



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-0514

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Rehlko – Discovery Energy, LLC.

Manufacturer's Technical Representative: JoAnn Mueller

Mailing Address: N7650 County Road LS, Mosel, WI 53083

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Product Information

Product Name: Rehlko Transfer Switches

Product Model Number(s): Standard, Closed, and Programmed Transition Automatic Transfer Switches

Product Category: Emergency and Standby Power Systems

Product Sub-Category: Automatic Transfer Switches

General Description: Cabinets are powder-coated carbon steel, NEMA 1 and NEMA 3R rating. Units contain controllers, switches, and accessories.

Mounting Description: Base/Wall Mounted Rigid

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@thevmcgroup.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: Kelly Laplace

Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431

Telephone: (775) 358-5085 Email: Kelly@shaketest.com

Company Name: UNIVERSITY OF CALIFORNIA, BERKELEY (PEER)

Contact Person: Amarnath Kasalanati

Mailing Address: 325 Davis Hall, Berkeley CA 94720-1729

Telephone: (510) 642-3437 Email: Amarnath1@berkeley.edu

Company Name: WYLE LABORATORIES

Contact Person: Don Smith

Mailing Address: 7800 Highway 20 West, Huntsville AL 35806

Telephone: (256) 837-4411 Email: _____



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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), $g =$ 1.34 (A Rig-V), $g =$.54

SDS (Design spectral response acceleration at short period, g) = 2.0

H_f (Force amplification height factor) = 3.5

R_u (Structure ductility reduction factor) = 1.3

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 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-0514

