



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

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

OFFICE USE ONLY	
APPLICATION #:	OSP – 0029

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Cummins Power Generation

Manufacturer's Technical Representative: B.S. Raghukumar

Mailing Address: 1400 73rd Ave N. E. Fridley, MN 55432 USA

Telephone: 763.574.3302 Email: b.s.raghukumar@cummins.com

Product Information

Product Name: Cummins Automatic & By-Pass Transfer Switches

Product Type: BTPC, OTPC, OTEC, CHPC, OHPC

Product Model Number: See Certified Product Tables 1 to 6

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

ATS's are designed for operation & switching of electrical loads between primary power and standby generator sets. They are suitable for use in emergency, legally required & optional standby applications. Bypass Isolation transfer switches combine an automatic transfer switch with a draw out isolation mechanism and a manual bypass switch. It provides a redundant power transfer capability for critical need applications that require a reliable power supply to the load. Seismic enhancement made to the test units and modifications required to address anomalies observed during the tests, shall be incorporated into the production units.

General Description: _____

Mounting Description: Rigid Floor Mounted and Rigid Wall Mounted

Applicant Information


Applicant Company Name: VMC Group

Contact Person: John P Giuliano, PE

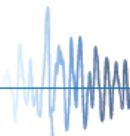
Mailing Address: 113 Main St, Bloomingdale, NJ 07403

Telephone: 973-838-1780 Email: john.giuliano@themvcgroup.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: 11/14/19
 Title: President Company Name: 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: VMC Group

Name: Kenneth Tarlow California License Number: S2851

Mailing Address: 180 Promenade Circle Suite 300 Sacramento CA 95834

Telephone: 973-838-1780 Email: ken.tarlow@thvmcgroup.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: Clark Dynamic Test Laboratory

Contact Name: On File

Mailing Address: 1801 Route 51 South Jefferson Hills PA 15025

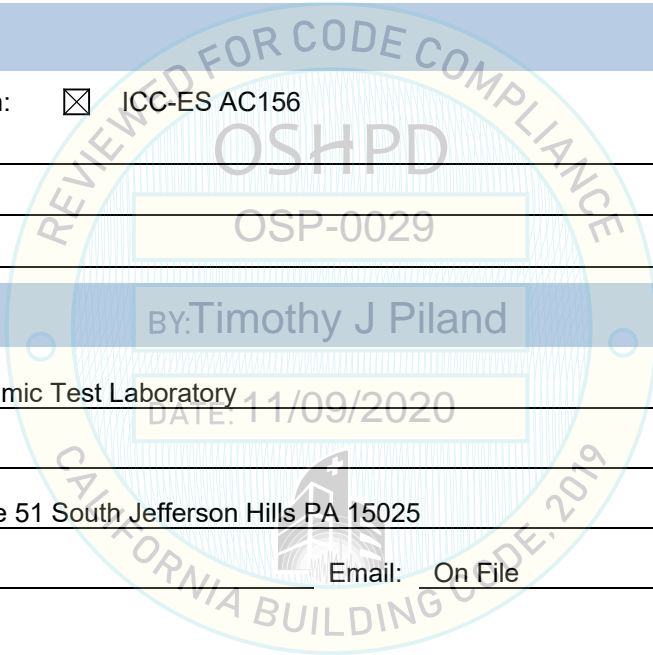
Telephone: 412-382-7173 Email: On File

Company Name: Environmental Testing Laboratory Inc.

