

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0096
OSHPD Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Russelectric, Inc.	
Manufacturer's Technical Representative: Elizabeth Stark	
Mailing Address: South Shore Park, Hingham, MA 02043	
Telephone: (781) 749-6000 Email: estark@russe	electric.com
Product Information	MA
Product Name: Emergency and Standby Power Systems	
Product Type: Automatic Transfer Switches	
Product Model Number: See Certified Product List Tables 1 to 3	
General Description: Russelectric RTS-30 Series Automatic & By-Pa- enclosures. The primary function is to transfer fi secondary power source.	ss Transfer Switches installed in NEMA 1 rated rom a primary source to an emergency generator or
Mounting Description: Rigid, See Certified Product Tables/18/2021	1 / / /
Tested Seismic Enhancements: Seismic enhancements made to the t anomalies during the tests shall be in	test units and/or modifications required to address accorporated into the production units.
Applicant Information	CODE
Applicant Company Name: W.E. Gundy & Associates, Inc. UILDING	
Contact Person: Travis Soppe	
Mailing Address: 1199 Shoreline Drive Suite 310, Boise, ID 83702	
Telephone: (208) 342-5989 Email: tsoppe@weg	ai.com
Title: President	

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSHPD



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer R	esponsible for the Engineering and Test Report(s)
Company Name: W.E. GUNDY & ASOCIATES IN	NC.
Name: Travis Soppe	California License Number: S6115
Mailing Address: P.O. Box 9121, Boise, ID 83707	7
Telephone: (208) 342-5989	Email: tsoppe@wegai.com
Certification Method	
GR-63-Core X ICC-ES AC156	☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3
Other (Please Specify):	
	-OR CODE CO
Testing Laboratory	DECOMP
Company Name: CLARK TESTING LABORATO	RY, INC. SHDD
Contact Person: Devon Lohr	
Mailing Address: 1801 Route 51 South, Jeffersor	h Hills PA 15025
Telephone: (412) 387-1027	Email: dlohr@clarktesting.com
Company Name: WYLE LABORATIORIES	
	DATE: 05/18/2021
Mailing Address: 7800 Highway 20 West, Huntsv	ville AL 35806
Telephone: (256) 837-4411	Email: Don.smith@wyle.com
	NIA BUILDING COV





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design Basis of Equipment or Components	(Fp/Wp) = Multiple, see attachments
SDS (Design spectral response accele	eration at short period, g) = ATS Floor Units = 1.2, ATS Wall and Bypass Floor Units = 2.0
ap (Amplification factor) =	2.5
Rp (Response modification factor) =	6.0
Ω_0 (System overstrength factor) =	2.0
Ip (Importance factor) =	1.5
z/h (Height ratio factor) =	1
Natural frequencies (Hz) =	Multiple, see attachments
Overall dimensions and weight =	Multiple, see attachments
	ENE OSHPD TT
OSHPD Approval (For Office Use Only) - Approval Expires on 12/31/2025
Date: <u>5/18/2021</u>	
Name: Mohammad Aliaari	BY: Mohammad Aliaari Title: Senior Structural Engineer
Special Seismic Certification Valid U <mark>p to: S</mark> t	os (g) = <u>See Above</u> z/h = <u>1</u>
Condition of Approval (if applicable):	DATE: 05/18/2021
CP	TORNIA BUILDING CODE: 20

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSHPD

RUSSELECTRIC INC CERT	C. AUTO TIFIED P						SWITC	Η	WEGAI W.E. GUNDY & ASSOCIATES, INC. BTRUCTURAL & EARTHQUAKE ENGINEERING
ID/Catalog Number	Ampere	Frame	Poles	NEMA	Equipm	ent Dimensi	ions (in)	Weight	Representative ¹
ID/Catalog Number	Rating	Frame	Poles	Rating	Width	Depth	Height	(lbs)	UUT
Table 1: RTS-30 Wall Mounted ATS Product Line - Max $S_{DS} = 2.0$ at z/h = 1.0 - $F_p / W_p = 1.50$									
RTS30-ATB800BOW1	800	Е	4	1	31	18	66	565	UUT _x -2
Table 2: RTS-30 Floor Mounted ATS Product Line - Max $S_{DS} = 1.2$ at z/h = 1.0 - $F_p / W_p = 0.90$									
RTS30-ATx100 to RTS30-ATx800	100-800	F	3 & 4	COME	24-29	24	92	550-735	Extrapolated
RTS30-ATC8004BOF1	800	F	04		0129	24	92	735	UUT _x -1
RTS30-ATx1000 to RTS30-ATx2000	1000-2000	F	3&4		32-36	32	92	735-1065	Interpolated
RTS30-ATC20004BOF1	2000	F	4/2	MPL	36	32	92	1065	UUT _x -3
RTS30-ATx2000 to RTS30-ATx2500	2000-2500	Y F	3 & 4	P-nh96	32-36	36	92	1065-1190	Interpolated
RTS30-ATB25004BOF1	2500	F —	4	1	36	<mark>3</mark> 6	92	1190	UUT _x -4
Table 3: RTS-30 F	loor Mo <mark>unt</mark>	ed Bypa	ss ATS Pi	oduct Line	- Max S _{DS}	<mark>= 2.0</mark> at z/	h = 1.0 - 1	$F_p / W_p = 1.$	5
RTS30-ABxx100 to RTS30-ABxx800	100-800	D	3 & 4	www.c1	32-36		92	1500-1860	Extrapolated
RTS30-ABLB8004BOF1	800	D	$ATF^4 05$	/18/b02·	36	39	92	1860	UUT _x -7
RTS30-ABxx1000 to RTS30-ABxx2000	1000-2000	D	3 & 4	1	36-42	59	92	1860-3550	Interpolated
RTS30-ABxx2000 to RTS30-ABxx2500	2000-2500	D	3 & 4	$\wedge 1$	36-42	65	92	3550-3950	Interpolated
RTS30-ABLB25004BOF1	2500	D	4	1	42	65	92	3883	UUT _x -5
RTS30-ABxx2500 to RTS30-ABxx3000	2500-3000	D	3&4		C 42	65	92	3800-4350	Interpolated
RTS30-ABLB30004AMF1	3000	D	A B	VILDING	42	65	92	4326	UUT _y -8

