



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-0911

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Cummins Power Generation

Manufacturer's Technical Representative: Vyshnav Raveendran

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

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Product Information

Product Name: CBT Transfer Switches

Product Model Number(s): CBTC8, CBTD8, CBTE8

Product Category: Emergency and Standby Power Systems

Product Sub-Category: Automatic Transfer Switches

General Description: CBT Bypass Automatic Transfer Switches

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: VMC Group

Contact Person: John Giuliano

Mailing Address: 113 Main Street, Bloomingdale, NJ 07403

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Title: VMC Group



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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: THE VMC GROUP

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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)

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BY: Mohammad Karim

DATE: 09/11/2026



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Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

Horizontal (A Flx-H), $g =$ 3.2 (A Rig-H), $g =$ 2.15

Vertical (A Flx-V), $g =$ 1.67 (A Rig-V), $g =$ 0.67

SDS (Design spectral response acceleration at short period, g) = 2.0 @ $z/h = 1.0$; 2.5 @ $z/h = 0.0$

H_f (Force amplification height factor) = 1 @ $z/h = 0$; 3.5 @ $z/h = 1$

R_u (Structure ductility reduction factor) = 1 @ $z/h = 0$; 1.3 @ $z/h = 1$

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

HCAI Approval (For Office Use Only) - Approval Expires on 09/13/2032

Date: 9/11/2026

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable):

OSP-0911

BY: Mohammad Karim

DATE: 09/11/2026

Table 1 - Certified Product Table CBT Series Bypass Transfer Switch

Frame	Model	Amperage [A]	Voltage [V]	Poles	Cabinet Type	Cabinet PN	Construction Material	Max Dimensions [in]			Max Weight	UUT
								Length	Width	Height		
C	CBTC8	150-600	208-600	3 A/B/C	Type 1	A075X716	Carbon Steel	37.3	40.75	84.3	1,470	Extrapolated
					Type 3R	A075K287		37.3	40.75	84.3	1,496	Extrapolated
				4 A/B/C/N	Type 1	A075X716		37.3	40.75	84.3	1,523	Extrapolated
					Type 3R	A075K287		37.3	40.75	84.3	1,549	Extrapolated
D	CBTD8	600-1000		3 A/B/C	Type 1	A075Z654		49.2	40.75	90.5	1,796	Extrapolated
					Type 3R	A074Z010		49.2	40.75	90.5	1,822	Extrapolated
				4 A/B/C/N	Type 1	A075Z654		49.2	40.75	90.5	1,836	Extrapolated
					Type 3R	A074Z010		49.2	40.75	90.5	1,862	Extrapolated
E	CBTE8	1200		3 A/B/C	Type 1	A075X521		54.2	40.75	90.5	1,843	Extrapolated
					Type 3R	A074U419		54.2	40.75	90.5	1,869	Extrapolated
				4 A/B/C/N	Type 1	A075X521		54.2	40.75	90.5	1,947	Extrapolated
					Type 3R	A074U419		54.2	40.75	90.5	1,973	Extrapolated

Notes

- 1) Extrapolated models are depopulated versions of the models in Table 2 (without pull box).
2) Deflection $\Delta_{max} = (\text{Weight})(\text{CGH})^3 / (3)(E)(I)$] of all extrapolated models have lower deflection than the tested models.

