



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

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

OFFICE USE ONLY

**APPLICATION #: OSP-0656**

**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: Industrial Control Panels

Product Type: Building Automation and Security Systems

Product Model Number: Remote Terminal Units

General Description: Remote electrical control for transfer switches and switchgear

Mounting Description: Rigid, Wall Mounted

Tested Seismic Enhancements: None

DATE: 01/11/2021

**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**

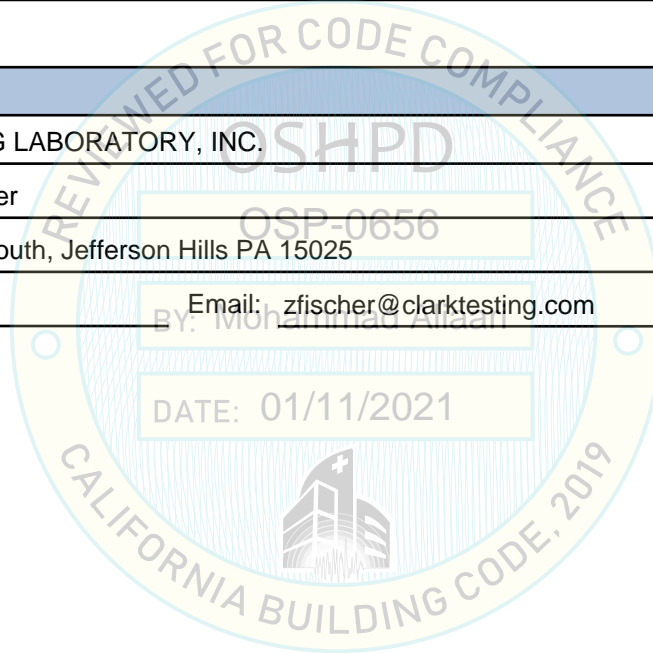
Company Name: CLARK TESTING LABORATORY, INC.

Contact Person: Zachary E. Fischer

Mailing Address: 1801 Route 51 South, Jefferson Hills PA 15025

Telephone: (412) 387-1027

Email: zfischer@clarktesting.com





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**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = Multiple, see attachments

SDS (Design spectral response acceleration at short period, g) = Multiple, see attachments

$a_p$  (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

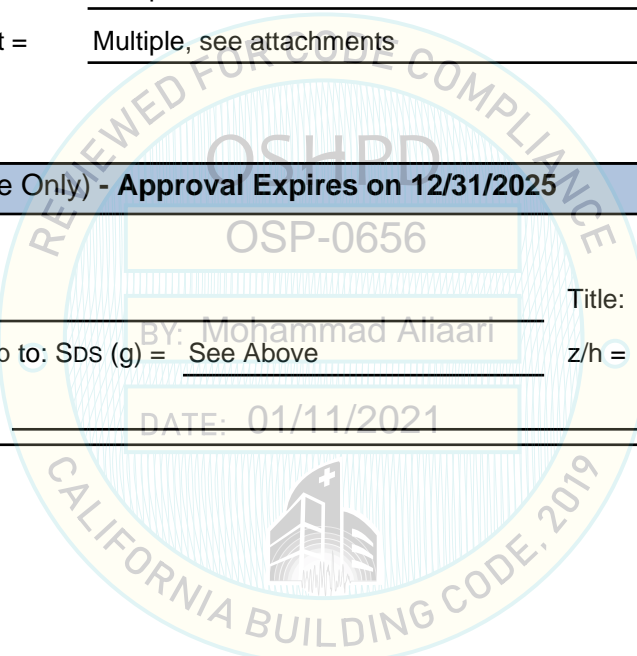
**OSHPD Approval (For Office Use Only) - Approval Expires on 12/31/2025**

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): DATE: 01/11/2021



**RUSSELECTRIC INC. REMOTE TERMINAL UNIT (RTU)  
CERTIFIED COMPONENTS TABLES**



ID/Catalog Number	NEMA Rating <sup>1)</sup>	Equipment Dimensions			Weight (lbs)	Representative UUT
		Width (in)	Depth (in)	Height (in)		
<b>Table 1: RTU Product Line</b>		Max S <sub>DS</sub> = 2.0 at z <sub>h</sub> = 1, F <sub>p</sub> = 1.50 / Max S <sub>DS</sub> = 2.5 at z <sub>h</sub> = 0, F <sub>p</sub> = 1.13				
RTU-ATS-AP	1	20	7	30	64	UUT-1
RTU-ROIP/ATS-AP	1	20-36	6-12	30	64-192	Interpolated
RTU-ROIP	1	36	12	30	192	UUT-2
<b>Table 2: Remote Annunciator Cubicle</b>		Max S <sub>DS</sub> = 1.0 at z <sub>h</sub> = 1, F <sub>p</sub> = 0.75 / Max S <sub>DS</sub> = 1.6 at z <sub>h</sub> = 0, F <sub>p</sub> = 0.72				
RTU-RAIC	1	36	12	72	414	UUT-3

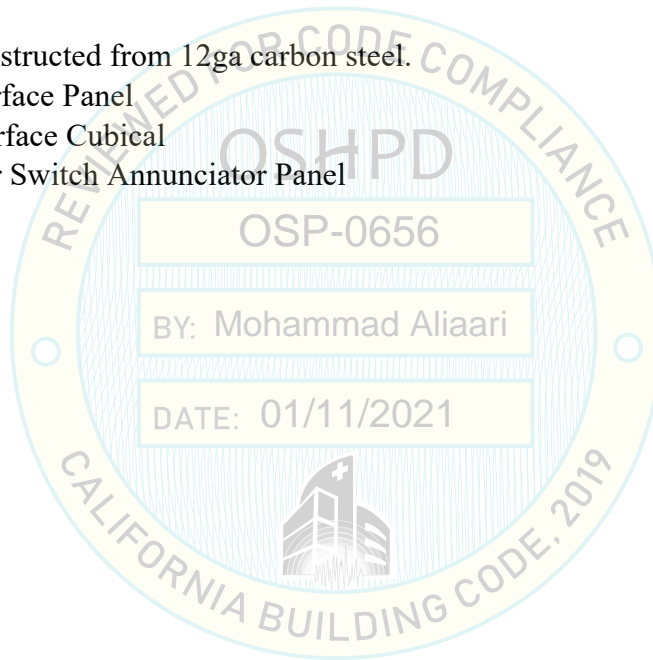
**General Notes:**

<sup>1)</sup> NEMA 1 enclosures are constructed from 12ga carbon steel.

ROIP - Remote Operator Interface Panel

RAIC - Remote Operator Interface Cubical

ATS-AP - Automatic Transfer Switch Annunciator Panel



UUT-1

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



**Mounting Details:** Wall mounted with (3) 1/4" diameter grade 5 bolts.



DATE: 01/11/2021

<b>Manufacturer:</b> Russelectric, Inc.	<b>Test Location:</b> Clark Dynamic Laboratories
<b>Product Line:</b> Remote Terminal Unit	<b>Report Number:</b> JID 19-01389
<b>Model Number:</b> RTU-ATS-AP	<b>Serial Number:</b> 99023-5A
<b>UUT Function:</b> Remote electrical panels used to control equipment and motors.	
<b>UUT Description:</b> The unit is a wall mounted NEMA type 1 enclosure comprising electrical controls.	
<b>UUT Component Description:</b> NEMA1 12ga Carbon Steel Enclosure with Power Supply (GE IC200PWR002H, IDEC PS5R-VE24) and Controls (GE V11197).	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
64	20"	7"	30.0	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-2

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



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



REVIEWED FOR CODE COMPLIANCE  
OSP-0656  
BY: Mohammad Aliaari  
DATE: 01/11/2021  
02.03.2020

<b>Manufacturer:</b> Russelectric, Inc.	<b>Test Location:</b> Clark Dynamic Laboratories
<b>Product Line:</b> Remote Terminal Unit	<b>Report Number:</b> JID 19-01389
<b>Model Number:</b> RTU-ROIP	<b>Serial Number:</b> 99023-3
<b>UUT Function:</b> Remote electrical panels used to control equipment and motors.	
<b>UUT Description:</b> The unit is a wall mounted NEMA type 1 enclosure comprising electrical controls.	
<b>UUT Component Description:</b> NEMA1 12ga Carbon Steel Enclosure with HMI panel (HIS-ML23-CTTD), Battery (SDU 24-BAT) and Power Supply (SDN 20-24-100C).	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
192	36"	12"	30"	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-3

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



**Mounting Details:** Wall mounted with (4) 1/2" diameter grade 8 bolts.



<b>Manufacturer:</b> Russelectric, Inc.	<b>Test Location:</b> Clark Dynamic Laboratories
<b>Product Line:</b> Remote Annunciator	<b>Report Number:</b> JID 19-01389
<b>Model Number:</b> RTU-RAIC	<b>Serial Number:</b> 99023-4
<b>UUT Function:</b> Remote electrical panels used to control equipment and motors.	
<b>UUT Description:</b> The unit is a wall mounted NEMA type 1 enclosure comprising electrical controls.	
<b>UUT Component Description:</b> NEMA1 12ga Carbon Steel Enclosure with HMI panel (HIS-ML23-CTTD), Battery (SDU 24-BAT) and Power Supply (SDN 20-24-100C/SDU 20-24).	

**UUT PROPERTIES**

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Enclosure Width	Enclosure Depth	Enclosure Height	FB	SS	V
414	36"	12"	72"	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	1.00	1.00	1.50	1.60g	1.2g	-	-
	1.60	0.00	-	-	-	1.07g	0.43g

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.