



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY
APPLICATION #: OSP - 0577 - 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: [X] New [] Renewal

Manufacturer Information

Manufacturer: Acuity Brands

Manufacturer's Technical Representative: Don Zulim

Mailing Address: One Lithonia Way, Conyers, GA 30012

Telephone: 770.860.3642 Email: don.zulim@acuitybrands.com

Product Information

Product Name: nLight and Fresco panels (See Attachment)

Product Type: Control Panels

Product Model Number: Various (See Attachment)
(List all unique product identification numbers and/or part numbers)

General Description: Relay Control Panel enclosures with dimmers, controllers, modules, transformers, circuit
breakers, switches, and power supplies

Mounting Description: Rigid wall mounted.

Applicant Information

Applicant Company Name: TRU Compliance by Structural Integrity Associates, Inc.

Contact Person: Luke Bockewitz

Mailing Address: 5215 Hellyer Avenue, Suite 210, San Jose, CA 95138

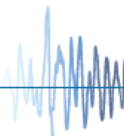
Telephone: 309 854 2897 Email: lbockewitz@structint.com

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: [Handwritten Signature] Date: 8/21/2018

Title: Consultant Company Name: Structural Integrity Associates, Inc.

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 by Structural Integrity Associates, Inc.

Name: Andrew Coughlin, S.E. California License Number: S6082

Mailing Address: 5215 Hellyer Avenue, Suite 210, San Jose, CA 95138

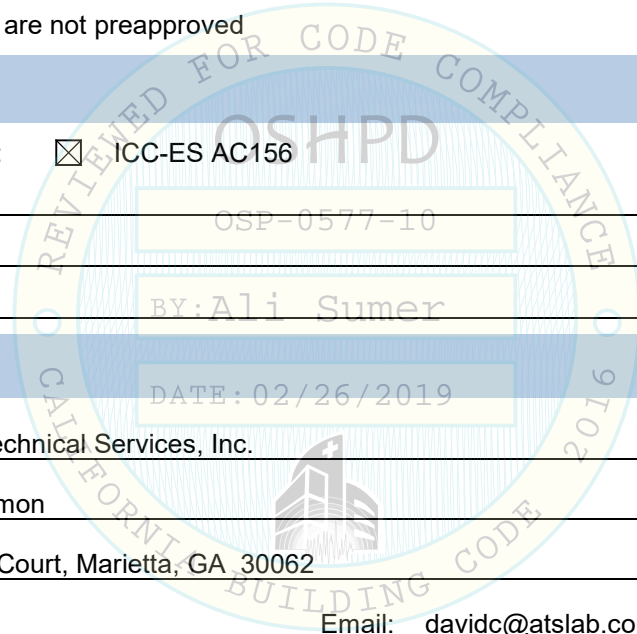
Telephone: 510 379 5319 Email: acoughlin@structint.com

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): _____



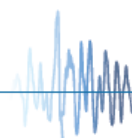
Testing Laboratory

Company Name: Applied Technical Services, Inc.

Contact Name: David Common

Mailing Address: 1049 Triad Court, Marietta, GA 30062

Telephone: 770.423.1400 Email: davidc@atslab.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) = 1.50 (Sds = 2.0, z/h=1), 1.13 (Sds = 2.5, z/h=0)

S_{DS} (Design spectral response acceleration at short period, g) = 2.0 (z/h=1), 2.5 (z/h=0)

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 (Sds=2.0), 0.0 (Sds = 2.5)

Equipment or Component Natural Frequencies (Hz) = See Attachment

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

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) = OSP-0577-10

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): Product and Subcomponent matrices, UUT summaries

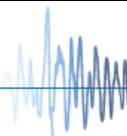
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature: Date: February 25, 2019

Print Name: Ali Sumer Title: DSE

Special Seismic Certification Valid Up to : S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable): _____