Table 2 - Certified Product Table CBT Series Bypass Transfer Switch w/ Pullbox

Frame	Model	Amperage [A]	Voltage [V]	Poles	Cabinet Type	Cabinet PN	Construction Material	Max Dimensions [in]			Max Weight	UUT
								Length	Width	Height		
C	CBTC8	150-600	208-600	3 A/B/C	Type 1 w/Pullbox	A075X716+A073G049	Carbon Steel	53.5	40.75	84.3	1,720	Extrapolated
					Type 3R w/Pullbox	A075K287+A073G049		53.5	40.75	84.3	1,820	UUT-02
				4 A/B/C/N	Type 1 w/Pullbox	A075X716+A073G049		53.5	40.75	84.3	1,773	Interpolated
					Type 3R w/Pullbox	A075K287+A073G049		53.5	40.75	84.3	1,769	Interpolated
D	CBTD8	600-1000		3 A/B/C	Type 1 w/Pullbox	A075Z655+A074V997		73.7	40.75	90.5	2,132	Interpolated
					Type 3R w/Pullbox	A074Z010+A074V997		73.7	40.75	90.5	2,158	Interpolated
				4 A/B/C/N	Type 1 w/Pullbox	A075Z654+A074V997		73.7	40.75	90.5	2,172	Interpolated
					Type 3R w/Pullbox	A074Z010+A074V997		73.7	40.75	90.5	2,198	Interpolated
E	CBTE8	1200		3 A/B/C	Type 1 w/Pullbox	A075X521+A074V997		78.5	40.75	90.5	2,179	Interpolated
					Type 3R w/Pullbox	A074U419+A074V997		78.5	40.75	90.5	2,205	Interpolated
				4 A/B/C/N	Type 1 w/Pullbox	A075X521+A074V997		78.5	40.75	90.5	2,283	Interpolated
					Type 3R w/Pullbox	A074U419+A074V997		78.5	40.75	90.5	2,440	UUT-01

Notes

- 1) Underlined and/or Highlighted Units Shake Tested in Accordance with AC156
2) Mounting footprints of units with pull box are identical to units without pull box. Pull box is attached to side of unit with no attachments at the base.
3) Deflection $\Delta_{max} = (\text{Weight})(\text{CGH})^3 / (3)(E)(I)$] of all interpolated models are within 10% tolerance of tested models.