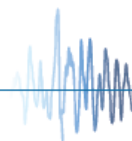
Contact Name: Brady Richard

Mailing Address: 11034 Indian Trail Dallas TX 75229

Telephone: 972-247-9657 Email: info@etldallas.com



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**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
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Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = 1.63

S_{DS} (Design spectral response acceleration at short period, g) = 2.17

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

R_p (Equipment or component response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1

Equipment or Component Natural Frequencies (Hz) = See UUT-1 to UUT-9

Overall dimensions and weight (or range thereof) = See Certified Product Tables

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) = _____

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): Tables 1, 2, 3, 4, 5, 6 & UUT-1 to UUT-9

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025

Signature: Date: November 9, 2020

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to: S_{DS} (g) = 2.17 z/h = 1

Condition of Approval (if applicable): _____

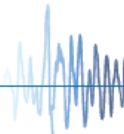


Table 1 - OTEC/OTPC Series

Model	Amps	Frame	Enclosure Type	Mechanism Type	Switch Type	Max Dimensions [in]			Max CG [in]	Max Weight [lb]	Max Tension [lb]	Mounting Config.	UUT	
						Height	Width	Depth						
OTEC / OTPC	40-125	A	NEMA 1, 3R, 4, 12	Open, Delayed	3-Pole	46.0	32.0	16.0	8.0	200	100.0	Rigid Wall	Extrapolated	
					4-Pole	46.0	32.0	16.0	8.0	200	100.0		Extrapolated	
OTEC / OTPC	150-260	B	NEMA 1, 3R, 4, 12	Open, Delayed	3-Pole	46.0	32.0	16.0	8.0	200	100.0		Extrapolated	
					4-Pole	46.0	32.0	16.0	8.0	200	100.0		Extrapolated	
OTEC / OTPC	300-600	C	NEMA 1, 3R, 4, 12	Open, Delayed	3-Pole	74.0	34.0	20.0	10.0	410	205.0		Extrapolated	
					4-Pole	74.0	34.0	20.0	10.0	410 (560 Tested)	280.0		UUT-08	
OTEC / OTPC	800-1000	D	NEMA 1, 3R, 4, 12	Open, Delayed	3-Pole	74.0	33.0	21.0	10.5	410	205.0		Interpolated	
					4-Pole	74.0	33.0	21.0	10.5	410	205.0		UUT-02	
OTEC / OTPC	1000-1200	E	NEMA 1, 3R, 4, 12	Open, Delayed, Closed Momentary	3-Pole	90.0	39.0	28.0	45.0	730	1173.2		Rigid Base	Extrapolated
					4-Pole	90.0	39.0	28.0	45.0	730	1173.2			UUT-09
OTPC	1600	F	NEMA 1, 3R, 4, 12	Open, Delayed, Closed Momentary	3-Pole	90.0	32.5	51.0	40.0	900	1107.7	Interpolated		
					4-Pole	90.0	38.0	51.0	40.0	960	1010.5	Interpolated		
OTPC	2000	G	NEMA 1, 3R, 4, 12	Open, Delayed, Closed Momentary	3-Pole	90.0	32.5	51.0	40.0	900	1107.7	Interpolated		
					4-Pole	90.0	38.0	51.0	40.0	960	1010.5	Interpolated		
OTPC	3000	H	NEMA 1, 3R, 4, 12	Open, Delayed, Closed Momentary	3-Pole	90.0	32.5	51.0	42.0	1,100	1421.5	Interpolated		
					4-Pole	90.0	38.0	51.0	42.0	1,180	1304.2	UUT-03		
OTPC	4000	J	NEMA 1, 3R	Open, Delayed, Closed Momentary	3-Pole	90.0	40.0	60.0	41.0	1,595	1634.9	Interpolated		
					4-Pole	90.0	49.0	60.0	41.0	1,850	1548.0	UUT-06		

Notes: OTEC and OTPC are identical except for use of different controllers; OTEC uses the EC Type controller and OTPC uses the PC Type controller.

Table 2 - OHPC/CHPC Series

Model	Amps	Frame	Enclosure Type	Mechanism Type	Switch Type	Max Dimensions [in]			Max CG [in]	Max Weight [lb]	Max Tension [lb]	Mounting Config.	UUT
						Height	Width	Depth					
OHPC/ CHPC	800	D	NEMA 1, 3R, 4, 12	Open, Delayed, Closed Momentary	3-Pole	74.0	33.0	21.0	10.5	410	205	Rigid Wall	Interpolated
					4-Pole	72.0	35.0	21.0	10.5	455	228		UUT-01

Notes: CHPC and OHPC are identical except for the use of different controllers; OHPC uses PC Type Level 1 or 2 controller (Feature C023 and C024) and CHPC uses PC Type Level 2 controller (Feature C024).