BY: Mohammad Karim

DATE: 09/11/2026

Table 1 - Certified Products - KC and KS Model Automatic Transfer Switches

Standard Transition: **KCS, KSS**

Closed Transition: **KCC**

Programmed Transition: **KCP**

Model	ATS MFR	Amps	Voltage	Switch Type	Encl. MFR	Encl. Const.	Max Dimensions - Type 1 [in]			Max Wt. Type 1 [lb]	Max Dimensions - Type 3R [in]			Max Wt. Type 3R [lb]	Mount	UUT
							Height	Width	Depth		Height	Width	Depth			
KCS / KSS	Rehiko	30	480	2-Pole	Rehiko	Carbon Steel Welded	31.1	18.0	12.4	62	-	-	-	-	Rigid Wall	UUT 1
		30-200	208-600	2-Pole			31.1	18.0	12.4	62	31.1	18.0	12.4 ⁽¹⁾	67		Interpolated
				3-Pole			31.1	18.0	12.4	65	31.1	18.0	12.4 ⁽¹⁾	65		
				4-Pole			31.1	18.0	12.4	68	31.1	18.0	12.4 ⁽¹⁾	68		
KCS / KSS	Rehiko	230 (208-480V)	208-480	2-Pole			48.1	22.0	14.3	115	48.1	22.0	14.3 ⁽¹⁾	115		
				3-Pole			48.1	22.0	14.3	123	48.1	22.0	14.3 ⁽¹⁾	123		
				4-Pole			48.1	22.0	14.3	131	48.1	22.0	14.3 ⁽¹⁾	123		
		230	480	4-Pole			-	-	-	-	48.1	22.0	14.3 ⁽¹⁾	123		UUT 2
KCS / KSS	Rehiko	600	480	2-Pole			67.0	24.0	20.2	265	-	-	-	-	Rigid Base	UUT 3
		230 (600V)	600	2-Pole			67.0	24.0	20.2	395	67.0	24.0	20.2 ⁽¹⁾	395		Interpolated
				3-Pole			67.0	24.0	20.2	403	67.0	24.0	20.2 ⁽¹⁾	403		
				4-Pole			67.0	24.0	20.2	414	67.0	24.0	20.2 ⁽¹⁾	414		
KCS / KSS	Rehiko	260-600	208-600	2-Pole			67.0	24.0	20.2	395	67.0	24.0	20.2 ⁽¹⁾	395		
				3-Pole			67.0	24.0	20.2	403	67.0	24.0	20.2 ⁽¹⁾	403		
				4-Pole			67.0	24.0	20.2	414	67.0	24.0	20.2 ⁽¹⁾	414		
KCP / KCC	Rehiko	150-600	208-600	2-Pole			67.0	24.0	20.2	395	67.0	24.0	20.2 ⁽¹⁾	395		
				3-Pole			67.0	24.0	20.2	403	67.0	24.0	20.2 ⁽¹⁾	403		
				4-Pole			67.0	24.0	20.2	414	67.0	24.0	20.2 ⁽¹⁾	414		
KCS / KCP / KCC / KSS	Rehiko	800-1000	208-600	2-Pole			76.1	34.0	20.3	485	76.1	34.0	20.3 ⁽¹⁾	485		
				3-Pole			76.1	34.0	20.3	510	76.1	34.0	20.3 ⁽¹⁾	510		
				4-Pole			76.1	34.0	20.3	525	76.1	34.0	20.3 ⁽¹⁾	525		
KCS		1000	480	4-Pole			-	-	-	-	76.1	34.0	20.3 ⁽¹⁾	550		UUT 4
KCP	Rehiko	1200	480	3-Pole			90.0	37.9	27.1	770	-	-	-	-		UUT 5
KCS / KCP / KCC / KSS	Rehiko	1200	208-600	3-Pole	Rehiko	Carbon Steel Assembled	90.0	37.9	27.1	1,020	90.0	37.0	25.2 ⁽²⁾	1,020	Rigid Base	Interpolated
				4-Pole			90.0	37.9	27.1	1,070	90.0	37.0	25.2 ⁽²⁾	1,070		
KCS / KCP / KCC	Rehiko	1600-2000	208-600	3-Pole			90.0	37.9	48.0	1,175	90.0	37.0	50.4 ⁽²⁾	1,175		
				4-Pole			90.0	37.9	48.0	1,225	90.0	37.0	50.4 ⁽²⁾	1,225		
KCS / KCP / KCC	Rehiko	1600-2000F	208-600	3-Pole			90.0	37.9	27.1	1,175	90.0	37.0	31.2 ⁽²⁾	1,175		
				4-Pole			90.0	37.9	27.1	1,225	90.0	37.0	31.2 ⁽²⁾	1,225		
KCS / KCP / KCC	Rehiko	2600-3000	208-600	3-Pole			90.0	37.9	60.0	1,430	90.0	37.0	62.4 ⁽²⁾	1,430		
				4-Pole			90.0	37.9	60.0	1,475	90.0	37.0	62.4 ⁽²⁾	1,475		
KCP	Rehiko	3000	480	4-Pole			90.0	37.9	60.0	1,475	-	-	-	-		UUT 6
KCS / KCP / KCC	Rehiko / ASCO ₃	4000	208-600	3-Pole	ASCO	Carbon Steel Assembled	91.0	60.0	72.3	2,149	99.6	63.2	90.9	3,165	Rigid Base	Extrapolated
				4-Pole			91.0	60.0	72.3	2,328	99.6	63.2	90.9	3,357		
G7ADTBB34000R5DC	ASCO	4000	480	4-Pole			91.0	63.0	96.0	6,435	-	-	-	-		UUT 10
G7ASLBB34000N5XM	ASCO	4000	480	4-Pole			-	-	-	-	100.0	63.0	115.0	7,250		UUT 9