General Notes:

All NEMA 1 enclosures are constructed of 12ga, Carbon Steel

x - A, B, and C operator selection. See Russelectric Model Number System for operator selection.

xx - BL or BO Switch Type selection.

¹ The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:

_x - 57108-1 _y - JID-19-01389

RUSSELECTRIC INC. SWITCH CERTIF		IC TRANSFER AND DMPONENT MATRI		WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING
Identification Number	Manufacturer	Description	Approximate Weights (lbs)	Representative ¹ UUT
Table 4: RTS-30 Floor M	ounted Autom	atic Transfer Switch Pane	$I - Max S_{DS} = 1$	1.2 at z/h = 1.0
RTS30-ATA100 to ATC800	Russelectric	100A-800A	300-400	Extrapolated
RTS30-ATC800	Russelectric	800A	400	UUT _x -1
RTS30-ATA100 to ATC2000	Russelectric	1000A-2000A	550-650	Interpolated
RTS30-ATC2000	Russelectric	2000A	650	UUT _x -3
RTS30-ATA2500 to ATC2500	Russelectric	2500A	700	Interpolated
RTS30-ATB2500	Russelectric	2500A	700	UUT _x -4
Table 5: RTS-30 Floor	Mounted Bypa	ss Transfer Switch Panel -	$Max S_{DS} = 2.0$	0 at z/h = 1.0
RTS30-ABLA100 to ABOC800	Russelectric	100A-800A	360-460	Extrapolated
RTS30-ABLB800	Russelectric	800A	470	UUT _x -7
RTS30-ABLA1000 to ABOC2000	Russelectric	1000A-2000A	650-780	Interpolated
RTS30-ABLA2500 to ABOC2500	Russelectric	2500A	850	Interpolated
RTS30-ABLB2500	Russelectric	2500A_0096	850	UUT _x -5
RTS30-ABLB3000	Russelectric	3000A	900	UUT _y -8

General Notes:

Tables present the critical ATS and Bypass transfer switch panels that are internal to the complete assembly.

¹ The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:

NG CODE: 20

x - 57108-1 y - JID-19-01389 CALKORNIA BUI



Mounting Details: Rigid floor mounted with (8) 1/2" diameter grade 5 bolts



UUT Description: The unit is a floor mounted NEMA type 1 enclosure comprising of 4-pole transfer switches with a main bus ampre rating of 800A.

UUT Component Description:

NEMA1 12ga Carbon Steel Enclosure, and Russelectric 800A Automatic Transfer Switch

			UUT PR	OPERTIES	5					
Weight Dimensions (inches)					Natura	al Fequenc	y (Hz)			
(lb)	Enclosure Width	Enclosu	ure Depth Enclosure Height			FB	SS	V		
735	29.0	24	.0	92.0		13	6.7	>33		
	SEISMIC TEST PARAMETERS									
	Fest Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}		
CBC 201	9/ ICC-ES-AC156	1.20	1.00	1.50	1.92g	1.44g	0.80g	0.32g		
Mate The	Let The miteres full of contents during to the ond new final for the stand of the decode LCC ES AC15(to the The unit									



Mounting Details: Rigid wall mounted with (4) 1/2" diameter grade 5 bolts



UUT Component Description:

NEMA1 12ga Carbon Steel Enclosure, and Russelectric 800A Automatic Transfer Switch