Table 3 - BTPC Series, Certified Bypass Transfer Switches

Model	Amps	Frame	Enclosure Type	Mechanism Type	Switch Type	Max Dimensions [in]			Max CG [in]	Max Weight [lb]	Max Tension [lb]	Mounting Config.	UUT
						Height	Width	Depth					
BTPC	150-260	B	NEMA 1, 3R, 4, 12	Open, Delayed, Closed Momentary	3-Pole	72.0	36.0	23.0	36.0	564	883	Rigid Base	Extrapolated
					4-Pole	72.0	36.0	23.0	36.0	564	883		Extrapolated
BTPC	300-600	C	NEMA 1, 3R, 4, 12		3-Pole	83.0	36.0	23.0	41.5	639	1,153		Extrapolated
					4-Pole	83.0	36.0	23.0	41.5	639	1,153		Extrapolated
BTPC	800-1000	D	NEMA 1, 3R, 4, 12	Open, Delayed, Closed Momentary	3-Pole	90.0	48.0	28.0	45.0	1,100	1,768		Extrapolated
					4-Pole	90.0	48.0	28.0	45.0	1,100	1,768		UUT-07
BTPC	1200	E	NEMA 1, 3R, 4, 12	Open, Delayed, Closed Momentary	3-Pole	90.0	48.0	28.0	41.5	1,980	2,935		Interpolated
					4-Pole	90.0	48.0	28.0	41.5	2,185	3,238		Interpolated
BTPC	1600	F	NEMA 1, 3R		3-Pole	80.0	41.0	63.0	37.5	4,997	4,570		Interpolated
					4-Pole	80.0	46.0	63.0	37.5	5,305	4,325		Interpolated
BTPC	2000	G	NEMA 1, 3R		3-Pole	80.0	41.0	63.0	37.5	4,997	4,570		Interpolated
					4-Pole	80.0	46.0	63.0	37.5	5,305	4,325		Interpolated
BTPC	3000	H	NEMA 1, 3R	Open, Delayed, Closed Momentary	3-Pole	80.0	41.0	63.0	37.5	4,997	4,570		Interpolated
					4-Pole	80.0	46.0	63.0	37.5	5,035 (5,030 Tested)	4,101		UUT-05
BTPC	4000	J	NEMA 1, 3R		3-Pole	90.0	49.0	81.0	43.0	5,178	4,544	Interpolated	
					4-Pole	90.0	54.0	81.0	43.0	6,300	5,017	UUT-04	

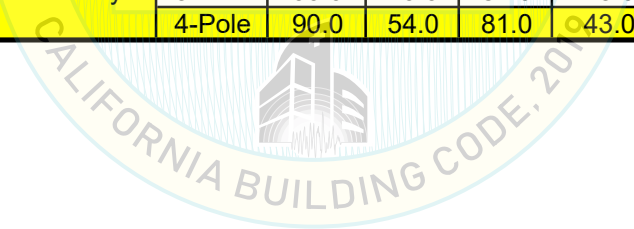


Table 4 - Certified Enclosures

Type	Amp Range	Construction	Material	Thickness [Gauge]	MFR	Mounting Configuration	UUT
NEMA 1	40-1000	Welded	Carbon Steel	12, 14	Cummins	Rigid Wall	UUT-01, -02
NEMA 3R	40-1000	Welded	Carbon Steel	12			UUT-08
NEMA 4	40-1000	Welded	Carbon Steel	12	Cummins		Extrapolated
NEMA 12	40-1000	Welded	Carbon Steel	12			Extrapolated
NEMA 1	40-4000	Welded, Welded Frame / Bolted Panel, Bolted Frame / Bolted Panel	Carbon Steel	10, 12, 14	Cummins GE/ABB	Rigid Base	UUT-03, -04, -05, -06, -09
NEMA 3R	150-4000	Welded, Welded Frame / Bolted Panel	Carbon Steel	10, 12, 14			UUT-07
NEMA 4	150-2000	Welded	Carbon Steel	10, 12	Cummins	Rigid Base	Extrapolated
NEMA 12	150-2000	Welded	Carbon Steel	10, 12	GE/ABB		Extrapolated