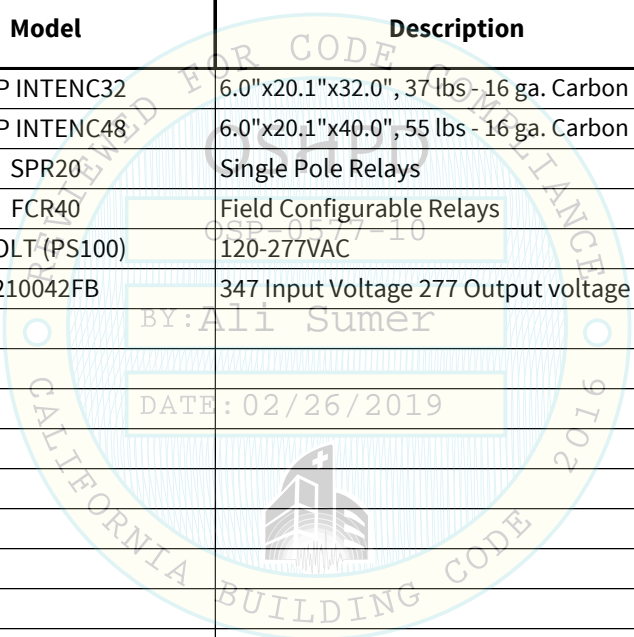


SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1800422



Manufacturer: Acuity Brands		Table Description: Enclosures and Electrical Components			TABLE 2
Model Line: nLight					
Building Code: CBC 2016		Seismic Certification Limits: $S_{DS} = 2.0g$ $z/h = 1.0$ $S_{DS} = 2.5g$ $z/h = 0.0$			$I_p = 1.5$
Component Type	Manufacturer	Model	Description	Notes	UUT
Enclosure	Acuity Brands	ARP INTENC32	6.0"x20.1"x32.0", 37 lbs - 16 ga. Carbon Steel		1
		ARP INTENC48	6.0"x20.1"x40.0", 55 lbs - 16 ga. Carbon Steel		2
Relay	Hongfa	SPR20	Single Pole Relays		1
		FCR40	Field Configurable Relays		2
Power Supply	Acuity Brands	MVOLT (PS100)	120-277VAC		1,2
Transformer	Craftsmen	210042FB	347 Input Voltage 277 Output voltage	Available with 32 or 48-Relay Encl.	1,2



SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

TRU PROJECT NO. 1800422



Manufacturer: Acuity Brands	Table Description: Enclosures and Electrical Components	TABLE 3
Model Line: Fresco		

Building Code: CBC 2016 **Seismic Certification Limits:** $S_{DS} = 2.0g$ $z/h = 1.0$ $I_p = 1.5$
 $S_{DS} = 2.5g$ $z/h = 0.0$

Component Type	Manufacturer	Model	Description	Notes	UUT
Enclosure	Acuity Brands	LMPM	3.5"x20.9"x47.5", 30 lbs - 18 ga. Carbon Steel	6 - Module Enclosure	3
		LMPL	3.5"x20.9"x61.4", 38 lbs - 18 ga. Carbon Steel	9 - Module Enclosure	4
Circuit Breaker	Eaton	FAZ-D20/1-NA-SP	120/277V, 20 AMP		3,4
Controller	Acuity Brands	801-0026-007	Controller Assembly		3,4
Dimmer		LM4A	weight: 4 lbs	Advanced phase dimming module	3,4
		LM4D	weight: 2 lbs	Phase dimming module	3
		LM4L	weight: 2 lbs	0-10v module	3
Switch		LM4R	weight: 2 lbs	Relay module	3
DALI Controller		LM2B	weight: 2 lbs	DALI Controller	3
Emergency Module		LME 924	weight: 1 lbs	Sets all modules to emergency cond.	3,4

UNIT UNDER TEST (UUT) SUMMARY SHEET



TRU PROJECT NO. 1800422

Manufacturer: Acuity Brands	UUT 1
Model Line: nLight	
Model Number: ARP INTENC48 NLT 48FCR CNDV 4VB HLK SM Serial Number: unknown	

Product Construction Summary:
Acuity Brands, nLight ARP Relay Panels; 16 ga. Carbon steel

Options/Subcomponent Summary:

- 32 Relay Enclosure, Key Locked
- 32 Single Pole Relays
- MVOLT 120-277VAC Power Supply
- Craftsmen (210042FB)Transformer

UUT Properties						
Weight (lb.)	Dimension (in.)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
73	6.0	20.1	32.0	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 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67	
		2.5	0.0						

Test Mounting Details:

- 5/16 Hex Lag Screws, 18-8 Stainless Steel

Detail A (4x)

Detail A

UUT 1 was secured to the test fixture using Qty. (4) - 5/16 Hex Lag Screws (18-8 Stainless Steel)
The 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. 1800422

Manufacturer: Acuity Brands	UUT 2
Model Line: nLight	
Model Number: ARP INTENC48 NLT 48FCR CNDV 4VB HLK SM Serial Number: 410-97977-001	

Product Construction Summary:
Acuity Brands, nLight ARP Relay Panels; 16 ga. Carbon steel

