



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

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

OFFICE USE ONLY

APPLICATION #: OSP – 0091-10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Acuity Brands Lighting, Inc.

Manufacturer's Technical Representative: John "Red" Guthier

Mailing Address: 9144 Deering Avenue, Chatsworth, CA 91311

Telephone: 818.701.2211 Email: red.guthier@acuitybrands.com

Product Information

Product Name: Lighting Control Panels

Product Type: Electrical sheet metal framed control panel

Product Model Number: GR2400 Relay Panel

(List all unique product identification numbers and/or part numbers)

General Description: Wall mounted electrical lighting control panels

Mounting Description: Rigid wall mounted

Applicant Information

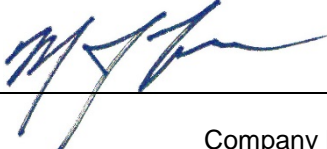
Applicant Company Name: TRU Compliance, LLC – A Tobolski Watkins Affiliate

Contact Person: Matthew J. Tobolski, Ph.D., S.E.

Mailing Address: 960 SW Disk Dr. Suite 104, Bend OR 97702

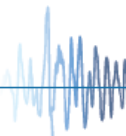
Telephone: 844-878-0200 Email: mtobolski@trucompliance.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant:  Date: 2/20/2017

Title: President & CEO Company Name: TRU Compliance, LLC

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





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

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

Company Name: TRU Compliance, LLC – A Tobolski Watkins Affiliate

Name: Matthew J. Tobolski, Ph.D., S.E. California License Number: S5648

Mailing Address: 960 SW Disk Dr. Suite 104, Bend OR 97702

Telephone: 844-878-0200 Email: mtobolskil@trucompliance.com

Supports and Attachments Preapproval

- Supports and attachments are preapproved under OPM- _____
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
- Supports and attachments are not preapproved

Certification Method

- Testing in accordance with: ICC-ES AC156
- Other (Please Specify): _____

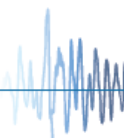
Testing Laboratory

Company Name: Environ Laboratories

Contact Name: Kent L. Erickson

Mailing Address: 9725 Girard Avenue South, Minneapolis, MN 55431

Telephone: 952.888.7795 Email: kle@environlab.com





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Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = 1.31

S_{DS} (Design spectral response acceleration at short period, g) = 1.75

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = See Attachment A

Overall dimensions and weight (or range thereof) = See Attachment A

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No

Design Basis of Equipment or Components (V/W) = _____

S_{DS} (Design spectral response acceleration at short period, g) = _____

S_{D1} (Design spectral response acceleration at 1 second period, g) = _____

R (Response modification coefficient) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = _____

Equipment or Component Natural Frequencies (Hz) = _____

Overall dimensions and weight (or range thereof) = _____

Tank(s) designed in accordance with ASME BPVC, 2015: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): Attachment A

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature: 

Date: 3/10/17

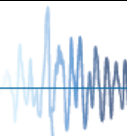
Print Name: M. R. Karim

Title: SHFR

Special Seismic Certification Valid Up to : S_{DS} (g) = 1.75

z/h = 1.0

Condition of Approval (if applicable): _____



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

TRU PROJECT NO. 16056



Manufacturer: Acuity Brands Controls	TABLE 1
Model Line: GR2400 Series	

Certified Product Construction Summary:
Acuity Brands Controls GR2400 Series of Relay Panels; 16 ga. punch & fold carbon steel enclosure

Certified Options Summary:
** TYPE OF RELAY MODULES USED - NC (Normally closed) or NO (Normally open)
~~ QUANTITY OF RELAY MODULES USED - GR2448 (1 - 48)/GR2432 (1 - 32)/GR1416 (1 - 16)

Mounting Configuration:
Wall mounted - rigid
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2016 **Seismic Certification Limits:** $S_{DS} = 1.75 g$ $z/h = 1.0$ $I_p = 1.5$

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
GR2400 Relay Panel	GR2448/48DTCMODDVNCSM	6	20	37.5	70		A3
GR2400 Relay Panel	GR2448/~DTCMODDV**SM	6	20	37.5	70		Interp.
GR2400 Relay Panel	GR2448/~SLAVEDV**SM	6	20	37.5	70		Interp.
GR2400 Relay Panel	GR2448/~DTCMODDV**FM	6	20	37.5	70		Interp.
GR2400 Relay Panel	GR2448/~SLAVEDV**FM	6	20	37.5	70		Interp.
GR2400 Relay Panel	GR2432/~DTCMODDV**SM	6	20	25.5	56		Interp.
GR2400 Relay Panel	GR2432/~SLAVEDV**SM	6	20	25.5	56		Interp.
GR2400 Relay Panel	GR2432/~DTCMODDV**FM	6	20	25.5	56		Interp.
GR2400 Relay Panel	GR2432/~SLAVEDV**FM	6	20	25.5	56		Interp.
GR1400 Relay Panel	GR1416/16SLAVEDVNCSM	6	12	18	29.5		A4

**SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX**

TRU PROJECT NO. 16056



Manufacturer: Acuity Brands Controls	Table Description: Electrical components	TABLE 2
Model Line: GR2400 Series		

Building Code: CBC 2016 **Seismic Certification Limits:** $S_{DS} = 1.75 g$ $z/h = 1.0$ $I_p = 1.5$

Component Type	Manufacturer	Model	Description	Notes	UUT
Relays	Acuity Controls	SL30NCL	SnapLink Normally closed latching relay	0.25 lbs.	A3, A4
		SL30NOL	SnapLink Normally open latching relay	0.25 lbs.	Interp.
Transformer	Acuity Controls	2-30-2366	120/277V Transformer	1.8 lbs.	A3, A4

UNIT UNDER TEST (UUT) SUMMARY SHEET

TRU PROJECT NO. 16056



Manufacturer: Acuity Brands Controls	UUT A3
Model Line: GR2400 Series	
Model Number: GR2448/48DTCMODDVNCSM	
Serial Number: 40110341119	

Product Construction Summary:
48 Output Relay Panel LCP-1; 16 ga. punch & fold carbon steel enclosure

Options/Subcomponent Summary:
N/A

<i>UUT Properties</i>						
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
70	6	20	37.5	N/A	N/A	N/A

<i>UUT Highest Passed Seismic Run Information</i>								
Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC156	1.75	1.0	1.5	2.80	2.10	1.17	0.47

Test Mounting Details:



Mounted for vertical test



Mounted for horizontal test

Unit mounted to vertical face of fixture using (4) 3/8" grade 8 socket head cap screws.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 16056

Manufacturer:	Acuity Brands Controls	UUT A4
Model Line:	GR2400 Series	
Model Number:	GR1416/16SLAVEDVNCSM	
Serial Number:		4011015042

Product Construction Summary:
16 Output Relay Panel LCP-3; 16 ga. punch & fold carbon steel enclosure

Options/Subcomponent Summary:
N/A

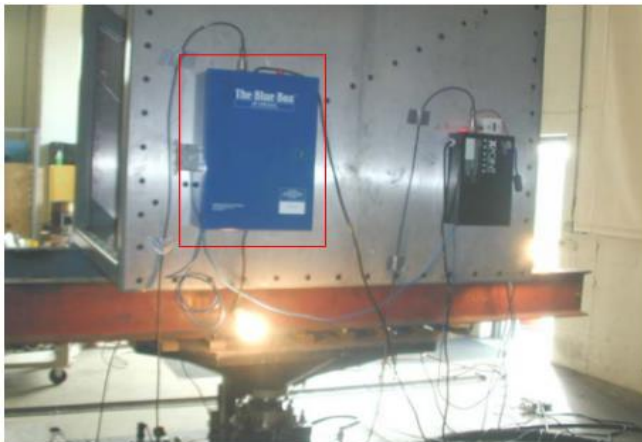
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
29.5	6	12	18	N/A	N/A	N/A

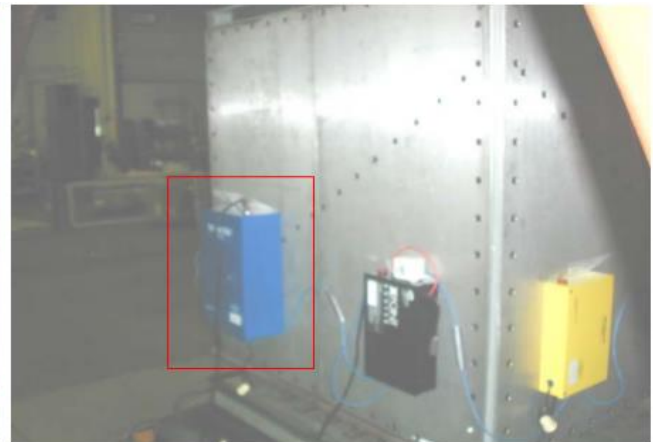
UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2016	ICC-ES AC156	1.75	1.0	1.5	2.80	2.10	1.17	0.47

Test Mounting Details:



Mounted for vertical test



Mounted for horizontal test

Unit mounted to vertical face of fixture using (4) 1/4" Grade 8 socket head cap screws.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.