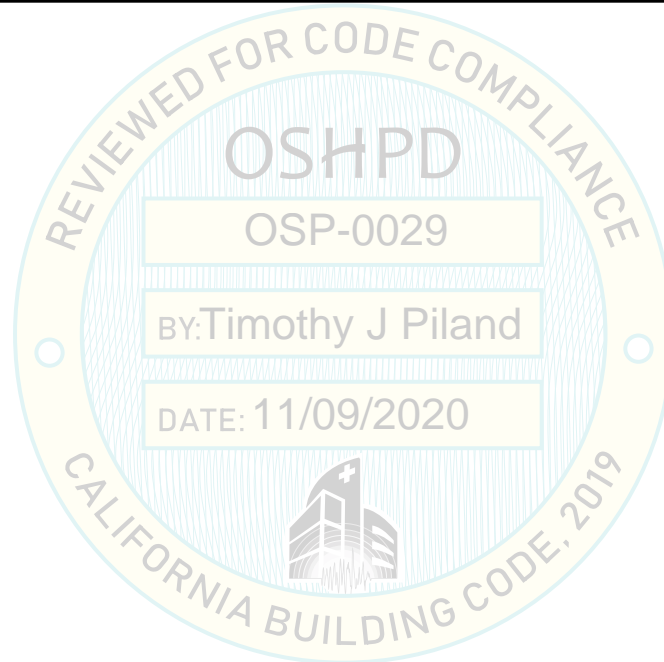
Notes: NEMA 3R construction is identical to NEMA 4 and 12 with the exception of drain holes.

Table 5- Certified Mechanisms

Part Number	Amp Range	Poles	Type	Max Weight [lb]	MFR	Mounting Configuration	UUT
0306-5132-01 - 0306-5393-08	150-1000	3, 4	Bypass Transfer Switch Frame	445	Cummins	Rigid Base	Extrapolated
0306-5135-02 - 0306-5395-06	150-1000	3, 4	Transfer Switch	165	Cummins	Rigid Base	Extrapolated
A026C322 - A026C332	1000	3, 4	Transfer Switch	165	Cummins	Rigid Base	Extrapolated
A030D541 - A030D584	1200	3, 4	Transfer Switch	230	Cummins	Rigid Base	Extrapolated
0306-4351-07 - 0306-5121-10	1000-4000	3, 4	Bypass Transfer Switch	4,230	GE/ABB	Rigid Base	UUT-04, -07
A029N253 - A032X273	1600-3000	3, 4	Bypass Transfer Switch	2,812	GE/ABB		UUT-05
0306-4385-06 - 0306-5168-14	1000-4000	3, 4	Transfer Switch	1,025	GE/ABB	Rigid Base	UUT-06, -09
0306-4681-01 - 0306-4773-03	40-800	2, 3, 4	Transfer Switch	186	Cummins	Rigid Wall	UUT-01
0306-5023-01 - 0306-5336-05	40-1000	3, 4	Transfer Switch	165	Cummins		UUT-02, -08
0306-5196-01 - 0306-5208-12	40-1000	3, 4	Transfer Switch	165	Cummins		Extrapolated
A035F150 - A035F170	100-200	3, 4	Transfer Switch	50	Cummins		Extrapolated