			UUT PRO	OPERTIES	8					
Weight	Dimensions (inches)					Natura	al Fequency	y (Hz)		
(lb)	Enclosure Width	Enclosu	re Depth	Enclosure Height		FB	SS	V		
565	31.0	18	3.0	66.0		N/A	N/A	N/A		
	SEISMIC TEST PARAMETERS									
	Fest Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}		
CBC 201	9 / ICC-ES-AC156	2.00	1.00	1.50	3.20g	2.40g	1.34g	0.54g		
A										



Mounting Details: Rigid floor mounted with (8) 1/2" diameter grade 5 bolts



UUT_x-4



Mounting Details: Rigid floor mounted with (4) 1/2" diameter grade 5 bolts BOTTOM IS OPEN ENTIRE OPEN AREA 0.625 DIA (4) BOLT DOWN HOLES VAL UUT-4 CONDUCT FNT 3.000 3,000 1,625 3,000 18.500 32,000 18.09 4,000 2.500 17.000 1.000 Manufacturer: Russelectric, Inc. Test Location: Wyle Laboratory, Inc Product Line: RTS 30 Cycle - Automatic Transfer Switches Report Number: 57108-1 Identification Number: RTS30-ATB25004BOF1 **UUT No. in Test Report:** 98014-4 UUT Function: Auto Transfer Switches to switch electrical loads to backup power source. UUT Description: The unit is a floor mounted NEMA type 1 enclosure comprising of 4-pole transfer switches with a main bus ampre rating of 2500A. **UUT Component Description:** NEMA1 12ga Carbon Steel Enclosure, and Russelectric 2500A Automatic Transfer Switch **UUT PROPERTIES** Weight Natural Fequency (Hz) Dimensions (inches) (lb)Enclosure Width **Enclosure Depth Enclosure Height** FB SS V 17.01.190 36.0 36.0 92.0 13.0> 33SEISMIC TEST PARAMETERS Test Criteria $S_{DS}(g)$ z/hIp A_{RIG-H} A_{FLX-H} A_{FLX-V} A_{RIG-V}

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

1.00

1.20

CBC 2019 / ICC-ES-AC156

1.50

1.92g

1.44g

0.32g

0.80g



Mounting Details: Rigid floor mounted with (6) 1/2" diameter grade 5 bolts



Weight	Dimensions (inches)						al Fequency	y (Hz)		
(lb)	Enclosure Width	Enclosu	osure Depth Enclosure Her		re Height	FB	SS	V		
3,883	42.0	65	.0	92.0		7.5	4.5	20.0		
SEISMIC TEST PARAMETERS										
	Fest Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}		
CBC 201	9 / ICC-ES-AC156	2.00	1.00	1.50	3.20g	2.40g	1.34g	0.54g		
Note: The	unit was full of contents d	luring testing	and remained	functional h	efore and afte	r the ICC_ES	AC156 test	The unit		

UUT_x-7



Mounting Details: Rigid floor mounted with (5) 1/2" diameter grade 5 bolts





Mounting Details: Rigid floor mounted with (6) 1/2" diameter grade 5 bolts

		J.		JEA I					
		E WER	OS OSP						
Manufa	cturer: Russelectric,	Inc.	ATE: 03/	3	Test Loca	tion: Clark	Laboritory	7	
Product	Line: RTS 30 Cycle	- Bypass Tr	ransfer Swi	itches	Report Nu	mber: JID	-19-01389		
Identific	cation Number: RTS	30-ABLB3	0004AMF1		UUT No. i	in Test Rep	port: UUT	-8y	
UUT Fu	nction: Bypass Trans	fer Switche	es to switch	electrical	loads to bac	ckup power	source.		
UUT De	escription: The unit	is a floor n	nounted NI	EMA type	1 enclosure	e comprisin	ng of 4-pol	le transfer	
switches	with by-pass compar	tment and a	n main bus	ampre ratin	g of 3000A	λ.			
NEMA1	IDENTIFY and SET UP: IDENTIFY and SET UP:	nclosure, ar			•		itch		
			UUT PRO	OPERTIES	5				
		UUT PROPERTIES Dimensions (inches)				Natural Fequency (Hz)			
Weight		Dimensio	ns (inches)				if i equene.	y (Hz)	
	Enclosure Width	Dimensio Enclosu	· · ·		e Height	FB	SS	y (Hz) V	
Weight			re Depth	Enclosur	re Height 2.0				
Weight (lb)	Enclosure Width	Enclosur 65	re Depth .0	Enclosur	2.0	FB	SS	V	
Weight (lb) 4,326	Enclosure Width	Enclosur 65	re Depth .0	Enclosur 92	2.0	FB	SS	V	
Weight (lb) 4,326	Enclosure Width 42.0	Enclosur 65 SEISI	re Depth .0 MIC TEST	Enclosur 92 T PARAM	2.0 ETERS	FB 14.2	SS 4.9	V 32.5	