

APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)	OFFICE USE ONLY APPLICATION #: OSP-0350-10
OSHPD Special Seismic Certification Preapproval (OSP)	
Type: 🛛 New 🗌 Renewal	
Manufacturer Information	
Manufacturer: Maquet, Inc.	
Manufacturer's Technical Representative:	lanager
Mailing Address: 45 Barbour Pond Drive, Wayne, NJ 07470	
Telephone: (888) 627-8383 Email: Rick.n	ncdaniel@maquet.com
Product Information	
Product Name: _LED Concealed Lighting System (CLS)	
Product Type: Mechanical Equipment	
Product Model Number: USPWD300 CLS (List all unique product identification numbers and/or part numbers) General Description: The CLS unit consists of a rigid ceiling-suspended cabinet, made to the test units and modifications required to address the anomalies observed Mounting Description: The unit is certified for a rigid ceiling mount installation.	·····
Applicant Information	
Applicant Company Name: DYNAMIC CERTIFICATION LABORATOR	RIES
Contact Person: JOSEPH L. LA BRIE, S.E., PRESIDENT / CEO	
Mailing Address: 1315 GREG STREET, SUITE 109, SPARKS, NV 894	431
Telephone: (775) 358-5085 Email: LABR	IE@MAKEITRIGHT.NET
I hereby agree to reimburse the Office of Statewide Health P accordance with the California Administrative Code, 2013. Signature of Applicant:	Planning and Development review fees in Date:7/24/13
	AMIC CERTIFICATION LABORATORIES
"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 1/24/13)	Page 1 of 3

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)											
Company Name: DYNAMIC CERTIFICATION LABORATORIES											
ame: DR. AHMAD ITANI, S.E. California License Number: SE-5220											
Mailing Address: 1315 GREG STREET, SUITE 109, SPARKS, NV 89431											
Telephone: (775) 358-5085 Email: ITANI@SHAKETEST.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: DYNAMIC CERTIFICATION LABORATORIES											

Contact Name: AUSTIN BROWN, P.E., LABORATORY MANAGER

Mailing Address: 1315 GREG STREET, SUITE 109, SPARKS, NV 89431

Telephone: (775) 358-5085

Email: AUSTIN@SHAKETEST.COM

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 1/24/13)

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OFFICE OF STATEWIDE HEALTH PLANNING FACILITIES DEVELOPMENT DIVISION	AND DEVELOPMENT
Design in accordance with ASCE 7-10 Chapter 13: 🛛 Yes 🗌 No	
Design Basis of Equipment or Components $(F_p/W_p) = 2.4$	
S_{DS} (Design spectral response acceleration at short period, g) = _2	00
a_p (In-structure equipment or component amplification factor) = <u>1.0</u>	
R_p (Equipment or component response modification factor) = <u>1.5</u>	
Ω_0 (System overstrength factor) = 1.5	
I_p (Importance factor) = 1.5	
z/h (Height factor ratio) = <u>1.0</u>	
Equipment or Component Natural Frequencies (Hz) = <u>SEE ATTAC</u>	
Overall dimensions and weight (or range thereof) = <u>SEE ATTACHN</u>	/ENT
Equipment or Components @ grade designed in accordance with ASCE 7-10 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, 2010: \Box Yes \boxtimes No	
List of Attachments Supporting Special Seismic Certification	
 ☑ Test Report(s) ☑ Drawings ☑ Calculations ☑ Other(s) (Please Specify): 	Manufacturer's Catalog
OSHPD Approval (For Office Use Only) – Approval Expires on Dec	ember 31, 2019
Signature:	Date: 7/25/2013
	Title: SHFR
Special Seismic Certification Valid Up to : $S_{DS}(g) = 2.0$	z/h =1.0
Condition of Approval (if applicable):	

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

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Special Seismic List of Tested Units



Manufacturer: Maquet, Inc.

Product Line: LED Concealed Lighting System (CLS)

Approved Mounting Description: Rigid ceiling suspended

Product Line	Serial	Description	Operating Weight	Cabinet Dimensions (inches)		Threaded Rod Hanger	Hanger Rod	Laterial Brace	Sds (g),	Unit	
			(pounds)	Length	Width	Height	Diameter (in)	Spacing (in)	Material	z/h=1	
Concealed Light System, Model USPWD300CLS	1211/2488	Retracted, door closed	395	66	32	17.25	25 1/2	32 1/8	1-5/8 inch slotted channel	2.0	UUT1a
		Extended, door open								2.0	UUT1b
	1011/0100	Retracted, door closed	395	66	32	17.25	5 1/2	32 1/8	1-5/8 inch slotted channel	2.0	UUT2a
	1211/2489	Extended, door open								2.0	UUT2b

Special Seismic Certification List of Certified Units



Manufacturer: Maquet, Inc.

