APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP - 0626
OSHPD 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 Type: Maintenance Bypass Cabinet OSP-0626
Product Model Number: See attached (List all unique product identification numbers and/or part numbers) am Staen in
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: Rigid Base Mount
Applicant Information Applicant Company Name: The VMC Group
Applicant Company Name: The VMC Group
Contact Person: John Giuliano
Mailing Address: 113 Main Street, Bloomingdale, NJ 07403
Telephone: (973) 838-1780 Email: john.giuliano@thevmcgroup.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: Date:
Title: President Company Name: The VMC Group
OCUDE

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

14/AMM

OSHPD

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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)							
Company Name: The VMC Group							
Name: Kenneth Tarlow California License Number: S-2851							
Mailing Address: _113 Main Street, Bloomingdale, NJ 07403							
Telephone: (973) 838-1780 Email: ken.tarlow@thevmcgroup.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							
 ☐ Other (Please Specify): 							
OSP-0626							
/ ////////////////////////////////////							
Testing Laboratory BY: William Staehlin							
Company Name: DCL Labs DATE: 05/10/2021							
Contact Name: Josh Sailer, Laboratory Manager							
Mailing Address: 1315 Greg Street, Suite 109, Sparks, NV 89431							
Telephone: (775) 358-5085 Email: (josh@shaketest.com							





05/10/2021



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes ☐ No
Design Basis of Equipment or Components (F _p /W _p) = 1.44
S _{DS} (Design spectral response acceleration at short period, g) = 2.00
a _p (In-structure equipment or component amplification factor) = 1.0
R _p (Equipment or component response modification factor) =2.5
Ω_0 (System overstrength factor) =2.0
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = 1
Equipment or Component Natural Frequencies (Hz) = See attachment
Overall dimensions and weight (or range thereof) = See attachment
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) = $\frac{1}{2}$ William Staehlin
C _d (Deflection amplification factor) =
I_P (Importance factor) = 1.5 DATE: $05/10/2021$
Height to Center of Gravit <mark>y above</mark> base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: Yes No
List of Attachments Supporting Special Seismic Certification
☐ Test Report(s) ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog
Other(s) (Please Specify):
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Community 1 (pp. 100m. (co. 100m.) 1 (pp. 100m. 2 (pp. 100 m.) 1 (
Signature: Date: May 10, 2021
Print Name: William Staehlin Title: Senior Structural Engineer
Special Seismic Certification Valid Up to: $S_{DS}(g) = 2.00$ $z/h = 1$
Condition of Approval (if applicable):

OSP-0626

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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY





OSH-FD-759 (REV 12/16/15)

Table 1 - Certified Components

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	Measured	Unit	
Wiodel Number	Description	Depth	Width	Height	Weight (lb)	Oill
UP-2-125-3G6G-DE-MAN-R-O	4 Breaker MBS with Breaking Resistors	33.0	33.0	79.0	600.0	UUT 1

Note: Unit manufacturing process is ISO 9001 certified.



Table 2 - Certified Subcomponents

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	Measured Weight (lb)	Unit
	ABB	XT3	Molded case circuit breakers 200A Circuit Breaker	Molded insulating cases made of synthetic resins reinforced with glass fibers; anti-corrosion treatment of the main metallic parts	13.9	UUT 1
Breaker / Contactor	ABB	XT1	Molded case circuit breakers 15A Circuit Breaker	Molded insulating cases made of synthetic resins reinforced with glass fibers; anti-corrosion treatment of the main metallic parts	1.4	UUT 1
	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	1.0	UUT 1
Breaking Resistor	Transfab	10.5kW, 480VAC 3 phase	Resistor structure	16 gage galvanized steel painted ANSI 61 gray	73.0	UUT 1
Assembly	Hansiab	54105	Resistor body	Cordierite	73.0	UUT 1
Fans	ebm-papst	W2E200-HH86-01	120VAC, (2) 603 CFM axial fans	Die cast aluminium structure, copper motor windings, bearings, propeller	12.0	UUT 1
Control Transformer	Transfab	EXA025036	250VA control transformer 480V to 120V	Magnetic steel, copper conductors, steel base	7.1	UUT 1
	ABB	E91/30sCC / E92/30sCC	Fuse holders 1P / 2P	Plastic insulation, copper, etc	0.5	UUT 1
	ABB	NF22E-14	Power control relay	Plastic insulation, copper, etc	0.7	UUT 1
	ABB	CR-M120AC2L	Buzzer control relay	Plastic insulation, copper, etc	0.1	UUT 1
	ABB	CT-AHD,12	OFF-DELAY control relay	Plastic insulation, copper, etc	0.1	UUT 1
	ABB	CP3-12R-10	Push buttons	Plastic insulation, copper, etc	0.0	UUT 1
lectrical Components	ABB	CB1-621B	Buzzer	Plastic insulation, copper, etc	0.0	UUT 1
	Mersen	MPDB67251 / MPDBC6667	BY: WITerminal blocks taen III	Plastic insulation, copper, etc	0.6	UUT 1
	WAGO	2002-1201	Terminals	Plastic insulation, copper, etc	0.7	UUT 1
	ITC	111.013	Din rail	Carbon steel	0.1	UUT 1
	Edison	HCTR1 / HCTR2	MIDATE - 05 Fuses / 2021	Conductor, insulation	0.1	UUT 1
	Anixter	1284-2/0/1330-0	Insulated copper conductors TEW 105°C	Plastic insulation, copper, etc	1.0	UUT 1
Kirk Locks	Kirk Key Interlock Company	KFL015010S-A2	Locking device for a sequence	Brass and steel	0.5	UUT 1
Enclosure	SSI	SSI-00133-1901	Maintenance bypass cabinet for 125kVA UPS with breaking resistors	Carbon steel	467.0	UUT 1

Table 3 - Tested Units

Mounting Configuration: Rigid Base Mount **Certification Level:** S_{DS} = 2.00g, z/h=1.0





Model Number	Description	Max. Dimensions (in)			Measured Weight	Unit	
Woder Number	Description	Depth	Width	Height	(lb)	Offic	
UP-2-125-3G6G-DE-MAN-R-O	4 Breaker MBS with Breaking Resistors	33.0	33.0	79.0	600.0	UUT 1	



UUT 1 Unit Under Test (UUT) Summary Sheet



Manufacturer:	telligent 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/Contactor, 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		Dimensions (inches)				Lowest Natural Frequency (Hz)			
(lb)	Length	Wid	th EOR	CODE	eight	Front-Back	Side-Side	Vertical	
600.0	33.0	33.0	O	79.0		15.0	26.5	>33.3	
Seismic Test Parameters									
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)	
CBC 2016	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.