



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-0595

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Cummins

Manufacturer's Technical Representative: Vyshnav Raveendran

Mailing Address: 1400 73rd Avenue NE, Fridley, MN 55432

Telephone: (949) 253-6064

Email: Vyshnav.raveendran@cummins.com

Product Information

Product Name: DPF Control Panels

Product Model Number(s): 11-2-0067 and 11-2-0068

Product Category: Industrial Control Panels

Product Sub-Category: Boiler Control Panels

General Description: Control Panel for Diesel Generator After Treatment System

Mounting Description: Any Vertical Surface Mounted Rigid (tested wall mounted both rigid and flexible) -

Tested Seismic Enhancements: None

Applicant Information

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@thvmcgroup.com

Title: President



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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): _____

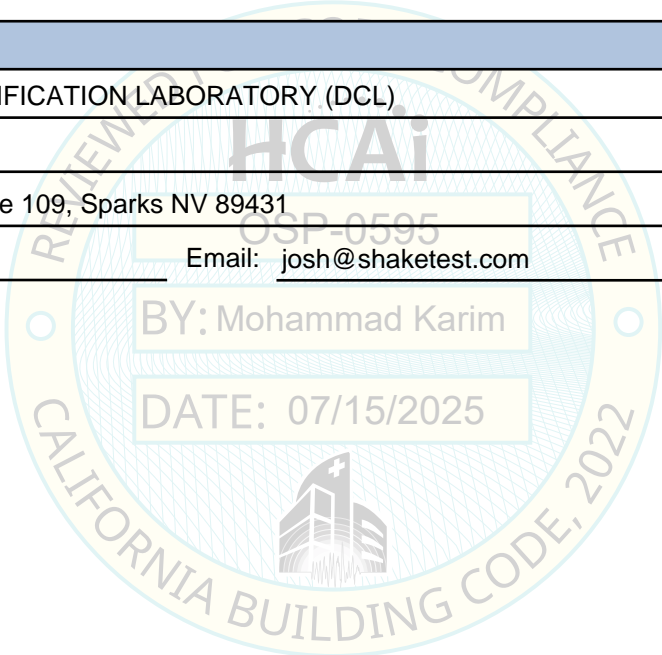
Testing Laboratory

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





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.50 (Rigid Wall) and 4.50 (Flexible Wall)

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

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0 (Rigid Wall) and 2.0 (Flexible Wall)

Ω_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 07/15/2031

Date: 7/15/2025

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): BY: Mohammad Karim

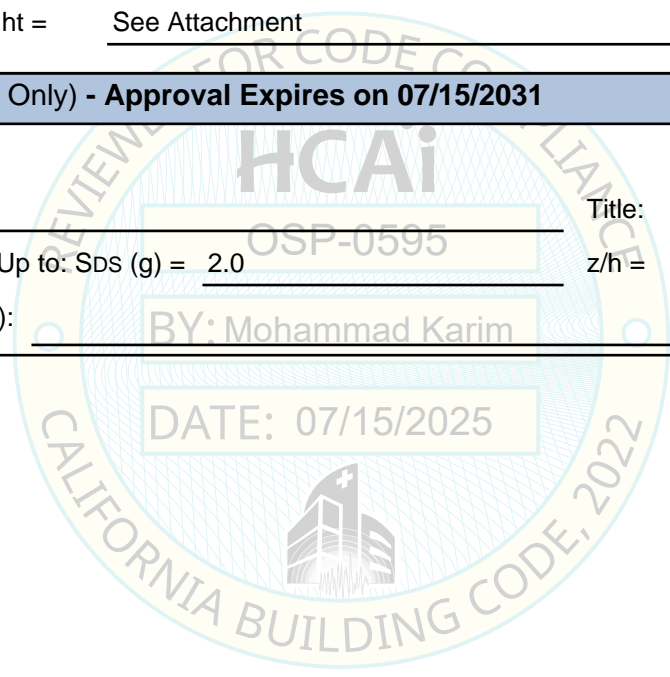


Table 1 - Certified Product Table

Model Number	Max Breaker Rating [Amps]	Enclosure				Max Weight [lbs]	Installation Method	UUT
		NEMA Rating	Max Height [in]	Max Width [in]	Max Depth [in]			
11-2-0067	6	3R	19.0	19.0	8.5	32	Rigid/Flexible Wall Mount	UUT-1a,b
11-2-0068	4	3R	19.0	19.0	8.5	35	Rigid/Flexible Wall Mount	UUT-2a,b