Table 6 - Certified Controllers

Part Number	Transition Type	Weight [lb]	MFR	UUT
PC Type C023	Open, Delayed	6	Cummins	UUT-02
PC Type C023	Open, Delayed	6	Cummins	UUT-03, -05, -06
PC Type C024	Open, Delayed, Closed Momentary	9	Cummins	UUT-01, -08
PC Type C024	Open, Delayed, Closed Momentary	9	Cummins	UUT-04, -07
EC Type M034	Open, Delayed	1	Deep Sea	UUT-09





UNIT UNDER TEST (UUT) Summary Sheet

UUT-1

UUT-3, EL8169

Model Line	Model Number	Manufacturer
Cummins Automatic Transfer Switches	CHPC 800A	Cummins Power Generation

Product Construction Summary

Wall mounted, metal enclosure NEMA type 1 rated

Options / Subcomponent Summary

CH Switch, 800A, 4 pole, 480V, PC type Level 2 Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
455	35	21	72	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 2016	ICC-ES AC156	2.17	1.00	1.5	3.47	2.6	2.33	1.74

Test Mounting Details

Unit was wall mounted with (4) - 7/16" diameter Carbon Steel Hex Head Bolts

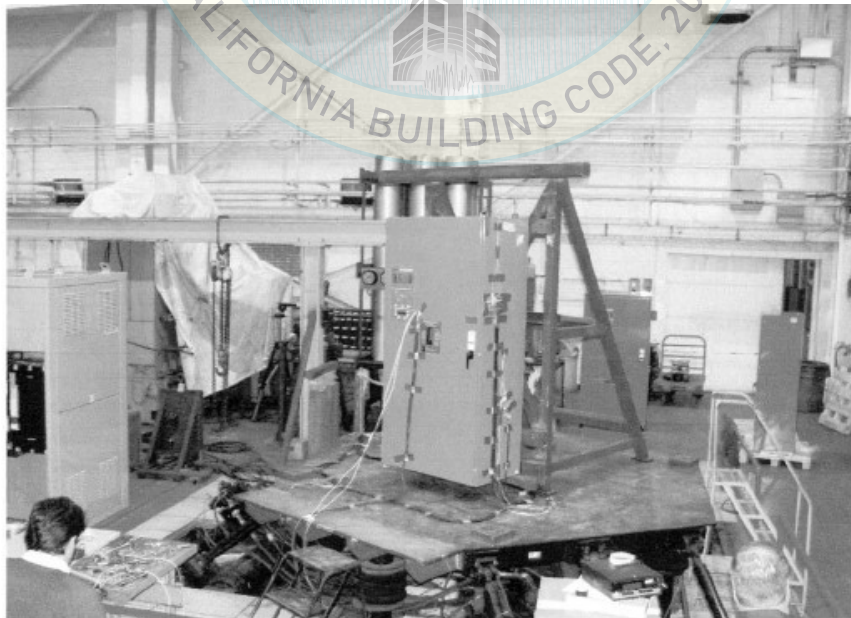


Figure 3 CHPC800 Cabinet Mounted on Tri-axial Table

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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-2

UUT-4, EL8169

Model Line	Model Number	Manufacturer
Cummins Automatic Transfer Switches	OTPC 1000A	Cummins Power Generation

Product Construction Summary

Wall mounted, metal enclosure NEMA type 1 rated

Options / Subcomponent Summary

OT Switch, 1000A, 4 pole, 480V, PC type Level 1 Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
362	30	21	68	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 2016	ICC-ES AC156	2.17	1.00	1.5	3.47	2.6	2.33	1.74