Notes for KC and KS Model

1. Nema 3R logic covers extend 2.1"

2. Vents extend 3"

3. Rehiko 4000A ATSs utilize ASCO enclosures and mechanisms

Table 2 - Certified Products - KB Model Bypass Automatic Transfer Switches

Standard Transition: **KBS**

Closed Transition: **KBC**

Programmed Transition: **KBP**

Model	ATS MFR	Amps	Voltage	Switch Type	Encl. MFR	Encl. Const.	Max Dimensions - Type 1 [in]			Max Wt. Type 1 [lb]	Max Dimensions - Type 3R [in]			Max Wt. Type 3R [lb]	Mount	UUT
							Height	Width	Depth		Height	Width	Depth			
KBS / KBP / KBC	Rehiko	150-260	208-600	2-Pole	ASCO	Carbon Steel Assembled	85.1	34.0	28.0	950	95.2	49.1	36.6	1,560	Rigid Base	Extrapolated
				3-Pole			85.1	34.0	28.0	950	95.2	49.1	36.6	1,560		
				4-Pole			85.1	34.0	28.0	950	95.2	49.1	36.6	1,560		
KBS / KBP / KBC	Rehiko	150-600	208-600	2-Pole			85.1	46.0	28.0	950	95.2	49.1	36.6	1,560		
				3-Pole			85.1	46.0	28.0	950	95.2	49.1	36.6	1,560		
				4-Pole			85.1	46.0	28.0	950	95.2	49.1	36.6	1,560		
J7ACTBB30600N5XM	ASCO	600	480	4-Pole			-	-	-	-	95.0	49.0	37.0	1,726		UUT 7
KBS / KBP / KBC	Rehiko	800 F	208-600	3-Pole			91.0	38.0	32.0	1,400	N/A ⁽¹⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	Rigid Base	Interpolated
				4-Pole			91.0	38.0	32.0	1,400	N/A ⁽¹⁾	N/A ⁽¹⁾	N/A ⁽¹⁾	N/A ⁽¹⁾		
KBS / KBP / KBC	Rehiko	800-1200S	208-600	3-Pole			91.0	38.0	48.0	1,560	95.4	41.0	62.0	2,200		
				4-Pole			91.0	38.0	48.0	1,560	95.4	41.0	62.0	2,200		
KBS / KBP / KBC	Rehiko	1600-2000	208-600	3-Pole			91.0	38.0	60.0	2,360	95.4	41.0	74.0	2,675		
				4-Pole			91.0	38.0	60.0	2,540	95.4	41.0	74.0	2,790		
KBS / KBP / KBC	Rehiko	2600-3000	208-600	3-Pole			91.0	38.0	72.0	2,730	95.4	40.0	86.0	3,270		
				4-Pole			91.0	38.0	72.0	3,360	95.4	40.0	86.0	3,558		
KBS / KBP / KBC	Rehiko	4000	208-600	3-Pole			91.0	60.0	96.0	4,650	99.6	63.0	114.9	6,350		
				4-Pole			91.0	60.0	96.0	5,148	99.6	63.0	114.9	6,500		
G7ADTBB34000R5DC	ASCO	4000	480	4-Pole			91.0	63.0	96.0	6,435	-	-	-	-		UUT 10
G7ASLBB34000N5XM	ASCO	4000	480	4-Pole			-	-	-	-	100.0	63.0	115.0	7,250		UUT 9

Notes for KB Model

1. N/A signifies that the product is not offered

2. Rehiko ATSS use ASCO enclosures and Mechanisms

Table 3 - Certified Subcomponents: Enclosures (KC, KS, & KB Models)

Enclosure Options						Max Weight [lb]	Mount	UUT
Type	Amp Range	Construction	Material	Thickness	MFR			
NEMA 1	30	Welded	Carbon Steel	See Note 1	Rehlko	95	Rigid Wall	1
	30-230					95		Interpolated
NEMA 3R	30-230					95		
	230					95		2
NEMA 1	260-600	Welded	Carbon Steel	12 gauge	Rehlko	164	Rigid Base	Extrapolated
	600					164		3, 7
	600-1000					327		Intepolated
	1200	Assembled				551		5
	1200-3000					876		Interpolated
	3000					876		6
	4000					Per NEC/UL		ASCO
	NEMA 3R	260-1000		Welded	12 gauge	Rehlko		164
1000		327					4	
1200-3000		Assembled		327			Interpolated	
4000				Per NEC/UL			ASCO	1,260