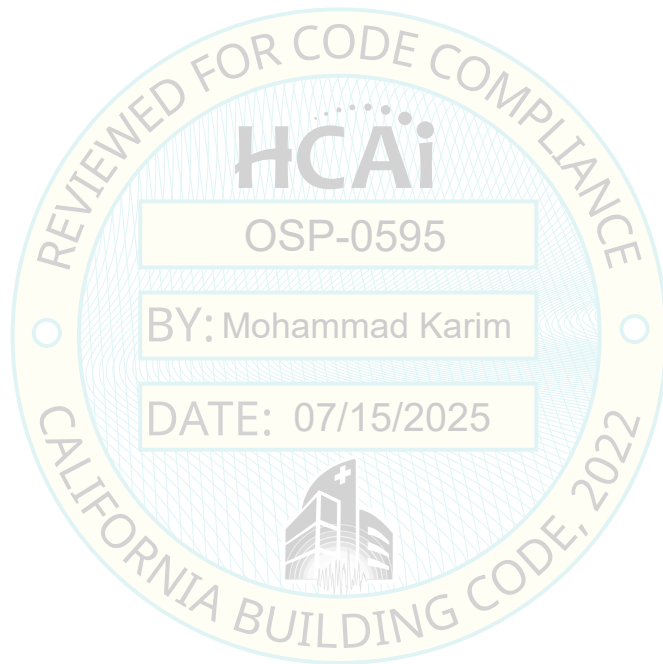


Table 2 - Certified Subcomponent Table

Cummins Part Number	Description	Weight [lbs]	Manufacturer	UUT
01-1-000662	Circuit Breaker (4A)	0.10	Phoenix Contact	UUT-2a,b
01-1-000682	Circuit Breaker (6A)	0.10	Phoenix Contact	UUT-1a,b
01-1-000509	DC Converter (24VDC/5VDC)	0.50	Phoenix Contact	UUT-1a,b UUT-2a,b
01-1-000168	DC Converter (12VDC/24VDC)	0.50	Phoenix Contact	UUT-1a,b UUT-2a,b
01-1-000277	Relay (6A @250VAC/30VDC)	0.07	Quantum Automation	UUT-1a,b UUT-2a,b
01-1-000008	Programmable Logic Controller (24VA, 1A)	1.30	Quantum Automation	UUT-1a,b UUT-2a,b
01-1-000554	4" Fan (24VDC, 11.8 CFM)	0.70	Rittal	UUT-1a,b UUT-2a,b
01-1-000001	CAN Modbus Slave Converter	0.40	AFDWEB	UUT-1a,b UUT-2a,b



UNIT UNDER TEST (UUT) Summary Sheet

UUT-1a

Test Report: 30877-1801; UUT-1a

Model Line	Model Number	Manufacturer
DPF Control Panels	11-2-0067	Cummins

Product Construction Summary

Plain Carbon Steel Enclosure

Options / Subcomponent Summary

4A Circuit Breaker: Phoenix Contact ; DC Converters: Phoenix Contact ; Relays: Quantum Automation ; Programmable Logic Controller: Quantum Automation ; Fans: Rittal ; CAN Modbus Slave Converter: AFDWEB

UUT Properties						
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
32	8.5	19.0	19.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
		-	-	-	-	-	-	-

Test Mounting Details

UUT-1a was mounted to 12 gage unistrut on the DCL Wall Interface Fixture using (4) 1/4"-20 diameter grade 5 bolts, washers, plate washers, and spring nuts. DCL Wall Interface Fixture mounted directly 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

Test Report: 30877-1801; UUT-1b

Model Line	Model Number	Manufacturer
DPF Control Panels	11-2-0067	Cummins

Product Construction Summary

Plain Carbon Steel Enclosure

Options / Subcomponent Summary

4A Circuit Breaker: Phoenix Contact ; DC Converters: Phoenix Contact ; Relays: Quantum Automation ; Programmable Logic Controller: Quantum Automation ; Fans: Rittal ; CAN Modbus Slave Converter: AFDWEB

UUT Properties						
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
32	8.5	19.0	19.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
		-	-	-	-	-	-	-

Test Mounting Details

UUT-1b was mounted to 12 gage unistrut on the DCL Wall Interface Fixture using (4) 1/4"-20 diameter grade 5 bolts, washers, plate washers, and spring nuts. DCL Wall Interface Fixture mounted to (4) VMC MSSH-1E-825N Spring Isolators. Isolators mounted to adapting plate. Adapting plate mounted directly 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-2a

Test Report: 30877-1801; UUT-2a

Model Line	Model Number	Manufacturer
DPF Control Panels	11-2-0068	Cummins

Product Construction Summary

Plain Carbon Steel Enclosure

Options / Subcomponent Summary

6A Circuit Breaker: Phoenix Contact ; DC Converters: Phoenix Contact ; Relays: Quantum Automation ; Programmable Logic Controller: Quantum Automation ; Fans: Rittal ; CAN Modbus Slave Converter: AFDWEB

UUT Properties						
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
35	8.5	19.0	19.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
		-	-	-	-	-	-	-

Test Mounting Details

UUT-2a was mounted to 12 gage unistrut on the DCL Wall Interface Fixture using (4) 1/4"-20 diameter grade 5 bolts, washers, plate washers, and spring nuts. DCL Wall Interface Fixture mounted directly 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-2b

Test Report: 30877-1801; UUT-2b

Model Line	Model Number	Manufacturer
DPF Control Panels	11-2-0068	Cummins

Product Construction Summary

Plain Carbon Steel Enclosure

Options / Subcomponent Summary

6A Circuit Breaker: Phoenix Contact ; DC Converters: Phoenix Contact ; Relays: Quantum Automation ; Programmable Logic Controller: Quantum Automation ; Fans: Rittal ; CAN Modbus Slave Converter: AFDWEB

UUT Properties						
Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
35	8.5	19.0	19.0	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S _{DS}	z/h	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
		-	-	-	-	-	-	-

Test Mounting Details

UUT-2b was mounted to 12 gage unistrut on the DCL Wall Interface Fixture using (4) 1/4"-20 diameter grade 5 bolts, washers, plate washers, and spring nuts. DCL Wall Interface Fixture mounted to (4) VMC MSSH-1E-825N Spring Isolators. Isolators mounted to adapting plate. Adapting plate mounted directly to shake table.



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