Table 3 - Certified Subcomponents

Component [MFR]	Part Number	Notes	Weight [lbs]	UUT
Enclosure [Cummins]	A075X716	NEMA Type 1, 3pole/4pole	651	Extrapolated
	A075K287	NEMA Type 3R, 3pole/4pole	678	UUT-2
	A075Z654	NEMA Type 1, 3pole/4pole	808	Interpolated
	A074Z010	NEMA Type 3R, 3pole/4pole	835	Interpolated
	A075X521	NEMA Type 1, 3pole/4pole	847	Interpolated
	A074U419	NEMA Type 3R, 3pole/4pole	874	UUT-1
Controller PC80 [Cummins]	A072B985	Bypass Switch Controller	2.6	UUT-1, UUT-2
Cable Pull Box [Cummins]	A073G049	C-Cable pull box	250	UUT-2
	A074V997	D&E Cable pull box	336	UUT-1
Transfer Switch [Cummins]	A076G064	C frame, 3pole, 480V	195	UUT-2
	A072N929	C frame, 3pole, 208v	195	Interpolated
	A076G234	C frame, 3pole, 240V	195	Interpolated
	A076G086	C frame, 3pole, 380-440V	195	Interpolated
	A073G068	C frame, 3pole, 600V	195	Interpolated
	A072N004	C frame, 4pole, 208v	213	Interpolated
	A076G235	C frame, 4pole, 240V	213	Interpolated
	A076G605	C frame, 4pole, 480V	213	Interpolated
	A076G233	C frame, 4pole, 380-440V	213	Interpolated
	A073G069	C frame, 4pole, 600V	213	Interpolated
	A072N613	D frame, 3pole, 208v	235	Interpolated
	A076G083	D frame, 3pole, 240V	235	Interpolated
	A076G062	D frame, 3pole, 480V	235	Interpolated
	A076G081	D frame, 3pole, 380-440V	235	Interpolated
	A076G066	D frame, 3pole, 600V	235	Interpolated
	A072M750	D frame, 4pole, 208v	266	Interpolated
	A076G084	D frame, 4pole, 240V	266	Interpolated
	A076G063	D frame, 4pole, 480V	266	Interpolated
	A076G082	D frame, 4pole, 380-440V	266	Interpolated
	A076G067	D frame, 4pole, 600V	266	Interpolated
	A074L356	E frame, 3pole, 208v	302	Interpolated
	A076G246	E frame, 3pole, 240V	302	Interpolated
	A076G240	E frame, 3pole, 480V	302	Interpolated
	A076G244	E frame, 3pole, 380-440V	302	Interpolated
	A076G242	E frame, 3pole, 600V	302	Interpolated
	A076G247	E frame, 4pole, 240V	330	Interpolated
	A076G241	E frame, 4pole, 480V	330	Interpolated
	A076G245	E frame, 4pole, 380-440V	330	Interpolated
	A076G243	E frame, 4pole, 600V	330	Interpolated
	A073W468	E frame, 4pole, 208v	330	UUT-1
	A074H341	C frame, 3pole	223	UUT-2
Bypass Switch [Cummins]	A072M996	C frame, 4pole	237	Interpolated
	A074E140	D frame, 3pole	255	Interpolated
	A072M541	D frame, 4pole	271	Interpolated
	A074L070	E frame, 3pole	300	Interpolated
	A073W810	E frame, 4pole	392	UUT-1
Solid Neutral [Cummins]	A077B215	C-frame Neutral pole accessory (3pole) for Mechanical lugs	6.2	UUT-2
	A077B216	C-frame Neutral pole accessory (3pole) for Compression lugs	7.1	Interpolated
	A077B213	D-frame Neutral pole accessory (3pole) for Mechanical lugs	9.2	Interpolated
	A077B214	D-frame Neutral pole accessory (3pole) for Compression lugs	11.3	Interpolated
	A077J531	E-frame Neutral pole accessory (3pole) for Mechanical lugs	12.7	Interpolated
	A077J601	E-frame Neutral pole accessory (3pole) for Compression lugs	15.6	UUT-1
Transformer [Hammond HPS]	SP50SR Cummins PN: A066H728	IPRB Board Transformer Prim Volt: 208,416V; Secondary Volt: 12, 24V	1.8	UUT-1
	SP50KHR Cummins PN: A072W081	IPRB Board Transformer Prim Volt: 380V; Secondary Volt: 12, 24V control transformer	1.8	Interpolated
	SP50AR Cummins PN: A066H726	IPRB Board Transformer Prim Volt: 600V; Secondary Volt: 12, 24V	1.9	Interpolated
	SP50QR Cummins PN: A066H730	IPRB Board Transformer Prim Volt: 440, 480V; Secondary Volt: 12, 24V	2.0	UUT-2
	SP150SP Cummins PN: A075G024	Power Supply Transformer Primary side voltage 208/416V Secondary Voltage 120V,240V	4	Interpolated
	SP150ACP Cummins PN: A065S757	Power Quality Meter (PM 8000) Transformer Power Supply Transformer Primary side voltage 600V Secondary Voltage 120V,240V	4	UUT-2
	AP150KHP Cummins PN: A075G025	Power Supply Transformer Primary side voltage 380/347V Secondary Voltage 120V,240V	4.4	UUT-1
	SP500ACP Cummins PN: A065S758	Heater transformer INPUT voltage: 600V,480V OUTPUT 120/240	11	UUT-2
	SP500SP Cummins PN: A071U613	Heater Transformer Input Voltage: 416/400/380/208/200/190 Output Voltage: 120/240	11	UUT-1
	SP500KHP Cummins PN: A071U614	Heater Transformer Input Voltage: 380/347 Output Voltage: 120/240	12	Extrapolated

