Breaker: Siemens NJG3B300L NJ 300A with 24VDC Shunt Trip & Aux accessories				
MOUNTING:					Floor mounted w/ (4) - 3/4" dia. Grade 8 bolts				
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			F/B	S/S	Vert.		
36	29.5	78.5		3630	7.5	5	50+		
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS}	z/h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2013	ICC-ES AC156-07	1.93	1.0	1.5	3.09	2.32	1.29	0.52	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									

UUT- 2 BC55 Battery Cabinet									
MANUFACTURER:					C & C Power				
IDENTIFICATION:									
Test Model No. 55M1XXXXXD4801S40000AH1QB New Model No. 55M1E540-D4801S40011HH1QB 55M1U500-D4801S40011HH1QB 55M1G500-D4801S40011HH1QB S/N: 99032273									
DESCRIPTION:					Enclosure: 10 ga. cold-formed carbon steel enclosure Batteries: The unit tested was configured with a quantity of 40 batteries each weighing approximately 105 lbs. Each of the 4 shelves included 10 batteries: • (4) – Exide GNB Sprinter Series, 500W/12V batteries • (4) – DEKA EAST Penn HR5000, 500W/12V batteries • (2) – Energys HX540, 540W/12V batteries Breaker: Siemens NJG3B400L 400A, 600VDC, 3 Pole, Thermal Magnetic Trip				
MOUNTING:					Floor mounted w/ (6) - 3/4" dia. Grade 8 bolts				
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			F/B	S/S	Vert.		
40	29.5	78.7		5300	6.3	5.0	11.7		
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS}	z/h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2013	ICC-ES AC156-07	2.00	1.0	1.5	3.20	2.40	1.34	0.54	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									

ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-3 UBC64 Battery Cabinet									
MANUFACTURER: C & C Power									
IDENTIFICATION: Test Model No. U6C1XXXXD4801E60000AH1MG New Model No. U6C1UF55-D4801E60011HH1MG U6C1U15F-D4801E60011HH1MG									
S/N: 99032274									
DESCRIPTION: <u>Enclosure:</u> 10 ga. cold-formed carbon steel <u>Batteries:</u> The unit tested was configured with a quantity of 40 batteries. Each of the 5 shelves included 8 batteries : • (7) – DEKA UNIGY 12AVR-150ET, 150AH/12V • (1) – DEKA UNIGY HR5500ET, 550W/12V, <u>Breaker:</u> Cutler-Hammer HLDDC3600F 450-600A, 600VDC, 3 Pole, Thermal Magnetic Trip									
MOUNTING: Floor mounted w/ (6) - 3/4" dia. Grade 8 bolts									
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			F/B	S/S	Vert.		
46.5	31.5	82		5500	5.5	10.1	28.2		
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS}	z/h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2013	ICC-ES AC156-07	2.00	1.0	1.5	3.20	2.40	1.34	0.54	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									

UUT-4 UBC75 Battery Cabinet									
MANUFACTURER: C & C Power									
IDENTIFICATION: Test Model No. U7C1XXXXD4801E80000AH1BT New Model No. U7C1UF75-D4801E80011HH1BT									
S/N: 99032275									
DESCRIPTION: <u>Enclosure:</u> 10 ga. cold-formed carbon steel <u>Batteries:</u> The unit tested was configured with a quantity of 40 batteries each weighing approximately 150 lbs. Each of the 5 shelves included 8 batteries : • (8) – DEKA EAST PENN HR7500ET 750AW/12V <u>Breaker:</u> Cutler-Hammer HMDLDC3800F 700-800A, 600VDC, 3 Pole, Thermal Magnetic Trip									
MOUNTING: Floor mounted w/ (8) - 3/4" dia. Grade 8 bolts									
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			F/B	S/S	Vert.		
48.5	33.56	84		7150	13.1	7.5	23.5		
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S _{DS}	z/h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2013	ICC-ES AC156-07	2.00	1.0	1.5	3.20	2.40	1.34	0.54	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									