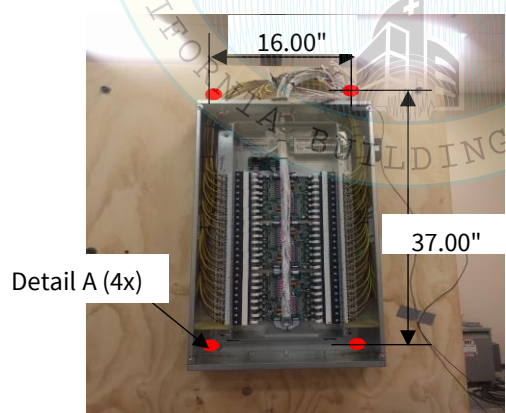
Options/Subcomponent Summary:

- 48 Relay enclosure, key locked
- 48-Field Configurable Relays
- MVOLT (120-277VAC) Power Supply
- Craftsmen (210042FB) Transformer

UUT Properties						
Weight (lb.)	Dimension (in.)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
95	6.0	20.1	40.0	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 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67	
		2.5	0.0						

Test Mounting Details:
- 5/16 Hex Lag Screws,
18-8 Stainless Steel



UUT 2 was secured to the test fixture using Qty. (4) - 5/16 Hex Lag Screws (18-8 Stainless Steel)
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. 1800422



Manufacturer: Acuity Brands	UUT 3
Model Line: Fresco	
Model Number: ARP INTENC48 NLT 48FCR CNDV 4VB HLK SM Serial Number: unknown	

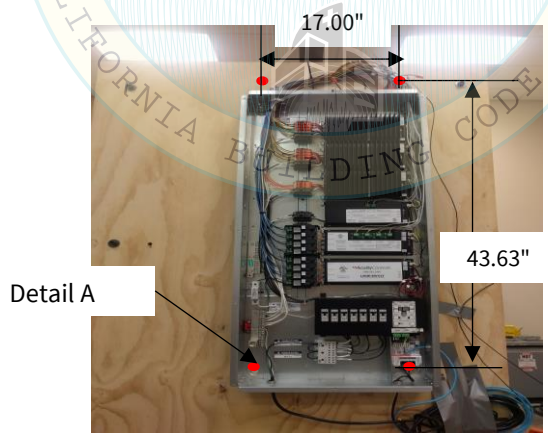
Product Construction Summary:
Acuity Brands, Fresco LMP Lighting Management Panels; 18 ga. Carbon steel

- Options/Subcomponent Summary:**
- LMPM enclosure, (6 module enclosure)
 - LM4L (Dimmer) (1x)
 - Controller/Power supply (801-0026-007)
 - LM4R (Switch) (1x)
 - Circuit Breaker (FAZ-D20/1-NA-SP) (7x)
 - LM2B (DALI Controller) (1x)
 - LM4A (Dimmer) (2x)
 - LME 924 (Emergency Module) (1x)
 - LM4D (Dimmer) (1x)

UUT Properties						
Weight (lb.)	Dimension (in.)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
69	3.5	20.9	47.5	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 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67	
		2.5	0.0						

Test Mounting Details:
- 5/16 Hex Lag Screws,
18-8 Stainless Steel



UUT 3 was secured to the test fixture using Qty. (4) - 5/16 Hex Lag Screws (18-8 Stainless Steel)
The 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. 1800422

Manufacturer: Acuity Brands	UUT 4
Model Line: Fresco	
Model Number: ARP INTENC48 NLT 48FCR CNDV 4VB HLK SM Serial Number: unknown	

Product Construction Summary:
Acuity Brands, Fresco LMP Lighting Management Panels; 18 ga. Carbon steel

Options/Subcomponent Summary:

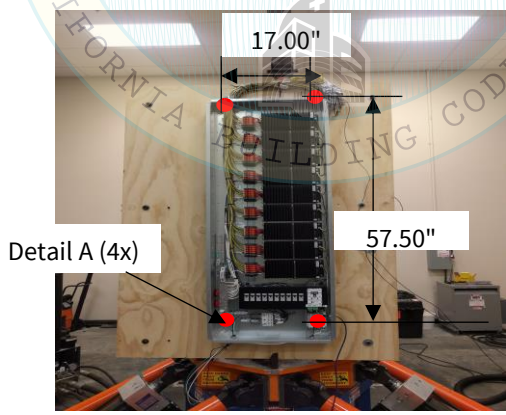
- LMPM enclosure, (6 module enclosure) •LME 924 (Emergency Module) (1x)
- Controller/Power supply (801-0026-007)
- Circuit Breaker (FAZ-D20/1-NA-SP) (10x)
- LM4A (Dimmer) (9x)

UUT Properties						
Weight (lb.)	Dimension (in.)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
103	3.5	20.9	61.4	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 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67	
		2.5	0.0						

Test Mounting Details:

- 5/16 Hex Lag Screws,



UUT 4 was secured to the test fixture using Qty. (4) - 5/16 Hex Lag Screws (18-8 Stainless Steel)
The unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.