



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0779

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Bevco Engineering Company, Inc.

Manufacturer's Technical Representative: Bruce Gallitz

Mailing Address: W222 N5739 Miller Way, Sussex, WI 530893988

Telephone: (262) 820-2400

Email: bgallitz@bevcoengineering.com

Product Information

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

Product Model Number(s): See Attachment

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

Product Sub-Category: Medical System Control Panels

General Description: Integrated Electrical Cabinet with optional UPS. Provides a single point power connection between the facility power and imaging systems.

Mounting Description: Wall Mounted Rigid

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: DCL Labs, LLC

Contact Person: Nastya Veyngerova

Mailing Address: 1315 Greg Street, Suite 109, Sparks, NV 89431

Telephone: (775) 358-5085

Email: nastya.veyngerova@shaketest.com

Title: Seismic Test Engineer



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

Company Name: THE VMC GROUP

Name: Kenneth Tarlow California License Number: S2851

Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814

Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com

Certification Method

☐ GR-63-Core ☒ ICC-ES AC156 ☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3
☐ Other (Please Specify): _____

Testing Laboratory

Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)

Contact Person: Josh Sailer

Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431

Telephone: (775) 358-5085 Email: josh@shaketest.com

BY: Timothy J. Piland

DATE: 09/24/2025



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Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal (A Flx-H), $g =$ 3.20 (A Rig-H), $g =$ 3.00

Vertical (A Flx-V), $g =$ 1.67 (A Rig-V), $g =$ 0.67

SDS (Design spectral response acceleration at short period, g) = 2.50@z/h = 1.0; 2.50@z/h=0

H_f (Force amplification height factor) = 1 @ z/h=0; 3.5 @ z/h=1

R_u (Structure ductility reduction factor) = 1 @ z/h=0; 1.3 @ z/h=1

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

HCAI Approval (For Office Use Only) - Approval Expires on 09/24/2031

Date: 9/24/2025

Name: Timothy Piland

Title: Senior Structural Engineer

Condition of Approval (if applicable): _____

OSP-0779

BY: Timothy J. Piland

DATE: 09/24/2025

Special Seismic Certification

Table 1 - Certified Components



DCL Project Number: 51772-2501

Manufacturer: Bevco Engineering Company, Inc.

Product Line: IECMI Panel with UPS Bracket

Mounting: Rigid Wall Mount

Certified Seismic Levels: Sds = 2.50g, z/h=1.0; Sds = 2.50g, z/h=0.0

Model Number ¹	Description	Manufacturer	Max. Dimensions [in.]			Max. Weight [lb.]	Unit
			Depth	Width	Height		
IECMI240V030ALL	IECMI Panel with UPS Bracket	Bevco Engineering	10.0	32.0	48.8	300 ²	UUT-03
IECMI480V150Axx	IECMI Panel with UPS Bracket	Bevco Engineering	10.0	32.0	72.8	450	Interpolated
IECMI480V150ALL	IECMI Panel with UPS Bracket	Bevco Engineering	10.0	32.0	72.8	450	UUT-01, UUT-02

Note:

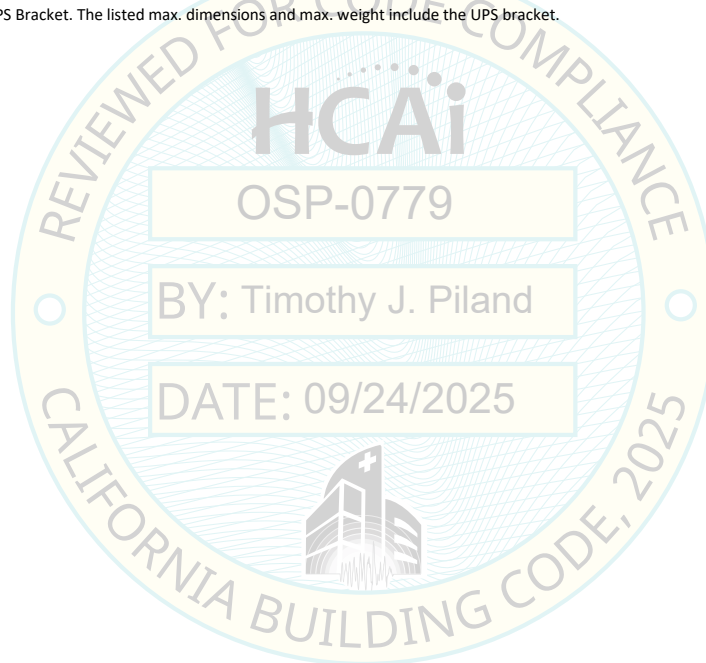
1. The xx in the model number is as follows:

IECMI480V150AEU is the tested design minus Transformer 1.5KVA;

IECMI480V150AUS is the tested design minus the Measuring Current Transformer and the Residual Current Monitor;

IECMI480V150ARW is the tested design minus the Measuring Current Transformer, the Residual Current Monitor and Transformer 1.5KVA

2. UUT-03 was tested without the UPS Bracket. The listed max. dimensions and max. weight include the UPS bracket.



Special Seismic Certification

Table 2 - Certified Subcomponents



DCL Project Number: 51772-2501

Product Line: IECMI Panel with UPS Bracket

Model Number	Description	Manufacturer	Material	Weight [lb.]	Unit
Enclosures					
SD-1183	Enclosure 24X32X8.93	Hoffman	14 GA Mild Carbon Steel, NEMA 1	78	UUT-03
SD-819	Enclosure 48X32X8.93			110	UUT-01, UUT-02
UPS Bracket					
SD-818	UPS Bracket	Bevco	11 GA Mild Carbon Steel, NEMA 1	78.5	UUT-01, UUT-02
Power Supplies					
6EP1334-2BA20	Power Supply	Pulse	Plastic, Copper and Aluminum	<1	UUT-03
ML15.241	Power Supply 24VDC 0.63A			<1	UUT-01, UUT-02
6EP13333BA10	Power Supply	Siemens	Plastic, Copper and Aluminum	1	UUT-01, UUT-02
9PX6K	UPS Power Supply	Eaton	Plastic, Carbon Steel, Lead Acid Battery 12V	106	UUT-01, UUT-02
Transformers					
EQBQK000063-1	Transformer 500VA	Hammond	Mild Steel, Aluminum, Copper	11	UUT-01, UUT-02
Q1C5DTCF	Transformer 1.5KVA			42	UUT-01, UUT-02
Circuit Breakers					
5SY41117	Circuit Breaker	Siemens	Plastic	<1	UUT-01, UUT-02
3VA51301MU310AA			Plastic, Copper and Aluminum	2	UUT-01, UUT-02
3VA61155HL310AA				5	UUT-01, UUT-02
3VA61155HL410AA				7	UUT-01, UUT-02
EP102ULC30	Circuit Breaker 30A 2P	General Electric	Plastic	1	UUT-01, UUT-02
DMA100C06/030	RCB Circuit Breaker			1	UUT-01, UUT-02
ST201M-K3	Circuit Breaker, 1P, 3A	ABB	Plastic, Copper and Aluminum	<1	UUT-03
ST202M-K10	Circuit Breaker, 2P, 10A			<1	UUT-03
XT1NU3030AFF000XXX	Circuit Breaker, 3P, 30A			3	UUT-03
Contactors					
3SU15000AA100AA	Power Contactor	Siemens	Plastic	<1	UUT-01, UUT-02
3RT20172VB42	Contactor, 3Pole with Diode			1	UUT-01, UUT-02
3RT20152BB41	Contactor 3P			1	UUT-01, UUT-02
3RT10566AR36	Contactor (busbar control)		Plastic, Copper and Aluminum	7	UUT-01, UUT-02
AF26-30-11-11	Contactor, 3P	ABB	Plastic, Copper and Aluminum	1	UUT-03
Fuse Blocks					
CHCC1DU	Fuse Block 30A 1P CLASS CC	Bussmann	Plastic	<1	UUT-01, UUT-02
CHCC2DU	Fuse Block 30A 2P 600V			<1	UUT-01, UUT-02, UUT-03
CHCC3DU	Fuse Block 3P 600V 30A			<1	UUT-01, UUT-02
Miscellaneous					
KXTAAUX	AUX Switch	ABB	Plastic	<1	UUT-03
OH865J10B	Handle			<1	UUT-03
CR-S024VADC1CRS	Interface Relay			<1	UUT-03
KXTBRHDSTFP	Rotary Mechanism			<1	UUT-03
KXTASORB	Shunt Trip			<1	UUT-03
F202A-40/0.03	RCCB, 2P, 40A		Plastic, Copper and Aluminum	<1	UUT-03
3VA99780AA13	AUX Switch Type/HQ_EL	Siemens	Plastic	<1	UUT-01, UUT-02
3SU19000DY300AA	Latching Block			<1	UUT-01, UUT-02
3SU14001AA101CA	Timing Relay			<1	UUT-01, UUT-02
ADR11	Ground Lug #14-1/0	Thomas and Betts	Aluminum and Copper	<1	UUT-03
ADR35-21	Ground Lug (3) #4-500 MCM			<1	UUT-01, UUT-02
DS72US-230S/G	Surge Arrester	CITEL	Plastic	<1	UUT-03
2697280000	Timing Relay	Weidmueller	Plastic	<1	UUT-03
RCMA423D1	Residual Current Monitor	Bender	Plastic	<1	UUT-01, UUT-02
W60AB	Measuring Current Transformer			1	UUT-01, UUT-02
WX100	Cable Bender		Copper	1	UUT-01, UUT-02
DOCA232/030	Add-on RCD 2P	General Electric	Plastic	1	UUT-01, UUT-02
2910379	Arrester, Lightning/Surge	Phoenix Contact	Plastic	1	UUT-01, UUT-02
EKI-2525-BE	Switch, Ethernet 12-48VDC	AdvanTech	Plastic	1	UUT-01, UUT-02, UUT-03
N250X	Neutral Block	Siemens	Aluminum and Copper	2	UUT-01, UUT-02