Table 3 - Certified Subcomponents Continued

Component [MFR]	Part Number	Notes	Weight [lbs]	UUT
Transformer [Micron Industries]	B010-3514-3 Cummins PN: A026L598 (qty 2) 0315-1746-01	Protective Relay Voltage Transformer Primary Voltage 208V, 240V, 480V Secondary Voltage 120 V	1	UUT-2
	B010-3515-3 Cummins PN: A026L601 (qty 2) 0315-1746-02	Protective Relay Voltage Transformer Primary Voltage 347V, 380V, 416V Secondary Voltage 120 V	1	Interpolated
	B010-3516-3 Cummins PN: A026L602 (qty 2) 0315-1746-03	Protective Relay Voltage Transformer Primary Voltage 600V Secondary Voltage 120 V	1	UUT-1
	8025-0582-3 Cummins PN: 0315-0693-03	Protective Relay Power Transformer Primary Voltage 347V, 380V, 416V AC Secondary Voltage 24V AC	2	UUT-1
	8025-0583-3 Cummins PN: 0315-0693-04	Protective Relay Power Transformer Primary Voltage 600V AC Secondary Voltage 24V AC	2	Interpolated
	8025-0581-3 Cummins PN: 0315-0693-02	Protective Relay Power Transformer Primary Voltage 208V, 240V, 480V AC Secondary Voltage 24V AC	2	UUT-2
Power Supply [MEAN WELL]	EDR-120-12 Cummins PN: A074G331	12V power supply	1	UUT-2
	EDR-120-24 Cummins PN: A055V946	24V power supply	1	UUT-2
Power Supply [TDK-Lambda]	DPP120-12-1 Cummins PN: A074G331	12V power supply	2	UUT-1
	DPP120-24-1 Cummins PN: A055V946	24V power supply	2	UUT-1
Anti Condensation Heater [Stego]	01160.0-00 Cummins PN: A056Z695	Thermostat for heater	<1	UUT-1, UUT-2
	02811.0-00 Cummins PN: A062U239	Heater 250W 230V	1	UUT-1, UUT-2
Power Quality Meter [Ferraz Shawmut]	USCC1 Cummins PN: A058R891	Fuse Holder	<1	UUT-1, UUT-2
Power Quality Meter [Schneider]	METSEPN8244 Cummins PN: A056K898	Display for Power quality meter	<1	UUT-1, UUT-2
	METSEPN8244 Cummins PN: A056K898	Power Logic Meter (PM8000)	1	UUT-1, UUT-2
Power Quality Meter [VENTURE INTERNATIONAL PTE LTD]	Cummins PN: A056B174	Control Card for PM800 Energy Monitoring	<1	UUT-1, UUT-2
Power Quality Meter [Celestica]	Cummins PN: A053N529	Control Card for PC90 Energy Monitoring	<1	UUT-1
Surge Suppressor [Schneider Electric]	Included with below P/INs	Display for Surge Device	<1	UUT-1, UUT-2
	IMA12 Cummins PN: A077Y785	120V, 240V	8	Interpolated
	IMA22 Cummins PN: A077Y786	208V, 220V - WYE	8	Interpolated
	IMA32 Cummins PN: A077Y788	240 V - HL-DELTA	8	Interpolated
	IMA42 Cummins PN: A077Y789	480V, 415V, 400V, 380V - WYE	8	2X UUT-2
	IMA52 Cummins PN: A077Y790	480V - HRG-DELTA	8	Interpolated
	IMA62 Cummins PN: A077Y792	240 V- DELTA	8	Interpolated
	IMA92 Cummins PN: A077Y795	600V HRG-DELTA	8	Interpolated
	IMA82 Cummins PN: A077Y794	600V WYE	8	2X UUT-1
	78PJ03A-011 Cummins PN: 0307-2981-02	Lockout Relay (86 LOR)	8	UUT-1, UUT-2
Protective Relays [Electroswitch Co.]	(SEL 751) 751002b0x0x0x851c00 Cummins PN: A066H357	Protective Relay	6	UUT-1, UUT-2
Terminal Block [Phoenix Contact]	3022276 Cummins PN: a030v282	Terminal Block	<0.1	UUT-1, UUT-2
	3044076 Cummins PN: a030v678	Terminal Block	<0.1	UUT-1, UUT-2
Bridge Rectifier [Vishay]	GBPC-3508-E4 Cummins PN: 0305-0653	Bridge rectifier	<0.1	UUT-1, UUT-2
Timer Relay 62PL [Time Mark Corporation]	360-L0.1SEC Cummins PN: 0307-3135	Timer Relay 62PL	0.3	UUT-1, UUT-2
PCB (IPRB) [Cummins]	A077D269/A065L608	Source indication PCB branching feedback signals for control & interlock operations	<0.4	UUT-1, UUT-2
Power Cable Lugs [Cummins/ILSCO]	PB2-600-2N Cummins PN: A067X276	C-frame mechanical lug	1	UUT-2
	PB4-750 Cummins PN: 0332-3036	D-frame mechanical lug	1	Interpolated
	PB4-750 Cummins PN: 0332-3036	E-frame mechanical lug	1	UUT-1
	PB4-750 Cummins PN: 0332-3036	E-frame mechanical lug	1	UUT-1
Power Cable Lugs [BURNDY]	YA39A5 Cummins PN: A058X606	750MCM compression lug	<1	Extrapolated
	YA29A3 Cummins PN: A065A291	250MCM compression lug	<1	Extrapolated
	YA30A3 Cummins PN: A065A292	300MCM compression lug	<1	Extrapolated
	YA31A3 Cummins PN: A065A294	350MCM compression lug	<1	Extrapolated
	YA32A3 Cummins PN: A065A295	400MCM compression lug	<1	Extrapolated
	YA34A3 Cummins PN: A065A296	500MCM compression lug	<1	Extrapolated
	YA36A3 Cummins PN: A065A297/A060T181	600MCM compression lug	<1	UUT-1, UUT-2
	YA36A3 Cummins PN: A065A297/A060T181	600MCM compression lug	<1	UUT-1, UUT-2
Lifting Table Mechanism [Cummins]	A073L640	C - frame scissors table	192	UUT-1
	A073L630	D - frame scissors table	192	Interpolated
Bypass Handle Support Brackets Assembly [Cummins]	A073Y401	E - frame scissors table	195	UUT-2
	A075N980	C - Frame Support Bracket	<1	UUT-1
	A073F437	D & E - Frame Support bracket	1	UUT-2
	A075K871	Bypass Linkage Assembly	10	UUT-1, UUT-2
	A078V990	Bypass Handle Housing	15	UUT-1, UUT-2
	A074U450	MTS Handle Mechanism	29	UUT-1, UUT-2
Indicator Mechanisms [Cummins]	A074Z000	Indicator Assembly (MTS state)	1	UUT-1, UUT-2
	A078M114	MTS/ATS push button interlock	1	UUT-1, UUT-2
	A079C753	Indicator bracket C frame	1	UUT-2
	A079C754	Indicator bracket D frame	1	Interpolated
	A079C182	Indicator bracket E frame	2	UUT-1
	A074U446	Indicator assembly (ATS position)	5	UUT-1, UUT-2
Shutter Mechanism [Cummins]	A068M966	C -Frame shutter	15	UUT-2
	A067Z912	D -Frame shutter	15	Interpolated
	A073X846	E -Frame shutter	16	UUT-1