Note for Enclosures 1. Thickness varies from 16ga to 12ga based on amperage and NEC/UL code

Table 4 - Certified Subcomponents: Mechanisms

Mechanism					Material	Max Weight [lb]	UUT	Mount
Amps	Volts	Poles	Transition Type	MFR				
30	208-600	2, 3, 4	standard	ASCO	Carbon Steel	23	1	Rigid Wall
70	208-600	2, 3, 4	standard	ASCO		23		
104	208-600	2, 3, 4	standard	ASCO		23		
150	208-600	2, 3, 4	standard, programmed, closed	ASCO		23		
200	208-600	2, 3, 4	standard	ASCO		23		
225	208-600	2, 3, 4	programmed	ASCO		23		
230	208-480	2, 3, 4	standard	ASCO		23	2	
230	600	2, 3, 4	standard	ASCO	Carbon Steel	80	Extrapolated	Rigid Base
260	208-600	2, 3, 4	standard, programmed, closed	ASCO		96		
400	208-600	2, 3, 4	standard, programmed, closed	ASCO		96		
600	208-600	2, 3, 4	standard, programmed, closed	ASCO		103	3, 7	
800	208-600	2, 3, 4	standard, programmed, closed	ASCO		165	Interpolated	
1000	208-600	3, 4	standard, programmed, closed	ASCO		189	4	
1200	208-600	3, 4	standard, programmed, closed	ASCO		189	5	
1600	208-600	3, 4	standard, programmed, closed	ASCO		605	Interpolated	
2000	208-600	3, 4	standard, programmed, closed	ASCO		605		
2600	208-600	3, 4	standard, programmed	ASCO		997		
3000	208-600	3, 4	standard, programmed, closed	ASCO		997		
4000	208-600	3, 4	standard, programmed, closed	ASCO		2465	9, 10	

Table 5 - Certified Subcomponents: Controllers

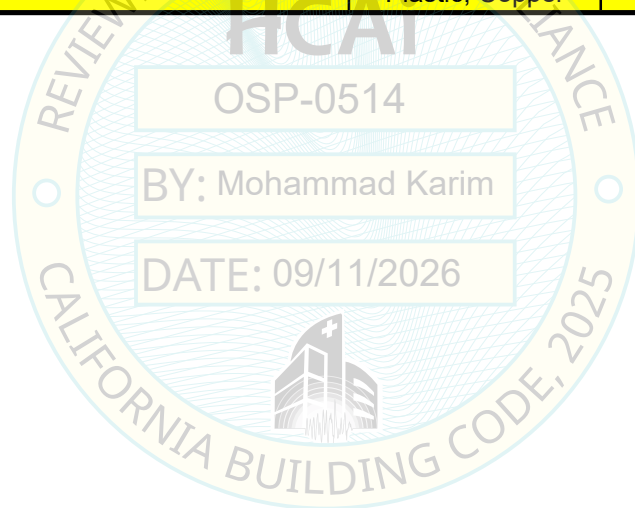
Controller			Material	Notes	Weight [lb]	UUT
Model	Transition Type	MFR				
MPAC 1200	Standard	Rehlko	Plastic	Is a depopulated MPAC 1500 (no Ethernet board)	<10	Extrapolated
MPAC 1500	Standard			-	<10	1, 2
MPAC 1200 w/ Daughter Board	Programmed & Closed	Rehlko	Plastic	Is a depopulated MPAC1500 w/ DB (no Ethernet	<10	Extrapolated
MPAC 1500 w/ Daughter Board	Programmed & Closed			-	<10	3, 4, 5, 6

