



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-0626

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Intelligent Power Solutions

Manufacturer's Technical Representative: Rob Inman

Mailing Address: 741 N. Main Street, Orange, CA 92868

Telephone: (714) 769-8522

Email: rob@intelligentpowersolutions.com

Product Information

Product Name: Intelligent Power Solutions Maintenance Bypass Cabinet

Product Model Number(s): See attached

Product Category: Emergency and Standby Power Systems

Product Sub-Category: Automatic Transfer Switches

General Description: The Maintenance Bypass Cabinet is composed of the following: Breaker / Contactor, Breaking Resistors, Fans, Control Transformer, Electrical Components, Kirk Locks, and the Enclosure.

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: DCL Labs, LLC

Contact Person: Kelly Laplace

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

Telephone: (775) 358-5085

Email: kelly.laplace@thevmcgroup.com

Title: Vice President of Sales: Test and Measurement Division



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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

*"A healthier California where all receive equitable, affordable, and quality health care"*

**STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY**

05/01/2025

OSP-0626

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**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.44

SDS (Design spectral response acceleration at short period, g) = 2.00

$a_p$  (Amplification factor) = 1.0

$R_p$  (Response modification factor) = 2.5

$\Omega_0$  (System overstrength factor) = 2.0

$I_p$  (Importance factor) = 1.5

$z/h$  (Height ratio factor) = 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

**HCAI Approval (For Office Use Only) - Approval Expires on 05/01/2031**

Date: 5/1/2025

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.0

$z/h$  = 1

Condition of Approval (if applicable):

## Special Seismic Certification

### Table 1 - Certified Components

DCL Project Number: 47830-2501

Product Line: Maintenance Bypass Cabinet

Mounting Configuration: Rigid Base Mount

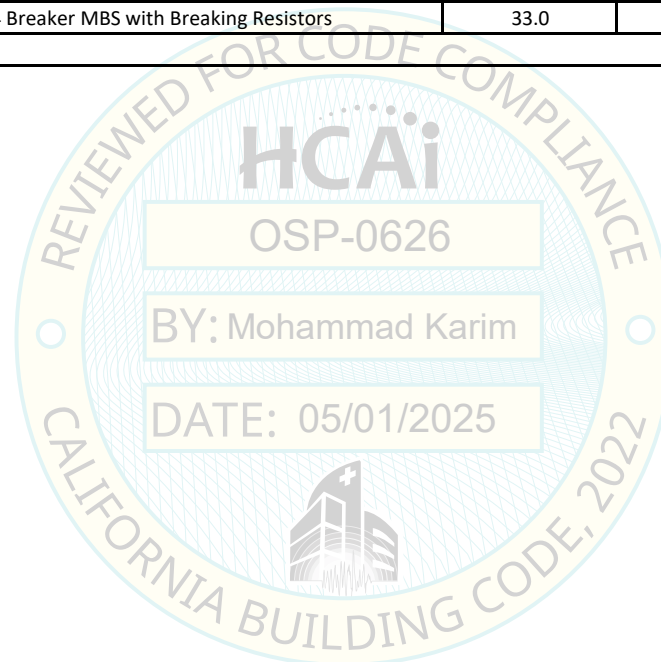
Certification Level:  $S_{DS} = 2.00g$ ,  $z/h=1.0$

Manufacturer: Intelligent Power Solutions (by Systemes de Support Informatique)



Model Number	Description	Max. Dimensions (in)			Weight (lb)	Unit
		Depth	Width	Height		
UP-2-125-3G6G-DE-MAN-R-O	4 Breaker MBS with Breaking Resistors	33.0	33.0	79.0	600	UUT 1

Note: Unit manufacturing process is ISO 9001 certified.



## Special Seismic Certification



### Table 2 - Certified Subcomponents

DCL Project Number: 47830-2501

Product Line: Maintenance Bypass Cabinet

Mounting Configuration: Rigid Base Mount

Certification Level:  $S_{DS} = 2.00g$ ,  $z/h=1.0$

Manufacturer: Intelligent Power Solutions (by Systemes de Support Informatique)