Table 3 - Certified Subcomponents Continued

Component [MFR]	Part Number	Notes	Weight [lbs]	UUT
MTS Floor Assembly [Cummins]	A079C650	ATS Trip Bracket	1	UUT-1, UUT-2
	A071Z198	Breakout connector	4	UUT-1, UUT-2
	A072E953	ATS Guide Bracket	5	UUT-1, UUT-2
	A077M054	ATS Guide Bracket	6	UUT-1, UUT-2
	A075K479 & A078V350	MTS mounting channel C frame	7	UUT-2
	A073X299 & A078V358	MTS mounting channel E frame	13	UUT-1
	A073E841 & A078V353	MTS mounting support for D frame	34	Interpolated
	A075K489	C-frame GPO-3 member Assembly	47	UUT-2
	A074Z431	D-frame GPO-3 member Assembly	65	Interpolated
	A074V718	E-frame GPO-3 member Assembly	72	UUT-1
MTS Support Assembly [Cummins]	A064B756	Insulator	<0.4	UUT-1, UUT-2
	A072D127	MTS bracket support for C frame	4	UUT-2
	A067J089	MTS bracket support for D frame	4	Interpolated
	A073X838	MTS bracket support for E frame	5	UUT-1
	A074E443	Transformer cover	1	UUT-1, UUT-2
Mounting Plates and Brackets [Cummins]	A073Z850	Microswitch assembly (ATS Position Sensing)	1	UUT-1, UUT-2
	A078K202	Protective Relay door mounting plate (SEL & 86 LOR)	2	UUT-1, UUT-2
	A078K203	Protective Relay Mounting plate (86LOR)	3	UUT-1, UUT-2
	A076L810	SPD mounting Plate	4	UUT-1, UUT-2
	A076L810	SPD display mounting plate (SPD1+SPD2+PM8000)	4	UUT-1, UUT-2
	A076L812	SPD display mounting plate (SPD1 + SPD2)	4	UUT-1, UUT-2
	A076L814	SPD display mounting plate (SPD1+PM8000)	4	UUT-1, UUT-2
	A076L813	SPD display mounting plate (SPD1)	4	UUT-1, UUT-2
	A073R166	SPD display mounting plate (PM8000)	4	UUT-1, UUT-2
	A076L809	SPD display mounting plate (no option)	4	UUT-1, UUT-2
	A074e441	Protective relay mounting plate	5	UUT-1, UUT-2
	A067V591	TB1 mounting plate	9	UUT-1, UUT-2
	A067V592	Transformer mounting plate	9	UUT-1, UUT-2
	A073R126	SPD mounting plate	12	UUT-1, UUT-2
	A076V767	C Grounding lug kit	2	UUT-2
Ground Lug Assembly [Cummins]	A076E874	D & E Grounding kit	3	UUT-1
Selector Switch [American Solenoid]	CA4C65150 Cummins PN: 0308 0993	Selector Switch	<1	UUT-1, UUT-2
Motor Disconnect Switch [Schneider Electric]	VBDN20 Cummins PN: A056K861	Motor disconnect switch	<1	UUT-1, UUT-2
Service Port [Bulgin]	px0844/B/0m50/b Cummins PN: A056K865	Service Port	<1	UUT-1, UUT-2
VDB Board Installation [Cummins]	A076E824	VDB board installation	1.1	UUT-1, UUT-2
VDB Board [Cummins]	A072B989	VDB board	<0.2	UUT-1, UUT-2
Din Mounting Relay [Phoenix Contact]	2966906 Cummins PN: A067E084	Din mounting relay	<1	UUT-1, UUT-2
Microswitch [C & K Components]	TFS01SA2040C Cummins PN: A054K487	Microswitch	<0.1	UUT-1, UUT-2

