

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP-0688 HCAI Special Seismic Certification Preapproval (OSP)** Type: New Renewal **Manufacturer Information** Manufacturer: Rolls-Royce Solutions America Inc. Manufacturer's Technical Representative: Ben Stratton Mailing Address: 100 Power Drive, Mankato, MN 56001 Telephone: (507) 625-7973 Email: Ben.Stratton@ps.rolls-royce.com **Product Information** Product Name: Emergency and Standby Power Systems Product Type: Generator Control Panels Product Model Number: XS00E560.00037, XS00E560.00036 General Description: Unit consists of industrial PC and complimentary input/output, remote modules, drive components, enabling it to operate as a complete system to display and control equipment. Mounting Description: Several - See UUT Sheets, Flexible wall mounted, rigid wall mounted & rigid base mounted (using manufacturer provided stand) Tested Seismic Enhancements: None **Applicant Information** Applicant Company Name: VMC Group Contact Person: John Giuliano Mailing Address: Main Street, Bloomingdale, NJ 07403



john.giuliano@thevmcgroup.com



Telephone: (973) 838-1780

Title: President

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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION 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: S2851
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Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com
Certification Method
☐ GR-63-Core
Other (Please Specify):
EOR CODE CO.
Testing Laboratory
Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)
Contact Person: Kelly Laplace
Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431
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DATE: 04/12/2022





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Design Basis of Equipment or Components (Fp/Wp) =	1.80 Rigid Mounted & 5.63 Flexible Wall Mounted

SDS (Design spectral response acceleration at short period, g) = 2.5

ap (Amplification factor) = 1.0 Rigid Mounted & 2.5 Flexible Wall Mounted

Rp (Response modification factor) = 2.5 Rigid Mounted & 2.0 Flexible Wall Mounted

 Ω_0 (System overstrength factor) = 2.0

Ip (Importance factor) = 1.5

z/h (Height ratio factor) =

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval	I (For Office	Use O	nly) -	Approval	Expires of	n 04/12/2028
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Date: 4/12/2022

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.5

Condition of Approval (if applicable):



z/h =



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Table 1- Certified Product Table

	Part		Dime	Dimensions [in]		Max.					
Model	Number	MFR	Height	Depth	Width	Weight [lb]	Mounting	S _{DS}	z/h	UUT	
Master	XS00E560.00037	Rolls- Royce	37	11	24	130	Rigid/Flexible Wall Mounted	2.5	1	Extrapolated	
Master Control Panel	XS00E560.00036	Solution	Solutions America	37	11	24	140	Rigid Wall Mounted	2.5	1	UUT1A
		Inc.	37	11	24	140	Flexible Wall Mounted	2.5	1	UUT1B	

Extrapolated unit is a de-populated option with same subcomponents inside, which were present on the tested UUT.



Table 2 - Enclosures

Part Number	MFR	Description		Oty	Dime	ensions	[in]	UUT	
Part Number	IVIEK	Description	[lb]	Qty	Height	Depth	Width	001	
X00E30900064	Rolls- Royce Solutions America Inc.	Enclosure Assembly, NEMA 1	89.87	1	37	11	24	UUT-1A, UUT-1B	

Table 3 - Controllers

Part Number	MFR	Description	Weight [lb]	Qty	UUT
X00E30900075	B&R	Control Panel	9.90	1	UUT-1A, UUT-1B

Table 4 - Switches / Modules, etc.

Part Number	MFR	Description	Weight [lb]	Qty	UUT
SUA86666	IDEC	Switch E-Stop Maintained 4 NC YE	0.176	1	
SUA105563	Mallory Sonalert	Alarm Buzzer 16-28VDC STD Panel	0.099	1	
X00E30900099	IDEC	Pushbutton Switch	0.506	18	
X52830900137	Phoenix	Industrial Phoenix Ethernet Switch	0.836	8	
SUA106429	Eaton	BY: Mohammad Karim 10A DIN Rail Mounted Circuit Breaker	0.308	2	
X52830900154	Eaton	6A DIN Rail Mounted Circuit Breaker	0.308	1	UUT-1A, UUT-1B
SUA105009	B&R	Bus Controller (BC) Module	0.264	1	
SUA105010	B&R	Bus Controller (BC) Module Base	0.220	2	
SUA105011	B&R	(BC) Power Module	0.092	1	
SUA105013	B&R	Digital Input Module	0.092	8	
SUA105015	B&R	Digital Input/Output Module Power	0.110	16	
SUA105012	B&R	16-PIN X20 Input Term Block	0.110	8	
X52830900155	B&R	Digital Output Module	0.092	8]
SUA105016	B&R	12-PIN X20 24VDC Term Block	0.110	11]
X52830900156	B&R	Expandable Power Module	0.092	2	
X52830900157	B&R	Expandable Power Module Base	0.110	2	
X52830900158	B&R	X20 Locking Plate, Left	0.022	1	
X52830900159	B&R	X20 Locking Plate, Right	0.022	1	
X52830900135	Phoenix	Trio Diode	1.144	1	
X52830900134	Phoenix	Power Supply Unit	2.640	1	
X52830900136	Phoenix	UPS	2.332	1	
X52830900104	Phoenix	Term Block, PT 4-Quattro	0.030	34	
X52830900163	Phoenix	Term Block, Quattro End Cover	0.004	2	
SUA93571	Phoenix	Term Block, Markers Blank	0.033	202	
X52830900133	Phoenix	Term Block, PE Quattro	0.033	3	
SUA93502 04/12/2022	Phoenix	Term Block, Jumper	0.198	4	Page 5 of 8