Test Mounting Details

Unit was wall mounted with (4) - 3/8" diameter Carbon Steel Hex Head Bolts

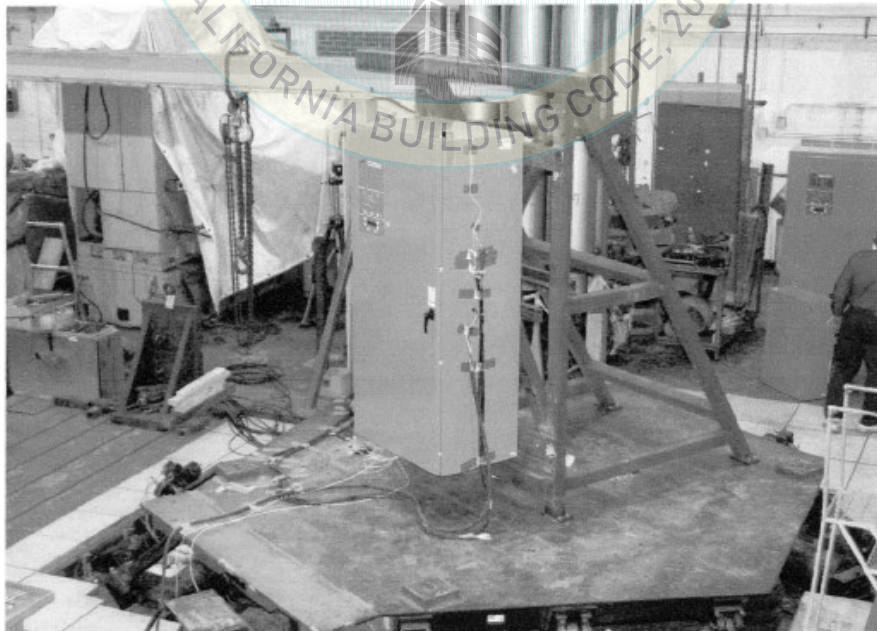


Figure 4 OPC1000 Cabinet Mounted on the Tri-axial Table

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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-3

UUT-6, EL8169

Model Line	Model Number	Manufacturer
Cummins Automatic Transfer Switches	OTPC 3000A	Cummins Power Generation

Product Construction Summary

Floor mounted, metal enclosure NEMA type 1 rated

Options / Subcomponent Summary

OT Switch, 3000A, 4 pole, 480V, PC type Level 1 Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
1250	30	50	90	17.9	7.8	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 2016	ICC-ES AC156	2.17	1.00	1.5	3.47	2.6	2.33	1.74

Test Mounting Details

Unit was floor mounted with (4) - 5/8" diameter Carbon Steel Hex Head Bolts



Figure 6 OPC3000 Cabinet Mounted on Tri-axial Table

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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-4

UUT-1, EL8255

Model Line	Model Number	Manufacturer
Cummins Automatic Transfer Switches	BTPC 4000A	Cummins Power Generation

Product Construction Summary

Floor mounted, metal enclosure NEMA type 1 rated

Options / Subcomponent Summary

BT By-Pass Switch, 4000A, 4 pole, 480V, PC type Level 2 Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
6300	54	81	90	21.1	8.6	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 2016	ICC-ES AC156	2.17	1.00	1.5	3.47	2.6	2.33	1.74

