



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

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

OFFICE USE ONLY

**APPLICATION #: OSP-0655**

**OSHPD Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Ruselectric Inc.

Manufacturer's Technical Representative: Bill Johnston

Mailing Address: South Shore Park, Hingham, MA 02043

Telephone: (781) 749-6000 Email: bjohnston@ruselectric.com

**Product Information**

Product Name: Emergency and Standby Power Systems

Product Type: Automatic Transfer Switches

Product Model Number: RTSCD Automatic Transfer Switch Product Line

General Description: Units transfer power from a primary source to an emergency generator or secondary power source.

Mounting Description: Rigid, Wall Mounted

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

**Applicant Information**

Applicant Company Name: WE Gundy & Associates, Inc

Contact Person: Travis Soppe

Mailing Address: PO Box 9121, Boise, ID 83707

Telephone: (208) 342-5989 Email: tsoppe@wegai.com

Title: President





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

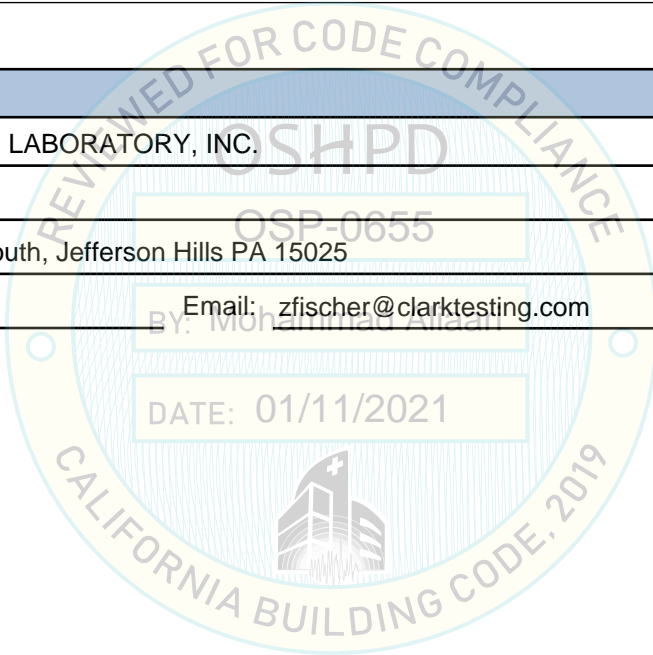
Company Name: W.E. GUNDY & ASSOCIATES INC.  
Name: Travis Soppe California License Number: S6115  
Mailing Address: P.O. Box 9121, Boise, ID 83707  
Telephone: (208) 342-5989 Email: tsoppe@wegai.com

**Certification Method**

GR-63-Core       ICC-ES AC156       IEEE 344       IEEE 693       NEBS 3  
 Other (Please Specify): \_\_\_\_\_

**Testing Laboratory**

Company Name: CLARK TESTING LABORATORY, INC.  
Contact Person: Zachary Fischer  
Mailing Address: 1801 Route 51 South, Jefferson Hills PA 15025  
Telephone: (412) 387-1676 Email: zfischer@clarktesting.com





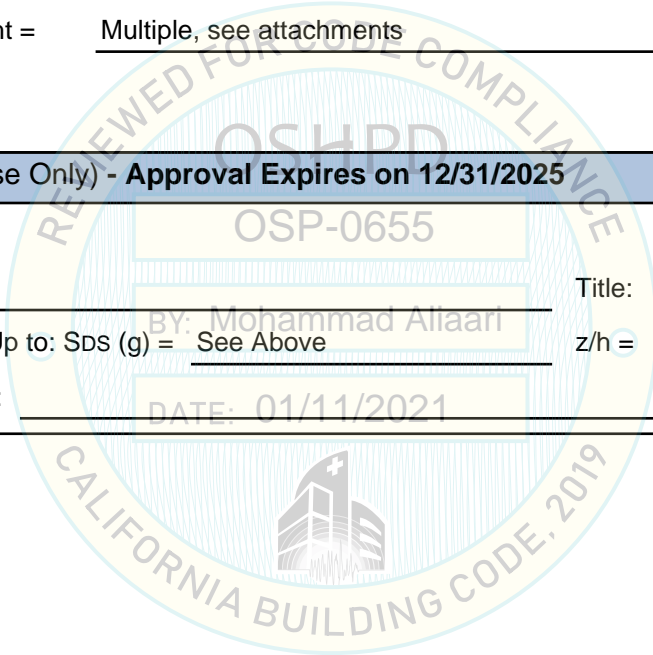
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**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) =	1.5 for SDS = 2.0 at z/h = 1 and 1.13 for SDS = 2.5 at z/h = 0
SDS (Design spectral response acceleration at short period, g) =	2.0 at z/h = 1 and 2.5 at z/h = 0
$a_p$ (Amplification factor) =	2.5
$R_p$ (Response modification factor) =	6.0
$\Omega_0$ (System overstrength factor) =	2.0
$I_p$ (Importance factor) =	1.5
z/h (Height ratio factor) =	1 and 0
Natural frequencies (Hz) =	Multiple, see attachments
Overall dimensions and weight =	Multiple, see attachments

**OSHPD Approval (For Office Use Only) - Approval Expires on 12/31/2025**

Date:	1/11/2021		
Name:	Mohammad Aliaari	Title:	Senior Structural Engineer
Special Seismic Certification Valid Up to: SDS (g) =	See Above	z/h =	See Above
Condition of Approval (if applicable):			





**RUSSELECTRIC INC. RTSCD AUTOMATIC TRANSFER SWITCHES CERTIFIED SUBCOMPONENT MATRICES**



Identification Number	Manufacturer	Description	Approximate Weights (lbs)	Representative UUT <sup>1)</sup>
<b>Table 2: Automatic Transfer Switches - Max S<sub>DS</sub> = 2.0 at z/h = 1.0</b>				
R6A1 2026	Russelectric	260 Amp, 2P + Solid	30	Interpolated
R6A0 3026	Russelectric	260 Amp, 3P	30	UUT <sub>x</sub> -1
R6A1 3026	Russelectric	260 Amp, 3P + Solid	30	Interpolated
R6A0 4026	Russelectric	260 Amp, 4P	30	Interpolated
R6A1 2040	Russelectric	400 Amp, 2P + Solid	30	Interpolated
R6A0 3040	Russelectric	400 Amp, 3P	30	Interpolated
R6A1 3040	Russelectric	400 Amp, 3P + Solid	30	Interpolated
R6A0 4040	Russelectric	400 Amp, 4P	30	UUT <sub>x</sub> -2
R8A0 3026	Russelectric	260 Amp, 3P	60	Interpolated
R8A1 3026	Russelectric	260 Amp, 3P + Solid	60	Interpolated
R8A0 4026	Russelectric	260 Amp, 4P	60	Interpolated
R8A0 3040	Russelectric	400 Amp, 3P	60	Interpolated
R8A1 3040	Russelectric	400 Amp, 3P + Solid	60	Interpolated
R8A0 4040	Russelectric	400 Amp, 4P	60	UUT <sub>y</sub> -3

**General Notes:**  
 Switches rated at 260A and 400A are constructed the same, just rated differently.  
<sup>1)</sup> <sub>x</sub> and <sub>y</sub> indicates the test report in which the units were qualified under:  
 x - JID 19-01143-2 Rev.1    y - JID 19-01389

UUT<sub>x</sub>-1

**UNIT UNDER TEST (UUT)  
SUMMARY SHEET**



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

**Required Modifications:** Din rail power supplies required addition of a bracket to pass seismic testing.



<b>Manufacturer:</b> Russelectric, Inc.	<b>Test Location:</b> Clark Dynamic Laboratory
<b>Product Line:</b> RTSCD Automatic Transfer Switches	<b>Report Number:</b> JID 19-01143-2 Rev.1
<b>Model Number:</b> RTSCD-ATA260	<b>Serial Number:</b> 19112010002R6a0340

**UUT Function:** Auto Transfer Switches to switch electrical loads to backup power source.

**UUT Description:** The unit is a wall mounted NEMA type 1 enclosure comprising of 3-pole transfer switches with a ampre rating of 260A.