Product Line: LED Concealed Lighting System (CLS)

Approved Mounting Description: Rigid ceiling suspended

Product Line	Description	Operating Weight		et Dimeı (inches)		Threaded Rod Hanger	Hanger Rod	Laterial Brace	Sds (g),	Unit
		-	Length	Width	Height	Diameter (in)	Spacing (in)	Material	z/h=1	
Concealed Light System, Model USPWD300CLS	Retracted, door closed	395	66	32	17.25	1/2	32 1/8	1-5/8 inch slotted	2.0	UUT1a, UUT1b, UUT2a, UUT2b
	Extended, door open	222	00			1/2		channel	2.0	

Special Seismic Certification **Certified Components**

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)) DCL Dynamic Certification Laboratories

Manufacturer: Maquet, Inc.

Product Line: LED Concealed Lighting System (CLS)

ARM ASSEMBLY										
Component No.	Component Mfg.	Description	Sds (g)	Unit						
567 501284	Maquet	Main 75	2.00	UU1a, UUT1b, UUT2a UUT2b						
567 501286	Maquet	Swing Arm 50-100 NM	2.00	UU1a, UUT1b, UUT2a UUT2b						
LIGHT HEAD										
Component No.	Component Mfg.	Description	Sds (g)	Unit						
568 330931	Maquet	PowerLED 300 SF K3	2.00	UU1a, UUT1b, UUT2a UUT2b						
		CONTROLLER								
Component No.	Component Mfg.	Description	Sds (g)	Unit						
1211E-45E-40E/7	Maquet	Exam light dimmer control	2.00	UU1a, UUT1b, UUT2a UUT2b						
1211E-45E-40E/8	Maquet	Master ON/OFF switch - illuminated red	Master ON/OFF switch - illuminated red 2.00							
1211E-45E-40E/10	Maquet	Door control switch - up/off-down positions	2.00	UU1a, UUT1b, UUT2a UUT2b						

UUT1a

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Maquet, Inc.

Product Line: LED Concealed Lighting System (CLS)

Model Number: USPWD300CLS (Serial Number: 1211/2488)

Product Construction Summary:

Powder-coated carbon steel

Options / Component Summary:

Tested with light retracted and door closed. 120V, rigid ceiling suspended cabinet, arm system, light head and controller

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

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			UU	T Properties				
Operating Weight		Cabinet	Dimensions (Lowest N	latural Freque	ency (Hz)		
(lb)	Length	W	idth	Не	ight	Front-Back	Side-Side	Vertical
395	66.0	3	2.0	17	.25	N/A	N/A	N/A
			Seismic	Test Paramet	ers			
Building Code	Test Criteria	Sds	z/h	lp	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53

Unit Mounting Description:



UUT1b

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Maquet, Inc.

Product Line: LED Concealed Lighting System (CLS)

Model Number: USPWD300CLS (Serial Number: 1211/2488)

Product Construction Summary:

Powder-coated carbon steel

Options / Component Summary:

Tested with door open and light extended. 120V, rigid ceiling suspended cabinet, arm system, light head and controller

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

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			UU	T Properties								
Operating Weight		Cabinet	Dimensions (Lowest N	latural Freque	ency (Hz)						
(lb)	(lb) Length Width Height		ight	Front-Back	Side-Side	Vertical						
395	66.0	3	2.0	17.25		N/A	N/A	N/A				
	Seismic Test Parameters											
Building Code	Test Criteria	Sds	z/h	lp	Aflx-H	Arig-H	Aflx-V	Arig-V				
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53				

Unit Mounting Description:



UUT2a

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Maquet, Inc.

Product Line: LED Concealed Lighting System (CLS)

Model Number: USPWD300CLS (Serial Number: 1211/2489)

Product Construction Summary:

Powder-coated carbon steel

Options / Component Summary:

Tested with light retracted and door closed. 120V, rigid ceiling suspended cabinet, arm system, light head and controller

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

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	UUT Properties												
Operating Weight		Cabinet	Dimensions (Lowest N	latural Freque	ency (Hz)							
(lb)	(lb) Length Width Hei		ight	Front-Back	Side-Side	Vertical							
395	66.0	3	2.0	17	2.25	N/A	N/A	N/A					
			Seismic	Test Paramet	ers								
Building Code	Test Criteria	Sds	z/h	lp	Aflx-H	Arig-H	Aflx-V	Arig-V					
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53					

Unit Mounting Description:



UUT2b

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Maquet, Inc.

Product Line: LED Concealed Lighting System (CLS)

Model Number: USPWD300CLS (Serial Number: 1211/2489)

Product Construction Summary:

Powder-coated carbon steel

Options / Component Summary:

Tested with door open and light extended. 120V, rigid ceiling suspended cabinet, arm system, light head and controller

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

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)) DCL Dynamic Certification Laboratories

			UU	T Properties								
Operating Weight		Cabinet	Dimensions (Lowest N	latural Freque	ency (Hz)						
(lb)	(lb) Length Width Height		ight	Front-Back	Side-Side	Vertical						
395	66.0	3	2.0	17.25		N/A	N/A	N/A				
	Seismic Test Parameters											
Building Code	Test Criteria	Sds	z/h	lp	Aflx-H	Arig-H	Aflx-V	Arig-V				
CBC 2013	2012 ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.33	0.53				

Unit Mounting Description:

