

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHP	D SPECIAL SEISMIC	OFFICE USE ONLY
		APPLICATION #: OSP-0005
OSHPD Special Seismic Certifica	tion Preapproval (OSP)	
Type: New X Renewal		
Manufacturer Information		
Manufacturer: Russelectric, Inc.		
Manufacturer's Technical Representation	ve: Elizabeth Stark	
Mailing Address: 99 Industrial Park Rd	. South Shore Park, Hingham, MA 0204	3
Telephone: (781) 749-6000	Email: estark@russelectric	.com
APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP-0005 OSHPD Special Seismic Certification Preapproval (OSP) Type: New Renewal Manufacturer Information Manufacturer Information Manufacturer Information Manufacturer is Russelectric, Inc. Manufacturer's Technical Representative: Elizabeth Stark Mailing Address: 99 Industrial Park Rd. South Shore Park, Hingham, MA 02043 Felephone: (781) 749-6000 Email: estark@russelectric.com Product Information Product Information Product Name: Emergency and Standby Power Systems Product Nome: See Certified Product List Tables 1 to 3 Seneral Description: Russelectric RTS-03 Series Automatic & By Paiss Transfer Switches installed in NEMA 1 rated enclosures. The primary function is to transfer from a primary source to an emergency generator or secondary power source. Mounting Description: Rigid, Floor/Wall Mounted TE 06/02/2021 Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomales during the tests shall be incorporated into the production units. Applicant Information W.E. Gundy & Associates, Inc.		
Product Information	NED	
Product Name: Emergency and Standb	by Power Systems SHPD	P1.
Product Type: Automatic Transfer Swi	tches OSP-0005	
Product Model Number: See Certified	Product List Tables 1 to 3	
enclosures <mark>.</mark> T	he primary function is to transfer from a	
Applicant Information	PALL	
Applicant Company Name: W.E. Gund	y & Associates, Inc. UILDING	
Contact Person: Travis Soppe		
Mailing Address: 1199 Shoreline Drive	Suite 310, Boise, ID 83702	
Telephone: (208) 861-6913	Email: tsoppe@wegai.com	

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

Title: President

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
Mailing Address: P.O. Box 9121, Boise, ID 83707 Telephone: (208) 342-5989 Email: tsoppe@wegai.com Certification Method	
	ORCODE
Testing Laboratory	DFOR COMB,
Company Name: CLARK TESTING LABORATO	RY, INC. SHDD
Contact Person: Devon Lohr	
Mailing Address: 1801 Route 51 South, Jeffersor	Hills PA 15025
Telephone: (412) 387-1027	Email: dlohr@clarktesting.com
Company Name: WYLE LABORATIORIES	
	DATE: 06/02/2021
Mailing Address: 7800 Highway 20 West, Huntsv	ille AL 35806
Telephone: (256) 837-4411	Email: Don.smith@wyle.com
	NIA BUILDING COM

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design Basis of Equipment or Components	s (Fp/Wp) =1.5						
SDS (Design spectral response acce	eration at short period, g) = 2.0						
ap (Amplification factor) =	2.5						
R _P (Response modification factor) =	6.0						
Ω_0 (System overstrength factor) =	2.0						
lp (Importance factor) =	1.5						
z/h (Height ratio factor) =	1						
Natural frequencies (Hz) =	Multiple, see attachments						
Overall dimensions and weight = OSHPD Approval (For Office Use Only	Multiple, see attachments	257					
Date: 6/2/2021	OSP-0005	m					
Name: Mohammad Aliaari		Title:	Senior Structural Engineer				
Special Seismic Certification Valid Up to: S	DS (g) = 2.0	z/h=	1				
Condition of Approval (if applicable):	DATE: 06/02/2021						
	THORNIA BUILDING CODE	6102					