Test Mounting Details

Unit was floor mounted with (4) - 1/2" diameter Carbon Steel Hex Head Bolts

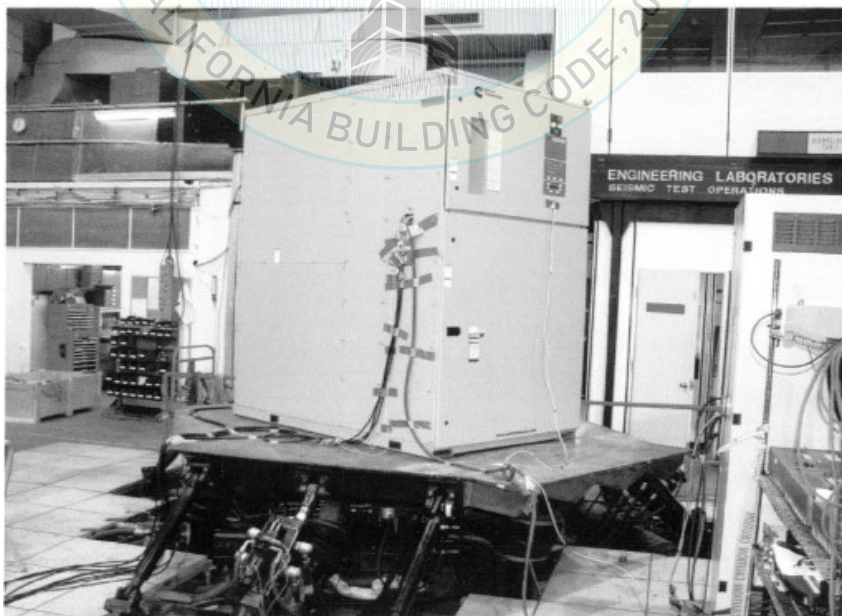


Figure 1 BTPC4000 Cabinet Mounted on Tri-axial Table

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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-5

UUT-2, EL8255

Model Line	Model Number	Manufacturer
Cummins Automatic Transfer Switches	BTPC 3000A	Cummins Power Generation

Product Construction Summary

Floor mounted, metal enclosure NEMA type 1 rated

Options / Subcomponent Summary

BT By-Pass Switch, 3000A, 4 pole, 480V, PC type Level 1 Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
5030	54	72	90	13.3	8.6	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 2016	ICC-ES AC156	2.17	1.00	1.5	3.47	2.6	2.33	1.74

Test Mounting Details

Unit was floor mounted with (4) - 1/2" diameter Carbon Steel Hex Head Bolts

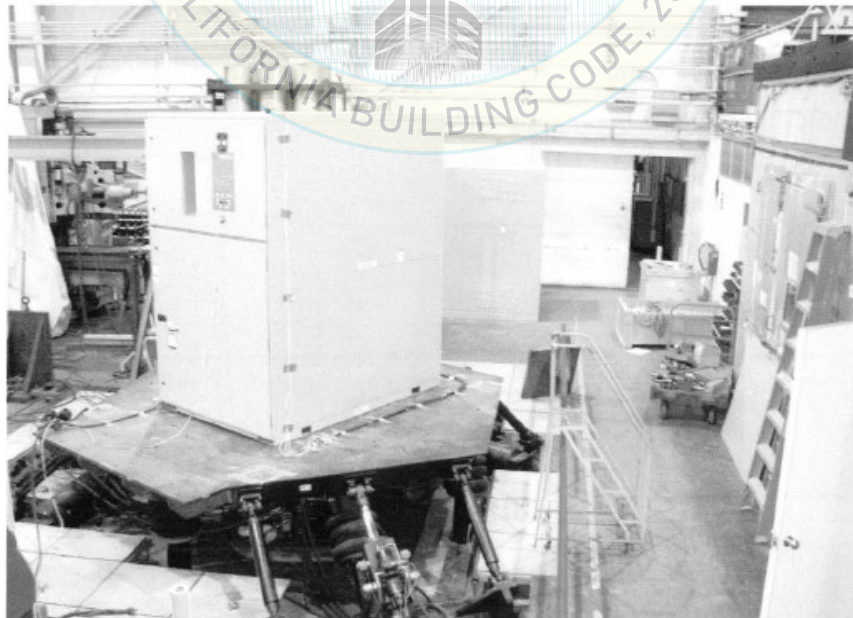


Figure 2 BTPC3000 Cabinet Mounted on Tri-axial Table

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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-6

UUT-3, EL8255

Model Line	Model Number	Manufacturer
Cummins Automatic Transfer Switches	OTPC 4000A	Cummins Power Generation

Product Construction Summary

Floor mounted, metal enclosure NEMA type 1 rated

Options / Subcomponent Summary

OT Switch, 4000A, 4 pole, 480V, PC type Level 1 Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
1800	46.5	60	90	16.3	8.6	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 2016	ICC-ES AC156	2.17	1.00	1.5	3.47	2.6	2.33	1.74