BY: Mohammad Karim

DATE: 09/11/2026

UNIT UNDER TEST (UUT)

Summary Sheet

UUT-1

Test Report (TR): 29741-2601; Test Lab: DCL; Reporting: DCL; Test Dates: 5/12/26 – 5/13/26

Model Line	Model Number	Manufacturer
CBT Transfer Switches	CBTE8	Cummins

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Controller PC80: A072B985, Cummins; Cable Pull Box: A074V997, Cummins; Transfer Switch: A073W468, Cummins; Bypass Switch: A073W810, Cummins; Solid Neutral: A077J601, Cummins; Transformer: SP50SR, AP150KHP, SP500SP, Hammond HPS; Transformer: B010-3516-3, 8025-0582-3, Micron Industries; Power Supply: DPP120-12-1, DPP120-24-1, TDK-Lambda; Surge Suppressor: IMA82, Schneider Electric; Protective Relays: 78PJ03A-011, Electroschwitch Co.; Protective Relays: (SEL 751) 751002b0x0x851c00, Schweitzer Electric; Lifting Table Mechanism: A073L640, Cummins; Bypass Handle Support Brackets Assembly: A075N980, A075K871, A078V990, A074U450, Cummins; Indicator Mechanisms: A074Z000, A078M114, A079C182, A074U446, Cummins; Shutter Mechanism: A073X846, Cummins; MTS Floor Assembly: A079C650, A071Z198, A072E953, A077M054, A073X299 & A078V358, A074V718, Cummins; MTS Support Assembly: A064B756, A073X838, Cummins; Mounting Plates and Brackets: A074E443, A073Z850, A078K202, A078K203, A076L810, A076L810, A076L812, A076L814, A076L813, A073R166, A076L809, A074e441, A067V591, A067V592, A073R126, Cummins; Ground Lugs Assembly: A076E874, Cummins; Power Quality Meter: USCC1, Ferraz Shawmut; Power Quality Meter: METSEPN8244, METSEPN8244, Schnieder; Power Quality Meter: A056B174, VENTURE INTERNATIONAL PTE LTD; Power Quality Meter: A053N529, Celestica; Terminal Block: 3022276, 3044076, Phoenix Contact; Bridge Rectifier: GBPC-3508-E4, Vishay; Timer Relay 62PL: 360-L-0.1SEC, Time Mark Corporation; PCB (IPRB): A077D269/A065L608, Cummins; Power Cable Lugs: PB4-750, Cummins/ILSCO; Power Cable Lugs: YA36A3, BURNDY; Selector Switch: CA4C65150, American Solenoid; Motor Disconnect Switch, VBDN20, Schneider Electric; Service Port, px0844/B/0m50/b, Bulgin; VDB Board Installation, A076E824, Cummins; VDB Board, A072B989, Cummins; Din Mounting Relay, 2966906, Pheonix Contact; Microswitch, TFS01SA2040C, C & K Components