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSHPD

	Ampere	Б	D 1	NEMA	Equipment Dimensions (in)			Weight	Representative ¹	
ID/Catalog Number	Rating	Frame	Poles	Rating	Width	Depth	Height	(lbs)	UUT	
Т	able 1: RTS-03	Wall Mo	ounted Al	FS Product	Line - Ma	$x S_{DS} = 2.0$	at $z/h = 1$.	0		
RTS03-ATB8004AMW1	800	F	4	1	31	18	66	625	UUT _z -5	
RTS03-ATB8004AMW3R	800	F	4	3R	39	18	69	640	UUT _y -9	
Table 2: RTS-03 Floor Mounted ATS Product Line - Max S _{DS} = 2.0 at z/h = 1.0										
RTS03-ATx100 to ATx800	100-800	G	2,3&4	RCQDE	24-29	24	92	700-900	Extrapolated	
RTS03-ATB8004AMF1	800	G	64	1	29 0	24	92	900	UUT _z -1	
RTS03-ATx1000 to ATx2000	1000-2000	G	2,3&4	SHP	32-36	32	92	1025-1365	Interpolated	
RTS03-ATB20004AMF1	2000	G	4		36	32	92	1365	UUT _y -2	
RTS03-ATx25004AMF1	2500	QG	2, 3 & 4)SP1000)532-36	36	92	1205-1410	Interpolated	
TS03-ATB25004AMF1	2500	G	4		36	36	92	1410	UUT _y -3	
RTS03-ATx3000	3000	G	2, 3 & 4	hamhad	A140-48	40	92	1265-1480	Interpolated	
RTS03-ATB30004AMF1	3000	G			48	40	92	1480	UUT _y -4	
Table	3: RTS-03 Floo	<mark>r Mo</mark> unt	ted Bypas	s ATS Pro	luct Line -	Max S _{DS} =	= 2.0 at z/h	= 1.0		
RTS03-ABx100 to ABx800	100-800	A	2,3&4	1	32-36	039	92	1250-1750	Extrapolated	
RTS03-ABL8004AMF1	800	Ă	4		36	39	92	1750	UUT _z -6	
RTS03-ABx1000 to ABx2000	1000-2000	А	2,3&4	1	36-42	59	92	2200-3400	Interpolated	
RTS03-ABx25004xxF1	2500	А	3 & 4	unine pairmai	36-42	66	92	3500-4365	Interpolated	
TS03-ABL25004AMF1	2500	А	4	BOIFDI	42	66	92	3800	UUT _y -7	
TS03-ABL30004AMF1	3000	А	4	1	54"	66	92	4365	UUT _x -8	
General Notes: All enclosures are constructed of 12ga Fhumbscrews are required for all inst ATS: x - A, B, and C operator selection Bypass: x - L and O switch type selec The units were tested at different tim x - JID-19-01389 y - 53851-1	allations. on. See Russelectri tion. See Russelec nes and the subscri	tric Mode	el Number	System for s	witch type se	election.				

RUSSELECTRIC INC. AUTOMATIC TRANSFER AND BYPASS SWITCH CERTIFIED SUBCOMPONENT MATRICES



Identification Number	Manufacturer	Description	Approximate Weights (lbs)	Representative UUT	
Table 4: RTS-03 Flo	or Mounted Au	tomatic Transfer Switch -]	$Max S_{DS} = 2.0$	at z/h = 1.0	
RTS03-AT 100 to AT 800	Russelectric	100A-800A	150-260	Interpolated	
RTS03-AT 800	Russelectric	800A	260	UUT _z -1 / UUT _y -9	
RTS03-AT 1000 to AT 2000	Russelectric	1000A-2000A	450-550	Interpolated	
RTS03-AT 2000	Russelectric	2000A	550	UUT _y -2	
RTS03-AT 2500	Russelectric	2500A	580	UUT _y -3	
RTS03-AT 3000	Russelectric	3000A	700	UUT _y -4	
Table 5: RTS-03 F	loor Mounted F	Bypass Transfer Switch - M	$ax S_{DS} = 2.0 a$	t z/h = 1.0	
RTS03-ABL 100 to ABL 800	Russelectric	100A-800A	200-300	Extrapolated	
RTS03-ABL 800	Russelectric	800A CODE COL	300	UUT _z -6	
RTS03-ABL 1000 to ABL 2000	Russelectric	1000A-2000A	550-680	Interpolated	
RTS03-ABL 2500	Russelectric	2500A	680	UUT _y -7	
RTS03-ABL 3000	Russelectric	3000A	710	UUT _x -8	
General Notes:	R	OSP-0005	m		

