



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR OSHPD SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY	
APPLICATION #:	OSP – 0595

**OSHPD Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Cummins

Manufacturer's Technical Representative: Mercedes Wiemers

Mailing Address: 1939 Deere Ave, Irvine, CA 92606

Telephone: 949-253-6064 Email: [mercedes.wiemers@cummins.com](mailto:mercedes.wiemers@cummins.com)

**Product Information**

Product Name: DPF Control Panels

Product Type: Control Panel

Product Model Number: 11-2-0067 and 11-2-0068

(List all unique product identification numbers and/or part numbers)

General Description: Control Panel for Diesel Generator After Treatment System

Mounting Description: Wall Mounted to Flexible or Rigid Wall

**Applicant Information**


Applicant Company Name: The VMC Group

Contact Person: John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

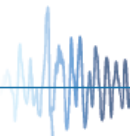
Telephone: 973-838-1780 Email: [john.giuliano@thvmcgroup.com](mailto:john.giuliano@thvmcgroup.com)

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: 3/12/19

Title: President Company Name: The VMC Group

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





**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: CA – S2851

Mailing Address: 180 Promenade Cir. Suite 300, Sacramento, CA 95835

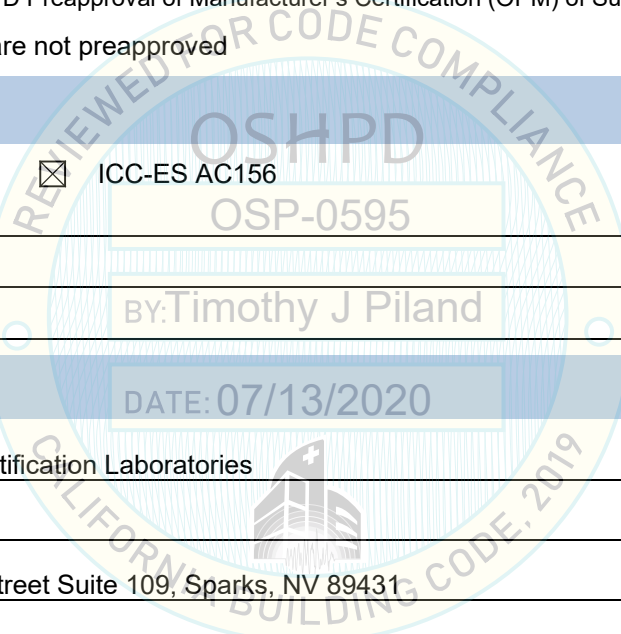
Telephone: 832-627-2214 Email: [ken.tarlow@thevmcgroup.com](mailto:ken.tarlow@thevmcgroup.com)

**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**

- Testing in accordance with:  ICC-ES AC156
- Other (Please Specify): \_\_\_\_\_



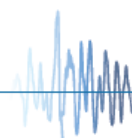
**Testing Laboratory**

Company Name: Dynamic Certification Laboratories

Contact Name: Josh Sailer

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

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





**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 ( $F_p/W_p$ ) = 1.50 (Rigid Wall) and 4.50 (Flexible Wall)

$S_{DS}$  (Design spectral response acceleration at short period, g) = 2.00

$a_p$  (In-structure equipment or component amplification factor) = 2.5

$R_p$  (Equipment or component response modification factor) = 6.0 (Rigid Wall) and 2.0 (Flexible Wall)

$\Omega_0$  (System overstrength factor) = 2

$I_p$  (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) = \_\_\_\_\_

$\Omega_0$  (System overstrength factor) = \_\_\_\_\_

$C_d$  (Deflection amplification factor) = \_\_\_\_\_

$I_p$  (Importance factor) = 1.5

Height to Center of Gravity above 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**

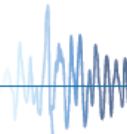
Signature:  Date: July 13, 2020

Print Name: Timothy J Piland Title: SSE

Special Seismic Certification Valid Up to:  $S_{DS}$  (g) = 2.00  $z/h$  = 1

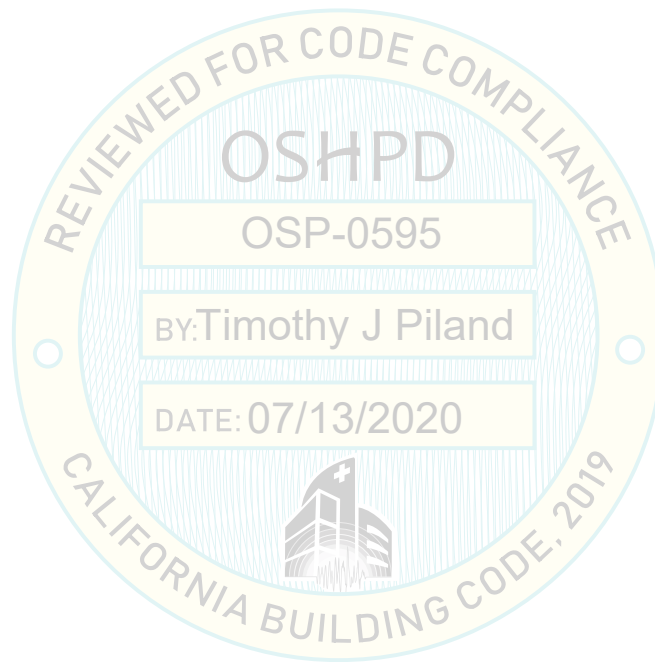
Condition of Approval (if applicable): \_\_\_\_\_

\_\_\_\_\_



**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 Logig 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-01a

30877-1801; UUT-01a

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	19	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2016	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.



UUT-1a

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





# UNIT UNDER TEST (UUT) Summary Sheet

UUT-01b

30877-1801; UUT-01b

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	19	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2016	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.



UUT-1b

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



# UNIT UNDER TEST (UUT) Summary Sheet

UUT-02a

30877-1801; UUT-02a

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	19	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2016	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-02b

30877-1801; UUT-02b

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	19	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information								
Building Code	Test Criteria	S <sub>DS</sub>	z/h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2016	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.



UUT-2b

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