Table 6a - Certified Subcomponents: Accessories Rigid Wall

Kit	Description	Material	MFR	Weight [lb]	Mount	UUT
I/O Mounting Kit	Bracket and cover to mount the following 4 PCBs	Carbon Steel, Plastic, Copper	Rehlko	2	Rigid Wall	UUT 1
External Battery Supply Module	PCB that provides connection of 12VDC to power the controller for extended time delays, frequent outages, and 3 source systems	Plastic, Copper	Rehlko	0.5	Rigid Wall	UUT 1
Input/Output Module	PCB that provides 2 input/6 outputs	Plastic, Copper	Rehlko	0.5	Rigid Wall	UUT 1
High-Power Input/Output Module	PCB that provides 2 input/3 high power outputs	Plastic, Copper	Rehlko	0.75	Rigid Wall	UUT 1
Controller Disconnect Switch	Switch that interrupts the normal sensing wires from the controller for service	Carbon Steel, Plastic, Copper	Rehlko/ABB	5	Rigid Wall	UUT 2
Ethernet Module	PCB that provides an Ethernet communications plug	Plastic, Copper	Rehlko	0.1	Rigid Wall	UUT 1, UUT 2
Line-to-Neutral Monitoring Kit	Wire leads that bring the neutral sensing signals back to the controller	Copper	Rehlko	0.25	Rigid Wall	UUT 2
Padlockable User Interface Cover	Hinged sheet metal cover over the controller (optional on NEMA 1, standard on 3R)	Carbon Steel	Rehlko	3	Rigid Wall	UUT 2
Supervised Transfer Control Switch	Switch that allows the user to initiate transfers (requires Alarm Module)	Plastic, Copper	Schneider	1	Rigid Wall	UUT 1

Table 6b - Certified Subcomponents: Accessories Rigid Base

Kit	Description	Material	MFR	Weight [lb]	Mount	UUT
Ethernet Module	PCB that provides an Ethernet communications plug	Plastic, Copper	Rehlko	0.1	Rigid Base	UUT 3, UUT 4, UUT 5, UUT 6
Current Sensing Kit	Current Transformers and terminal block to allow the controller to display current	Plastic, Copper	WICC	varies by CT size	Rigid Base	UUT 3, UUT 6
Padlockable User Interface	Hinged sheet metal cover over the controller	Carbon Steel	Rehlko	3	Rigid Base	UUT 4
Digital Meter Kit	Module that displays higher power functions,	Plastic, Copper	Schneider	15	Rigid Base	UUT 3, UUT 6
Heater, Anti-Condensation	Strip heater and hygostat control	Carbon Steel, Aluminum, Plastic	Tempco, Stego	5	Rigid Base	UUT 5
Load Shed Kit	Forced transfer to off (programmed transition switches only)	Carbon Steel, Plastic, Copper	Schneider	25	Rigid Base	UUT 6
Surge Protective Device (SPD)	Transient voltage surge suppression module	Carbon Steel, Plastic, Copper	ABB	8	Rigid Base	UUT 5



UNIT UNDER TEST (UUT)

Summary Sheet

UUT-1

Test Report (TR): VMA-46550-01E; Test Lab: PEER; Test Dates: 3/21/2017

Model Line	Model Number	Manufacturer
KC	KCS (480V, 30A)	Rehiko

Product Construction Summary

Standard Transition ATS with Carbon Steel Enclosure; 30A, 480V; NEMA 1 rating

Options / Subcomponent Summary

Enclosure: NEMA 1, Rehiko, Carbon Steel; Mechanism: 30A, ASCO, Carbon Steel; Controller: MPAC 1500, Rehiko, Plastic; Accessories: I/O Mounting Kit, Rehiko, Carbon Steel, Plastic, Copper; Accessories: External Battery Supply Module, Rehiko, Plastic, Copper; Accessories: Input/Output Module, Rehiko, Plastic, Copper; Accessories: High-Power Input/Output Module, Rehiko, Plastic, Copper; Accessories: Ethernet Module, Rehiko, Plastic, Copper; Accessories: Supervised Transfer Control Switch, Rehiko, Plastic, Copper