General Notes:

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

DATE: 06/02/2021

NG CODE.2

CTLIRORNIA BUI

x - JID-19-01389 y - 53851-1 z - 53237-1; Mohammad Aliaari



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (8) 1/2" diameter grade 5 bolts. **Seismic Modifications:** Standard Door Thumb Screws Required



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 PRO	OPERTIES	S					
Weight	Dimensions (inches)						Natural Fequency (Hz)			
(lb)	Enclosure Width	Enclosu	losure Depth Enclosure Height		FB	SS	V			
900	29.0	24	.0	92.0		12.0	9.1	30.3		
		SEIS	MIC TEST	PARAM	ETERS		<u> </u>			
-	Fest Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}		
CBC 20	19 / ICC-ES-AC156	2.00	1.00	1.50	3.20g	2.40g	1.33g	0.54g		

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (8) 1/2" diameter grade 5 bolts. **Seismic Modifications:** Standard Door Thumb Screws Required



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 2000A.

UUT Component Description:

NEMA1 12ga Carbon Steel Enclosure, and Russelectric 2000A Automatic Transfer Switch

			UUT PRO	OPERTIE	S			
Weight			Natural Fequency (Hz)					
(lb)	Enclosure Width	Enclosu	re Depth	Enclosure Height		FB	SS	V
1,365	36.0	32	0 92.0		10.0	5.9	> 33	
		SEIS	MIC TEST	PARAM	ETERS			
-	Fest Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 20	CBC 2019 / ICC-ES-AC156		1.00	1.50	3.20g	2.40g	1.33g	0.54g
Note: The i	init was full of contents of	luring testing	and remained	l functional b	efore and afte	r the ICC-ES	AC156 test	The unit

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (8) 1/2" diameter grade 5 bolts. Seismic Modifications: Standard Door Thumb Screws Required



NEMA1 12ga Carbon Steel Enclosure, and Russelectric 2000A Automatic Transfer Switch

	UUT PROPERTIES												
Weight		Dimensio		Natura	Natural Fequency (Hz)								
(lb)	Enclosure Width	Enclosu	Enclosure Depth Enclosure Height		e Height	FB	SS	V					
1,410	36.0	36	6.0 92.0		10.0	4.8	> 33						
		SEIS	MIC TEST	PARAM	ETERS								
]	Fest Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}					
CBC 201	19 / ICC-ES-AC156	1.50	3.20g	2.40g	1.33g	0.54g							
Note: The 1	init was full of contents of	luring testing	and remained	l functional h	efore and afte	r the ICC-ES	AC156 test	The unit					

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (8) 1/2" diameter grade 5 bolts. **Seismic Modifications:** Standard Door Thumb Screws Required



NEMA1 12ga Carbon Steel Enclosure, and Russelectric 3000A Automatic Transfer Switch

			UUT PRO	OPERTIES	S			
Weight			Natural Fequency (Hz)					
(lb)	Enclosure Width	Enclosure Depth Enclosure Height		FB	SS	V		
1,480	48.0	40	0.0	92.0		10.0	4.7	> 33
		SEIS	MIC TEST	F PARAM	ETERS			
r	Test Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 20	19 / ICC-ES-AC156	2.00	1.00	1.50	3.20g	2.40g	1.33g	0.54g
Note: The	unit was full of contants of	luring tasting	and romainad	functionalh	aforo and afte	" the ICC ES	AC156 test	Thounit

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (4) 1/2" diameter grade 5 bolts. **Seismic Modifications:** Standard Door Thumb Screws Required



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

	UUT PROPERTIES											
Weight			Natural Fequency (Hz)									
(lb)	Enclosure Width	losure Width Enclosure Depth Enclosure I		re Height	FB	SS	V					
625	31.0	18	3.0	66.0		NA	NA	NA				
		SEIS	MIC TEST	PARAM	ETERS							
	Fest Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}				
CBC 20	CBC 2019 / ICC-ES-AC156		1.00	1.50	3.20g	2.40g	1.33g	0.54g				
Note: The i	unit was full of contents of	luring testing	and remained	functional h	efore and afte	r the ICC-ES	AC156 test	The unit				