Special Seismic Certification

Table 3 - Tested Units



DCL Project Number: 51772-2501

Manufacturer: Bevco Engineering Company, Inc.

Product Line: IECMI Panel with UPS Bracket

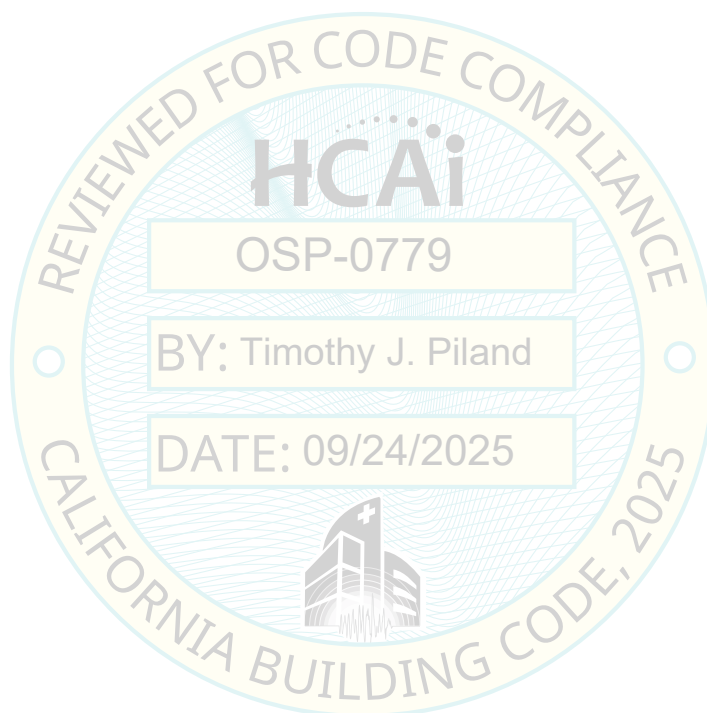
Mounting: Rigid Wall Mount

Certified Seismic Levels: Sds = 2.50g, z/h=1.0; Sds = 2.50g, z/h=0.0

Model Number	Description	Dimensions [in.]*			Operating Weight [lb.]	DCL Test Report	Unit
		Length	Width	Height			
IECMI240V030ALL	IECMI Panel with UPS Bracket	9.8	32.0	24.0	103*	51772-2501	UUT-03
IECMI480V150ALL	IECMI Panel with UPS Bracket	10.0	32.0	72.8	450	89168-1901	UUT-01
							UUT-02

Note:

* UUT-03 was tested without the UPS Bracket. The listed weight and dimensions exclude the UPS bracket.



UNIT UNDER TEST (UUT) Summary Sheet



UUT-01 and UUT-02

DCL Repot Number: 89168-1901

Manufacturer: Bevco Engineering Company, Inc.

Product Line: IECMI Panel with UPS Bracket

Model Number: IECMI480V150ALL

Product Construction Summary: Powder coated carbon steel enclosure

Options / Component Summary: Enclosure, UPS bracket, power supplies, transformers, circuit breakers, contactors, fuse blocks

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
450	10.0	32.0	72.8	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	H _r	R _μ	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2025	ICC-ES AC156	2.5	1.0	3.5	1.3	1.5	3.20	3.00	N/A	N/A
		2.5	0.0	1.0	1.0		N/A	N/A	1.67	0.67

Unit Mounting Description: UUT-01 and UUT-02 were identical units made by Bevco Engineering Company, Inc. The UUTs were mounted directly to the DCL wall frame fixture using (8) 3/8" Grade 5 bolts, 3"x3"x1/4" galvanized carbon steel square washers, 3/8" channel nuts, and 3/8" round washers to simulate a wall