UUT Properties

Weight [lbs]		Dimensions [in]						Lowest Nat. Freq. [Hz]		
		Length		Width		Height		F-B	S-S	V
67		12.0		18.0		31.0		N/A	N/A	N/A
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	1.34	0.54
		-	-	-	-	-	-	-	-	-

Test Mounting Details

UUT-1 was mounted directly to the wall fixture using (4) 3/8" diameter Grade 8 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): VMA-46550-01E; Test Lab: PEER; Test Dates: 3/21/2017

Model Line	Model Number	Manufacturer
KC	KCS (480V, 230A)	Rehiko

Product Construction Summary

Standard Transition ATS with Carbon Steel Enclosure; 230A, 480V; NEMA 3R rating

Options / Subcomponent Summary

Enclosure: NEMA 3R, Rehiko, Carbon Steel; Mechanism: 230A, ASCO, Carbon Steel; Controller: MPAC 1500, Rehiko, Plastic; Accessories: Controller Disconnect Switch, Rehiko/ABB, Carbon Steel, Plastic, Copper; Accessories: Ethernet Module, Rehiko, Plastic, Copper; Accessories: Line-to-Neutral Monitoring Kit, Rehiko, Copper; Accessories: Padlockable User Interface Cover, Rehiko, Carbon Steel

UUT Properties

Weight [lbs]		Dimensions [in]					Lowest Nat. Freq. [Hz]			
		Length		Width		Height	F-B	S-S	V	
123		14.0		22.0		48.0	N/A	N/A	N/A	
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	1.34	0.54
		-	-	-	-	-	-	-	-	-

Test Mounting Details

UUT-2 was mounted directly to the wall fixture using (4) 3/8" diameter Grade 8 bolts.



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

UNIT UNDER TEST (UUT)

Summary Sheet

UUT-3

Test Report (TR): VMA-46550-01E; Test Lab: PEER; Test Dates: 3/21/2017

Model Line	Model Number	Manufacturer
KC	KCS (480V, 600A)	Rehiko

Product Construction Summary

Standard Transition ATS with Carbon Steel Enclosure; 600A, 480V; NEMA 1 rating

Options / Subcomponent Summary

Enclosure: NEMA 1, Rehiko, Carbon Steel; Mechanism: 600A, ASCO, Carbon Steel; Controller: MPAC 1500 w/ Daughter Board, Rehiko, Plastic; Accessories: Ethernet Module, Rehiko, Plastic, Copper; Accessories: Current Sensing Kit, WICC, Plastic, Copper

UUT Properties

Weight [lbs]		Dimensions [in]					Lowest Nat. Freq. [Hz]			
		Length		Width		Height	F-B	S-S	V	
265		20.0		24.0		67.0	5.8	7.8	14.0	
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	2.40	1.34	0.54
		-	-	-	-	-	-	-	-	-

Test Mounting Details

UUT-3 was rigidly mounted to the shake table using (4) 5/8" diameter Grade 8 bolts.



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

UNIT UNDER TEST (UUT)

Summary Sheet

UUT-4

Test Report (TR): VMA-46550-01E; Test Lab: PEER; Test Dates: 3/21/2017

Model Line	Model Number	Manufacturer
KC	KCS (480V, 1000A)	Rehiko

Product Construction Summary

Standard Transition ATS with Carbon Steel Enclosure; 1000A, 480V; NEMA 3R rating

Options / Subcomponent Summary

Enclosure: NEMA 3R, Rehiko, Carbon Steel; Mechanism: 1000A, ASCO, Carbon Steel; Controller: MPAC 1500 w/ Daughter Board, Rehiko, Plastic; Accessories: Ethernet Module, Rehiko, Plastic, Copper; Accessories: Padlockable User Interface Cover, Rehiko, Carbon Steel

UUT Properties

Weight [lbs]		Dimensions [in]						Lowest Nat. Freq. [Hz]		
		Length		Width		Height		F-B	S-S	V
550		20.0		34.0		76.0		10.5	7.8	23.5
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	1.34	0.54
		-	-	-	-	-	-	-	-	-

Test Mounting Details

UUT-4 was rigidly mounted to the shake table using (4) 5/8" diameter Grade 8 bolts.