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (7) 1/2" diameter grade 5 bolts. **Seismic Modifications:** Standard Door Thumb Screws Required



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

UUT Component Description:

NEMA1 12ga Carbon Steel Enclosure, and Russelectric 800A By-Pass Transfer Switch

	UUT PROPERTIES												
Weight		Natural Fequency (Hz)											
(lb)	Enclosure Width	Enclosu	nclosure Depth Enclosure Height		FB	SS	V						
1,750	36.0	39	0.0	92.0		10.0	9.1	> 33					
		SEIS	MIC TEST	FPARAM	ETERS								
[Fest Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}					
CBC 202	19 / ICC-ES-AC156	2.00	1.00	1.50	3.20g	2.40g	1.33g	0.54g					
	· · · · · · · · · · · · · · · · · · ·	· · · · ·	1 .	1.6 1.1	C 1 C		1015(1.1	TT1 '/					

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (7) 1/2" diameter grade 5 bolts. **Seismic Modifications:** Standard Door Thumb Screws Required



switches with a by-pass compartment and a main bus ampre rating of 2500A.

UUT Component Description:

NEMA1 12ga Carbon Steel Enclosure, and Russelectric 2500A By-Pass Transfer Switch

	UUT PROPERTIES												
Weight		Dimensio		Natural Fequency (Hz)									
(lb)	Enclosure Width	Enclosu	re Depth	Enclosure Height		FB	SS	V					
3,800	42.0	66	5.0	92.0		7.7	6.3	30.3					
		SEIS	MIC TEST	FPARAM	ETERS								
[Fest Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}					
CBC 202	9 / ICC-ES-AC156	2.00	1.00	1.50	3.20g	2.40g	1.33g	0.54g					
	· · · · · · · · · · · · · · · · · · ·	L	1 .	1.6. 1.1	C 1 C		101561	TT1 '					

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (4) 1/2" diameter grade 5 bolts. **Seismic Modifications:** Standard Door Thumb Screws Required



Manufacturer: Russelectric, Inc.	Test Location: Clark Laboratory			
Product Line: By-Pass Transfer Switches	Report Number: JID 19-01389			
Model Number: RTS03-ABLB30004AMF1	UUT No. in Test Report: UUT-8x			

UUT Function: Bypass Switches provide a fail-safe access port for an in-line active security appliance.

UUT Description: The unit is a floor mounted NEMA type 1 enclosure comprising of 4-pole transfer switches with a by-pass compartment and a main bus ampre rating of 3000A.

UUT Component Description:

NEMA1 12ga Carbon Steel Enclosure, and Russelectric 3000A By-Pass Transfer Switch

UUT PROPERTIES									
Weight	Dimensions (inches)			Natural Fequency (Hz)					
(lb)	Enclosure Width	Enclosu	re Depth	Enclosu	re Height	FB	SS	V	
4,365	365 54.0 66.0		91	.5	16.9	5.9	32.5		
	SEISMIC TEST PARAMETERS								
]	Fest Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CDC 201	19 / ICC-ES-AC156	2.00	1.00	1.50	3.20g	2.40g	-	-	
CBC 201		2.50	0.00	1.50	-	-	1.67g	0.67g	
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit									

UUT_v-9

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (4) 1/2" diameter grade 5 bolts. **Seismic Modifications:** Standard Door Thumb Screws Required



UUT Component Description:

NEMA3R 12ga Carbon Steel Enclosure, and Russelectric 800A Automatic Transfer Switch

UUT PROPERTIES									
Weight					Natural Fequency (Hz)				
(lb)	Enclosure Width	Enclosu	re Depth	Enclosu	e Height	FB	SS	V	
640	39.0	18.0		69.0		NA	NA	NA	
	SEISMIC TEST PARAMETERS								
Test Criteria		$S_{DS}(g)$	z / h	I _P	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}	
CBC 2019 / ICC-ES-AC156 2.00 1.00			1.00	1.50	3.20g	2.40g	1.33g	0.54g	
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 te							AC156 test	The unit	