Test Mounting Details

Unit was floor mounted with (4) - 1/2" diameter Carbon Steel Hex Head Bolts

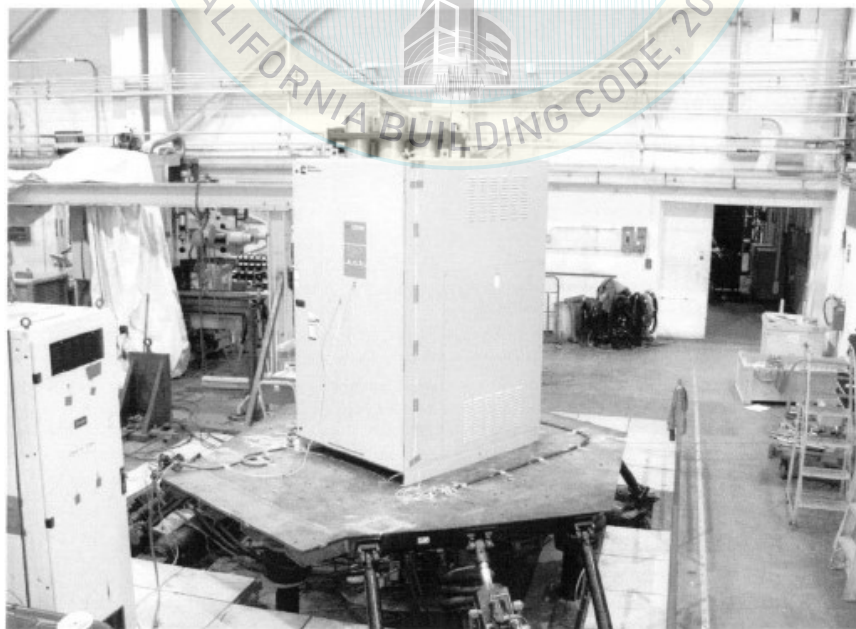


Figure 3 OTPC4000 Cabinet Mounted on Tri-axial Table

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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-7

UUT-1, EL8642

Model Line	Model Number	Manufacturer
Cummins Automatic Transfer Switches	BTPC 1000A	Cummins Power Generation

Product Construction Summary

Floor mounted, metal enclosure NEMA type 3R rated

Options / Subcomponent Summary

BT By-Pass Switch, 1000A, 4 pole, 480V, PC type Level 2 Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
1100	48	28	90	25.8	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 2016	ICC-ES AC156	2.17	1.00	1.5	3.47	2.6	2.33	1.74

Test Mounting Details

Unit was floor mounted with (4) - 5/8" diameter Carbon Steel Hex Head Bolts



Figure 1 BTPC 1000A Cabinet mounted on Tri-axial Table

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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-8

UUT-2, EL8642

Model Line	Model Number	Manufacturer
Cummins Automatic Transfer Switches	OTPC 600A	Cummins Power Generation

Product Construction Summary

Wall mounted, metal enclosure NEMA type 3R rated

Options / Subcomponent Summary

OT Switch, 600A, 4 pole, 480V, PC type Level 2 Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
560	34	20	74	25.8	33.6	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 2016	ICC-ES AC156	2.17	1.00	1.5	3.47	2.6	2.33	1.74

Test Mounting Details

Unit was wall mounted with (4) - 3/8" diameter Carbon Steel Hex Head Bolts



Figure 2 OPC 600A Cabinet mounted on Tri-axial Table

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



UNIT UNDER TEST (UUT) Summary Sheet

UUT-9

UUT-1, ETL 11383A

Model Line	Model Number	Manufacturer
Cummins Automatic Transfer Switches	OTEC 1200A	Cummins Power Generation

Product Construction Summary

Floor mounted, metal enclosure NEMA type 1 rated

Options / Subcomponent Summary

OT Switch, 1200A, 4 pole, 480V, EC type Controller

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
730	39	28	90	6.4	8.7	30.4

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 2016	ICC-ES AC156	2.17	1.00	1.5	3.47	2.6	2.33	1.74

Test Mounting Details

Unit was floor mounted with (4) - 1/2" diameter Carbon Steel Hex Head Bolts



Seismic Qualification for Cummins OTEC 1200 ATS Goldfinger Switch

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