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
2,440	78.5	40.8	90.5	12.0	14.3	12.0

Building Code	Test Criteria	UUT Highest Passed Seismic Run Information								
		S _{DS}	z/h	H _f	R _μ	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2025	ICC-ES AC156-24	2.00	1.0	3.5	1.3	1.5	3.20	2.15	-	-
		2.50	0.0	1.0	1.0	1.5	-	-	1.67	0.67

Test Mounting Details

UUT-1 was rigidly mounted to the shake table using (4) 1/2" diameter Grade 5 bolts.



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

UNIT UNDER TEST (UUT)

Summary Sheet

UUT-2

Test Report (TR): 29741-2601; Test Lab: DCL; Reporting: DCL; Test Dates: 5/12/26 – 5/13/26

Model Line	Model Number	Manufacturer
CBT Transfer Switches	CBTC8	Cummins

Product Construction Summary

Carbon Steel Enclosure

Options / Subcomponent Summary

Controller PC80: A072B985, Cummins; Cable Pull Box: A073G049, Cummins; Transfer Switch: A076G064, Cummins; Bypass Switch: A074H341, Cummins; Solid Neutral: A077B215, Cummins; Transformer: SP50QR, SP150ACP, SP500ACP, Hammond HPS; Transformer: B010-3514-3, 8025-0581-3, Micron Industries; Power Supply: EDR-120-12, EDR-120-24, MEAN WELL; Surge Suppressor: IMA42, Schneider Electric; Protective Relays: 78PJ03A-011, Electrosch Co.; Protective Relays: (SEL 751) 751002b0x0x851c00, Schweitzer Electric; Lifting Table Mechanism: A073Y401, Cummins; Bypass Handle Support Brackets Assembly: A073F437, A075K871, A078V990, A074U450, Cummins; Indicator Mechanisms: A074Z000, A078M114, A079C753, A074U446, Cummins; Shutter Mechanism: A068M966, Cummins; MTS Floor Assembly: A079C650, A071Z198, A072E953, A077M054, A075K479 & A078V350, A075K489, Cummins; MTS Support Assembly: A064B756, A072D127, Cummins; Mounting Plates and Brackets: A074E443, A073Z850, A078K202, A078K203, A076L810, A076L810, A076L812, A076L814, A076L813, A073R166, A076L809, A074e441, A067V591, A067V592, A073R126, Cummins; Ground Lugs Assembly: A076V767, Cummins; Power Quality Meter: USCC1, Ferraz Shawmut; Power Quality Meter: METSEPN8244, METSEPN8244, Schnieder; Power Quality Meter: A056B174, VENTURE INTERNATIONAL PTE LTD; Terminal Block: 3022276, 3044076, Phoenix Contact; Bridge Rectifier: GBPC-3508-E4, Vishay; Timer Relay 62PL: 360-L-0.1SEC, Time Mark Corporation; PCB (IPRB): A077D269/A065L608, Cummins; Power Cable Lugs: PB2-600-2N, Cummins/ILSCO; Power Cable Lugs: YA36A3, BURNDY; Selector Switch: CA4C65150, American Solenoid; Motor Disconnect Switch, VBDN20, Schneider Electric; Service Port, px0844/B/0m50/b, Bulgin; VDB Board Installation, A076E824, Cummins; VDB Board, A072B989, Cummins; Din Mounting Relay, 2966906, Pheonix Contact; Microswitch, TFS01SA2040C, C & K Components

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
1,820	53.5	40.8	84.3	15.3	12.5	>33.3

Building Code	Test Criteria	UUT Highest Passed Seismic Run Information								
		S _{DS}	z/h	H _f	R _μ	I _p	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2025	ICC-ES AC156-24	2.00	1.0	3.5	1.3	1.5	3.20	2.40	-	-
		2.50	0.0	1.0	1.0	1.5	-	-	1.68	0.68

Test Mounting Details

UUT-2 was rigidly mounted to the shake table using (4) 1/2" diameter Grade 5 bolts.



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