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

UNIT UNDER TEST (UUT)

Summary Sheet

UUT-5

Test Report (TR): VMA-46550-01E; Test Lab: PEER; Test Dates: 3/21/2017

Model Line	Model Number	Manufacturer
KC	KCP (480V, 1200A)	Rehiko

Product Construction Summary

Programmed Transition ATS with Carbon Steel Enclosure; 1200A, 480V; NEMA 1 rating

Options / Subcomponent Summary

Enclosure: NEMA 1, Rehiko, Carbon Steel; Mechanism: 1200A, ASCO, Carbon Steel; Controller: MPAC 1500 w/ Daughter Board, Rehiko, Plastic; Accessories: Ethernet Module, Rehiko, Plastic, Copper; Accessories: Heater, Anti-Condensation, Tempco, Stego, Carbon Steel, Aluminum, Plastic; Accessories: Surge Protective Device (SPD), ABB, Carbon Steel, Plastic, Copper

UUT Properties

Weight [lbs]		Dimensions [in]					Lowest Nat. Freq. [Hz]			
		Length		Width		Height	F-B	S-S	V	
770		27.0		38.0		90.0	9.5	11.0	19.8	
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	1.34	0.54
		-	-	-	-	-	-	-	-	-

Test Mounting Details

UUT-5 was rigidly mounted to the shake table using (4) 3/4" diameter Grade 8 bolts.



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

UNIT UNDER TEST (UUT)

Summary Sheet

UUT-6

Test Report (TR): VMA-46550-01E; Test Lab: PEER; Test Dates: 3/21/2017

Model Line	Model Number	Manufacturer
KC	KCP (480V, 3000A)	Rehiko

Product Construction Summary

Programmed Transition ATS with Carbon Steel Enclosure; 3000A, 480V; NEMA 1 rating

Options / Subcomponent Summary

Enclosure: NEMA 1, Rehiko, Carbon Steel; Mechanism: 3000A, ASCO, Carbon Steel; Controller: MPAC 1500 w/ Daughter Board, Rehiko, Plastic; Accessories: Ethernet Module, Rehiko, Plastic, Copper; Accessories: Current Sensing Kit, WICC, Plastic, Copper; Accessories: Load Shed Kit, Schneider, Carbon Steel, Plastic, Copper

UUT Properties

Weight [lbs]		Dimensions [in]						Lowest Nat. Freq. [Hz]		
		Length		Width		Height		F-B	S-S	V
1,475		60.0		38.0		90.0		9.5	12.0	21.0
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	2.40	1.34	0.54
		-	-	-	-	-	-	-	-	-

Test Mounting Details

UUT-6 was rigidly mounted to the shake table using (4) 3/4" diameter Grade 8 bolts.



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

UNIT UNDER TEST (UUT)

Summary Sheet

UUT-7

Test Report (TR): 58168R10-2; Test Lab: WYLE; Test Dates: 1/31/2021

Model Line	Model Number	Manufacturer
Transfer Switches	J7ACTBB30600N5XM	Rehiko

Product Construction Summary

Carbon steel enclosure with powder-coated finish; 600A, 480V; NEMA 3R rating

Options / Subcomponent Summary

Enclosure: NEMA 1, Rehiko, Carbon Steel; Mechanism: 600A, ASCO, Carbon Steel

UUT Properties

Weight [lbs]		Dimensions [in]					Lowest Nat. Freq. [Hz]			
		Length		Width		Height	F-B	S-S	V	
1,726		37.0		49.0		95.0	8.6	9.5	>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	2.50	1.0	3.5	1.3	1.5	4.00	2.70	1.68	0.68
		-	-	-	-	-	-	-	-	-