Table 4 - Switches / Modules, etc., Continued

Part Number	MFR	Description	Weight [lb]	Qty	UUT
SUA93505	Phoenix	Terminal Strip End Block	0.033	10	
SUA100392	Phoenix	Term Block, Strip Marker Label	0.003	4	
X52830900160	Phoenix	24VDC Relay	0.013	24	
X52830900161	Phoenix	Relay Base	0.070	24	
SUA106165	Phoenix	Continuous Plug-in Bridge for Relays	0.092	1	UUT-1A, UUT-1B
X52822500032	Phoenix	Relay Marker	0.006	24	001-1A, 001-1B
X52830900085	Phoenix	Term Block, ST 2.5-3L	0.040	55	
X52830900093	Phoenix	Marker Holder ST 2.5-3L	0.002	55	
X52830900088	Phoenix	Term Block, End Cover ST 2.5-3L	0.012	2	
X52830900162	Phoenix	Relay, Separating Plate	0.027	1	





UNIT UNDER TEST (UUT) Summary Sheet

UUT-1A

DCL 13347-2001, UUT3A

Model Line	Model Number	Manufacturer
Master Control Panel	Master Control Panel XS00E560.00036 (MCP2.0)	Rolls-Royce Solutions America Inc.

Product Construction Summary

16 GA Carbon Steel Enclosure with subcomponents

Options / Subcomponent Summary

Rolls-Royce Solutions America Inc. Enclosure, B&R Control Panel, Switches and Modules manufactured by IDEC and Mallory Sonalert and Phoenix and Eaton and B&R.

	FOR CODE COA												
UUT Properties													
Weight	45	Dimensions [in]					Lowest Nat. Freq. [Hz]						
[lbs]	Length	Width		Height		F-B	S-S	V					
140	24	019	SP-0688	37		16	18.5	25					
	UUT	Highest Pass	ed Seismic Ru	ın Informati	on								
Building Code	Test <mark>Criter</mark> ia	BVS _{psioh}	aminad Ka	rm (A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}					
CBC 2019	ICC-E <mark>S AC1</mark> 56	2.5	1.00	1.5	3.2	3	1.68	0.68					

Test Mounting Details

UUT was mounted to the wall fixture via unistrut with (4) 3/8" dia. grade 8 bolts, washers, 3" x 3" x 3/8" low carbon steel plate washers and spring nuts. Wall fixture is rigidly mounted to shake table.





All units were filled with contents and maintained structural integrity and functionality after AC-156 test.



UNIT UNDER TEST (UUT) Summary Sheet

UUT-1B

DCL 13347-2001, UUT3B

Model Line	Model Number	Manufacturer
Master Control Panel	Master Control Panel XS00E560.00036 (MCP2.0)	Rolls-Royce Solutions America Inc.

Product Construction Summary

16 GA Carbon Steel Enclosure with subcomponents

Options / Subcomponent Summary

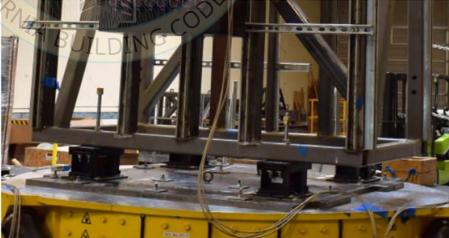
Rolls-Royce Solutions America Inc. Enclosure, B&R Control Panel, Switches and Modules manufactured by IDEC and Mallory Sonalert and Phoenix and Eaton and B&R.

	FOR CODE COA												
UUT Properties													
Weight	4	Dimension	ons [in]			Lowest Nat. Freq. [Hz							
[lbs]	Length	Width		Height		F-B	S-S	V					
140	24	01	3P-0688	3	7	3.5	3.5	17.5					
	UUT	Highest Pass	sed Seismic R	un Inform	nation	-	-	-					
Building Code	Test <mark>Criter</mark> ia	BVS _{psloh}	am <mark>z/h</mark> ad K	arm	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}					
CBC 2019	ICC-E <mark>S AC1</mark> 56	2.5	1.00	1.5	3.2	3	1.68	0.68					

Test Mounting Details

UUT was mounted to the wall fixture via unistrut with (4) 3/8" dia. grade 8 bolts, washers, 3" x 3" x 3/8" low carbon steel plate washers and spring nuts. Wall fixture is mounted atop VMC Spring isolators. Isolators mounted to steel interface plate. Steel interface plate mounted to shake table.





All units were filled with contents and maintained structural integrity and functionality after AC-156 test.