mounted installation. The UUTs were mounted to the side of the DCL wall frame fixture using the manufacturer's bolt-hole locations on the cabinet frame. The bolts on the IECMI panel were spaced 14.5" width-wise and 46" height-wise, while the two bolts used to mount the UPS bracket to the wall fixture were spaced 29" width-wise and spaced 23" from the bottom of the IECMI panel. The UPS Brackets were mounted to the bottom of the IECMI Panel using (4) 3/8" diameter by 1" long bolts, (4) 3/8" hex nuts, (4) 3/8" lock washers, and (4) 3/8" flat washers. All hardware is Grade 5. The bolts were spaced 29" width-wise and 2.5" depth-wise.



Overall view of UUT-01 (left) and UUT-02 (right).

UNIT UNDER TEST (UUT) Summary Sheet



UUT-03

DCL Repot Number: 51772-2501

Manufacturer: Bevco Engineering Company, Inc.

Product Line: IECMI Panel with UPS Bracket

Model Number: IECMI240V030ALL

Product Construction Summary: Powder coated carbon steel enclosure

Options / Component Summary: Enclosure, power supplies, circuit breakers, contactors

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (inches)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
103	32.0	9.8	24.0	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	H _r	R _μ	I _p	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2025	ICC-ES AC156	2.5	1.0	3.5	1.3	1.5	3.20	3.00	N/A	N/A
		2.5	0.0	1.0	1.0		N/A	N/A	1.67	0.67

Unit Mounting Description: UUT-03 was wall mounted to the DCL wall fixture using (6) 3/8" Grade 5 bolts, flat washers, 1.6" x 1.6" x 0.3" carbon steel plate washers, and channel nuts. The bolts were spaced approximately 14.5" apart width-wise measured on-center and 22.5" apart height-wise measured on-center.



Overall view of UUT-03.