



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

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

OFFICE USE ONLY

APPLICATION #: OSP – 0530 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: GE Healthcare

Manufacturer's Technical Representative: Tom Farnow

Mailing Address: 3000 N. Grandview Blvd., Waukesha, WI 53188-1696

Telephone: 888-406-1101

Email: Tom.Farnow@gehseismic.com

Product Information

Product Name: 2-Monitor Mavig Suspension & Wall-Mounted LCD Monitor

Product Type: LCD Monitor

Product Model Number: See Attachment 1

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

General Description: LCD monitors and mountings.

Mounting Description: See Attachment 1

Applicant Information

Applicant Company Name: EASE Co.


Contact Person: Jonathan Roberson, S.E.

Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Telephone: (909) 606-7622

Email: j.roberson@easeco.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: 

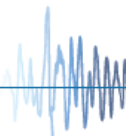
Date: July 1, 2017

Title: Principal Structural Engineer

Company Name: EASE Co.

"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 12/16/15)



OSHPD

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

Company Name: EASE Co.

Name: Jonathan Roberson, S.E. California License Number: S4197

Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Telephone: (909) 606-7622 Email: j.roberson@easeco.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): _____

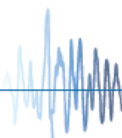
Testing Laboratory

Company Name: Environmental Testing Laboratory, Inc.

Contact Name: Brady Richard

Mailing Address: 11034 Indian Trail, Dallas, TX. 75229-3513

Telephone: (972) 247-9657 Email: brady@etldallas.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) = See Attachment 1

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) = See Attachment 1

R_p (Equipment or component response modification factor) = See Attachment 1

Ω_0 (System overstrength factor) = 2

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1 ($S_{DS} = 2.0$); 0 ($S_{DS} = 2.5$)

Equipment or Component Natural Frequencies (Hz) = See Attachment 2

Overall dimensions and weight (or range thereof) = See Attachment 1

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): Attachments 1 & 2

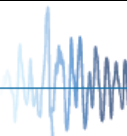
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature:  Date: October 11, 2017

Print Name: Timothy J. Pfland Title: SSE

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

Condition of Approval (if applicable): _____



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1:

COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _p /W _p	S _{DS}	z/h	a _p	R _p	Ω ₀
		W	D	H									
2-Monitor Mavig Suspension w/ Monitor Bridge 10 ft with Carriage Plate	2110767-4	120.5	R=85.8	35.5 – 83.6	272	Ceiling	1613-5	3.00 1.25	2.0 2.5	1 0	2 ½	3	2
Mavig Dual LCD Ceiling Monitor Support	GD4220-GE												
18" LCD Monitor(s) (Eizo)	6128455-3												
Wall-mounted LCD Monitor w/ 18 inch LCD Monitor (Eizo)	6128455-3	16.1	R=27.8	13.3	24.1	Wall	1613-7	3.60 1.50	2.0 2.5	1 0	2 ½	2 ½	2
Wall Mount Bracket (Ergotron)	2371592												
<i>Mount</i>	<p><u>CEILING (SUSPENDED)</u> refers to a condition where the unit is anchored to and suspended from a framing system at or slightly above the ceiling line of the room. <u>WALL</u> refers to a condition where the unit is fully supported by a building wall or partition.</p>												
<i>Notes</i>	<p>1. BASIS: <ul style="list-style-type: none"> • UUT#: Indicates that a unit matching these characteristics was tested. </p> <p>2. Weight of monitor suspension excludes the weight of longitudinal rails (5.79 lb/ft each rail)</p>												

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT1613-5 2-Monitor Mavig Suspension							
MANUFACTURER: GE Healthcare							
IDENTIFICATION: Component Monitor Bridge Mavig Dual LCD Ceiling Monitor Support LCD Monitor(s)				Model 211D767 GD4220-GE 6128455-3			
MOUNTING: Ceiling suspended using (5) – ½” dia. Grade 8 bolts to Unistrut P1010 channel nuts with springs spaced 26” o.c. to Unistrut P1001 spanning 39” max. typical each of two longitudinal rails.							
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Side-Axis		Front-Axis	Vert-Axis	
120.5	R=85.8	83.6	272+130 = 402	---	---	---	
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 CBC	
S_{DS} (G)	z/h	I_p	A_{FLX-H} (G)	A_{RIG-H} (G)	A_{FLX-V} (G)	A_{RIG-V} (G)	
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							



UUT1613-7 Wall Mounted LCD Monitor							
MANUFACTURER: GE Healthcare							
IDENTIFICATION: Component EIZO 18 inch LCD Monitor Ergotron Wall Mount Bracket (Ergotron B0125MA)				Model 6128455-3 2371592			
MOUNTING: Wall mounted using (6) – ¼” dia tek screws (self-tapping, self-threading hex washer head SMS) with washers through 5/8” gypsum wall board to 1/8” steel backing.							
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Longit -Axis		Transv-Axis	Vert-Axis	
16.1	R=27.8	13.3	24.1	---	---	---	
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 CBC	
S_{DS} (G)	z/h	I_p	A_{FLX-H} (G)	A_{RIG-H} (G)	A_{FLX-V} (G)	A_{RIG-V} (G)	
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							