Test Mounting Details

UUT-7 was rigidly mounted to the shake table using (8) 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-9

Test Report (TR): 58791R11; Test Lab: WYLE; Test Dates: 11/21/2011

Model Line	Model Number	Manufacturer
Transfer Switches	G7ASLBB34000N5XM	Rehiko

Product Construction Summary

Carbon steel enclosure with powder-coated finish; 4000A, 480V; NEMA 3R rating

Options / Subcomponent Summary

Enclosure: NEMA 3R, ASCO, Carbon Steel; Mechanism: 4000A, ASCO, Carbon Steel

UUT Properties

Weight [lbs]	Dimensions [in]			Lowest Nat. Freq. [Hz]		
	Length	Width	Height	F-B	S-S	V
7,250	114.8	63.0	99.6	7.5	4.2	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	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	2.46	1.0	3.5	1.3	1.5	3.94	2.66	1.65	0.66
		-	-	-	-	-	-	-	-	-

Test Mounting Details

UUT-9 was rigidly mounted to the shake table using (16) 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-10

Test Report (TR): 57674R10-1; Test Lab: WYLE; Test Dates: 5/17/2010

Model Line	Model Number	Manufacturer
Transfer Switches	G7ADTB34000R50C	Rehiko

Product Construction Summary

Carbon steel enclosure with powder-coated finish; 4000A, 480V; NEMA 1 rating

Options / Subcomponent Summary

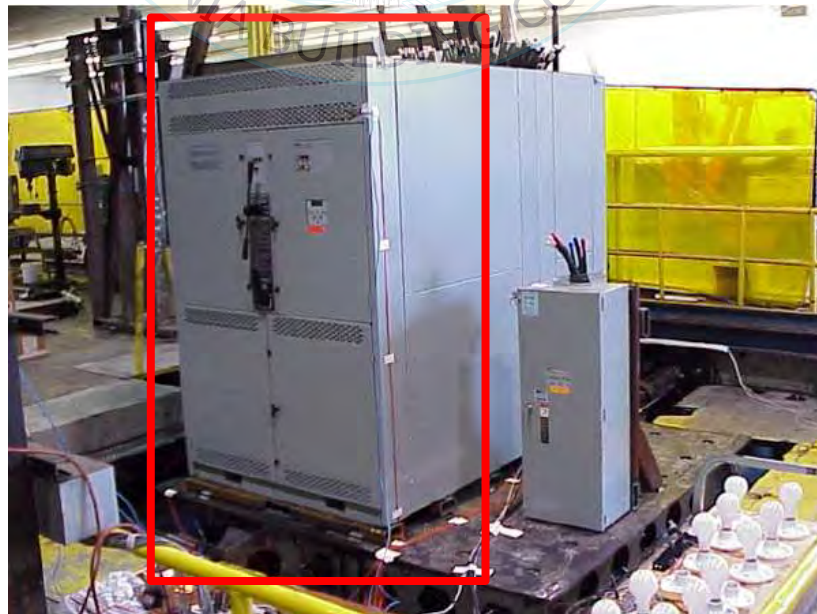
Enclosure: NEMA 1, ASCO, Carbon Steel; Mechanism: 4000A, ASCO, Carbon Steel

UUT Properties

Weight [lbs]		Dimensions [in]					Lowest Nat. Freq. [Hz]			
		Length		Width		Height	F-B	S-S	V	
6,435		96.0		63.0		91.0	9.8	6.1	24.0	
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	2.39	1.0	3.5	1.3	1.5	3.82	2.58	1.60	0.65
		-	-	-	-	-	-	-	-	-

Test Mounting Details

UUT-10 was rigidly mounted to the shake table using (17) 1/2" diameter Grade 5 bolts.



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