**UUT Component Description:**  
NEMA1 12ga Carbon Steel Enclosure with Russelectric 260A Automatic Transfer Switch (R6A0 3026), Power Supply (CPSB2-120-24), Control Power Transformer (SP250MQMJ), and Current Transformer (16RBT-401).

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
177	24"	12"	48"	NA	NA	NA

**SEISMIC TEST PARAMETERS**

Test Criteria	S <sub>DS</sub> (g)	z / h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2019 / ICC-ES-AC156	2.00	1.00	1.50	3.20g	2.40g	-	-
	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 maintained structural integrity during and after the ICC-ES AC156 Test.

UUT<sub>x</sub>-2

# UNIT UNDER TEST (UUT) SUMMARY SHEET



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

**Required Modifications:** Din rail power supplies required addition of a bracket to pass seismic testing.



<b>Manufacturer:</b> Russelectric, Inc.	<b>Test Location:</b> Clark Dynamic Laboratory
<b>Product Line:</b> RTSCD Automatic Transfer Switches	<b>Report Number:</b> JID 19-01143-2 Rev.1
<b>Model Number:</b> RTSCD-ATA400	<b>Serial Number:</b> 19152010016R6a13040

**UUT Function:** Auto Transfer Switches to switch electrical loads to backup power source.

**UUT Description:** The unit is a wall mounted NEMA type 3R enclosure comprising of 4-pole transfer switches with a ampre rating of 400A.

**UUT Component Description:**  
NEMA 3R 12ga Carbon Steel Enclosure with Russelectric 400A Automatic Transfer Switch (R6A0 4040), Power Supply (CPSB2-120-24), Control Power Transformer (SP250MQMJ), and Current Transformer (16RBT-401).

### UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
186	24"	12"	48"	NA	NA	NA

### SEISMIC TEST PARAMETERS

Test Criteria	S <sub>DS</sub> (g)	z / h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2019 / ICC-ES-AC156	2.00	1.00	1.50	3.20g	2.40g	-	-
	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 maintained structural integrity during and after the ICC-ES AC156 Test.

UUT<sub>y</sub>-3

## UNIT UNDER TEST (UUT) SUMMARY SHEET



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

**Required Modifications:** Din rail power supplies required addition of a bracket and door mounted electroics required a sticky bracket to succure wires to pass seismic testing.



**Manufacturer:** Russelectric, Inc. **Test Location:** Clark Dynamic Laboratory

**Product Line:** RTSCD Automatic Transfer Switches **Report Number:** JID 19-01389

**Model Number:** RTSCD-ATB400 **Serial Number:** R8A04040

**UUT Function:** Auto Transfer Switches to switch electrical loads to backup power source.

**UUT Description:** The unit is a wall mounted NEMA type 1 enclosure comprising of dual operator, 4-pole transfer switches with a ampere rating of 400A.

**UUT Component Description:**  
NEMA 1 12ga Carbon Steel Enclosure with Russelectric 400A Dual Operator Switch Automatic Transfer Switch (R8A0 4040), Power Supply (CPSB2-120-24), Control Power Transformer (SP250MQMJ), and Current Transformer (16RBT-401).

### UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
246	24"	12"	60"	NA	NA	NA

### SEISMIC TEST PARAMETERS

Test Criteria	S <sub>DS</sub> (g)	z / h	I <sub>p</sub>	A <sub>FLX-H</sub>	A <sub>RIG-H</sub>	A <sub>FLX-V</sub>	A <sub>RIG-V</sub>
CBC 2019 / ICC-ES-AC156	2.00	1.00	1.50	3.20g	2.40g	-	-
	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 maintained structural integrity during and after the ICC-ES AC156 Test.