Subcomponent	Manufacturer Name	Model Number	Description	Material	Weight (lb)	Unit
Breaker / Contactor	ABB	AF09-30-10-13	Breaking Resistor Contactor	Molded insulating cases made of synthetic resins reinforced with glass fibers; anti-corrosion treatment of the main metallic parts	1	UUT 1
		XT1	Molded case circuit breakers 15A Circuit Breaker		1	UUT 1
		XT3	Molded case circuit breakers 200A Circuit Breaker		14	UUT 1
Breaking Resistor Assembly	Transfab	10.5kW, 480VAC 3 phase	Resistor structure	16 gage galvanized steel painted ANSI 61 gray	73	UUT 1
		54105	Resistor body	Cordierite		UUT 1
Fans	ebm-papst	W2E200-HH86-01	120VAC, (2) 603 CFM axial fans	Die cast aluminum structure, copper motor windings, bearings, propeller	12	UUT 1
Control Transformer	Transfab	EXA025036	250VA control transformer 480V to 120V	Magnetic steel, copper conductors, steel base	7	UUT 1
Electrical Components	ABB	E91/30sCC / E92/30sCC	Fuse holders 1P / 2P	Plastic insulation, copper	<1	UUT 1
		NF22E-14	Power control relay		<1	UUT 1
		CR-M120AC2L	Buzzer control relay		<1	UUT 1
		CT-AHD,12	OFF-DELAY control relay		<1	UUT 1
		CP3-12R-10	Push buttons		<1	UUT 1
		CB1-621B	Buzzer		<1	UUT 1
	Mersen	MPDB67251 / MPDBC6667	Terminal blocks		<1	UUT 1
	WAGO	2002-1201	Terminals		<1	UUT 1
	ITC	111.013	Din rail	Carbon steel	<1	UUT 1
	Edison	HCTR1 / HCTR2	Fuses	Conductor, insulation	<1	UUT 1
	Anixter	1284-2/0/1330-0	Insulated copper conductors TEW 105°C	Plastic insulation, copper	1	UUT 1
Kirk Locks	Kirk Key Interlock Company	KFL015010S-A2	Locking device for a sequence	Brass, steel	<1	UUT 1
Enclosure	SSI	SSI-00133-1901	Maintenance bypass cabinet for 125kVA UPS with breaking resistors	Carbon steel	467	UUT 1

## Special Seismic Certification

### Table 3 - Tested Units

DCL Project Number: 47830-2501

Product Line: Maintenance Bypass Cabinet

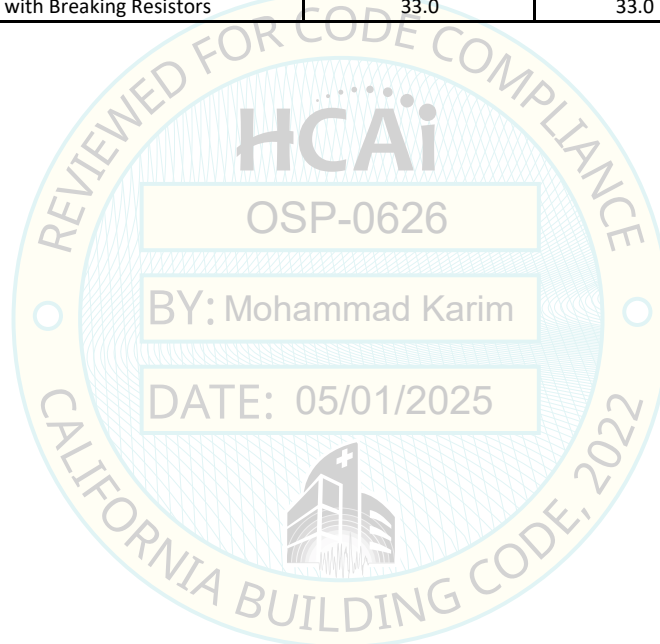
Mounting Configuration: Rigid Base Mount

Certification Level:  $S_{DS} = 2.00g$ ,  $z/h=1.0$

Manufacturer: Intelligent Power Solutions (by Systemes de Support Informatique)



Model Number	Description	Max. Dimensions (in)			Weight (lb)	Unit
		Depth	Width	Height		
UP-2-125-3G6G-DE-MAN-R-O	4 Breaker MBS with Breaking Resistors	33.0	33.0	79.0	600	UUT 1





## UUT 1



### Unit Under Test (UUT) Summary Sheet

**DCL Test Report Number:** 14880-1901

**Manufacturer:** Intelligent Power Solutions (by Systemes de Support Informatique)

**Product Line:** Maintenance Bypass Cabinet

**Model Number:** UP-2-125-3G6G-DE-MAN-R-O

**Mounting:** Rigid Base Mount

**Product Construction Summary:** Powder Coated Carbon Steel

**Options / Component Summary:** Breaker/contactors, breaking resistor, fans, control transformer, electrical components, kirk locks, and enclosure.

**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 (in)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
600	33.0	33.0	79.0	15.0	26.5	>33.3

#### Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.33	0.53

**Unit Mounting Description:** UUT 1 was rigid base mounted to the DCL table interface plate with (4) ½" grade 8 bolts, lock washers, and flat washers. The bolts were spaced 30" widthwise on center and 27.5" lengthwise on center. The DCL table interface plate was bolted directly to the shake table.



Overall View of UUT 1