

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0716
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Siemens Healthcare GmbH	
Manufacturer's Technical Representative: Yuan Peng	
Mailing Address: Siemensstr 3, Forchheim, Forchheim 91301	
Telephone: (49162) 578-7300 Email: yuan.peng@sien	nens-healthineers.com
Product Information	
Product Name: X-Ray and Fluoroscopy Monitor Suspension Systems	D .
Product Model Number(s): See attachment	E.
Product Category: Fluoroscopy and Radiography Systems 16	i CH
Product Sub-Category: NA	
General Description: Ceiling and Wall Mounted Monitor suspension syst	ems for X-Ray and Fluoroscopy System.
Mounting Description: Several - See Certified Product Tables -	
Tested Seismic Enhancements: None DATE: 00/12/2023	
Applicant Information	
Applicant Company Name: WE Gundy & Associates, Inc	DY
Contact Person: Travis Soppe	
Mailing Address: PO Box 9121, Boise, ID 83707	
Telephone: (208) 342-5989 Email: tsoppe@wegai.c	om
Title: President	



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

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OSP-0716



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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: W.E. GUNDY & ASOCIATES 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 X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
FOR CODE CO.
Testing Laboratory
Company Name: IABG TEST LABORATORY
Contact Person: Steffen Roedling
Mailing Address: Einsteinstrasse 20, Ottobrunn Bavaria 85521
Telephone: (49896) 088-2052 Email: roedling@iabg.de
DATE: 06/12/2025
DATE: 06/12/2025
BUILDING



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Seismic Parameters

Design Basis of Equipment or Components	$(F_p/W_p) = 2.40 \text{ at } z / h = 1.0 \text{ and } 1.13 \text{ at } z / h = 0$							
SDS (Design spectral response acceleration at short period, g) = 2.0 at z / h = 1.0 and 2.5 at z / h = 0								
ap (Amplification factor) =	1							
Rp (Response modification factor) =	1.5							
Ω_0 (System overstrength factor) =	2.0							
lp (Importance factor) =	1.5							
z/h (Height ratio factor) =	1 and 0							
Natural frequencies (Hz) =	See Attachment							
Overall dimensions and weight =	See Attachment							
	ED FOLLOW							
HCAI Approval (For Office Use Only) -	Approval Expires on 06/12/2031							
Date: 6/12/2025	OSP-0716							
	Title: Supervisor, Health Facilities							
	BY Mohammad Karim							
Special Seismic Certification Valid Up to: SE	DS (g) = 2.0 $z/h = 1$							
Condition of Approval (if applicable):	DATE: 06/12/2025							
	PRIVIA BUILDING CODE:							



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OSP-0716

Table 1

SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



		D'	•)	***	Ι			
System Component ¹	Siemens Part Number		mensions (i	,	Weight (lb)	Mounting	UUT		
		-1	Width Suspension	Height	(10)				
	Dispia		Suspension	(DCS)					
Display Ceiling Suspension DCS-1 w/o TUI - 1 Monitor	11371813	20 - 101.0	98.8-140.4	38.2-79.9	154	ceiling	UUT _x -2		
Display Ceiling Suspension DCS-1/1 with TUI - 1 Monitor	11371815	20 - 101.0	98.8-140.4	46.9-88.9	190	ceiling	interpolated		
Display Ceiling Suspension DCS-2 w/o TUI - 2 Monitor	11371814	20 - 115.2	98.8-154.5	38.2-79.9	202	ceiling	interpolated		
Display Ceiling Suspension DCS-2/1 with TUI - 2 Monitor	11371816	20 - 115.2	98.8-154.5	46.9-88.9	211	ceiling	UUT _x -1		
Display Ceiling Suspension DCS-1/1 with TUI - 1 Monitor	11688715 11688593	22.4-101.0	104.2-170.4	46.9-88.9	221	ceiling	interpolated		
Display Ceiling Suspension DCS-1 w/o TUI - 1 Monitor	11688592 11688593		104.2-170.4 mad Karir	37.0-82.4	265	ceiling	UUT _y -5		
Display Wall Suspension (DWS)									
Display Wall Suspension DWS-1 - 1 Monitor	11371817A	52 - 90.9	52.0-90.9	35.2-83.5	97	wall	UUT _x -4		
Display Wall Suspension DWS-2 - 2 Monitor	11371818	63 - 105.1	63.0-105.1	43.1-85.0	110	wall	UUT _x -3		

¹ All components are manufactured by Siemens Healthcare GmbH. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units. TUI indicates the inclusion of the Siemens Touch User Interface.

² The units were tested at different times and the subscripts on the UUT's reference the following seismic certification test reports: x = TAB3-PB-21-057-V2 / y = TA-B-006469-V1

SEISMIC CERTIFICATION LIMITS										
System Component	Code	S _{DS} (g)	z / h	I _P	a _P	R _P	Ω ₀	$\mathbf{F}_{\mathbf{P}}$ / $\mathbf{W}_{\mathbf{P}}$		
Display Ceiling	CBC	2.0	1.0	1.50	1.0	1.5	2.0	2.40		
Suspension	2022	2.5	0	1.50	1.0	1.3	2.0	1.13		
Display Wall	CBC	2.0	1.0	1.50	1.0	1.5	2.0	2.40		
Suspension	2022	2.5	0	1.30	1.0			1.13		



EQ13.3-1	Max	Min	Fp / Wp
2.40	4.80	0.90	2.40
1.00	6.00	1.13	1.13
2.40	4.80	0.90	2.40
1.00	6.00	1.13	1.13

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rails and connecting parts of the Display Ceiling Suspension bolt with M10 bolts torqued at 36 ft-lb to unistrut grid spaced at 26.6" on center. The unistrut grid consisted of MURPO#150969 MPR-41/82/2.0 H-Profiles (Unistrut P1001 equivalent) anchored with 2 - M10 bolts with clamping claws (MURPO 157219) at each intersection to the ceiling fixture framing spaced at 23.6" on center.



Manufacture	er: Siemens Health	3G - Munic	h, Germany	y					
Component:	DCS-2/1 with TUI	- 2 Monitor	Test Date: April 2021						
Model Numb	Model Number: 11371816 Report Number: TAB3-PB-21-057-V2								
UUT Functio	on: Ceiling suspens	ion of monitors used for	or X-Ray and Fluoro	scopy syste	ems				
UUT Descrip	otion: Ceiling moni	tor suspension system							
		UUT PRO	PERTIES						
Waight (1h)		Dimensions (inches)		Natural Frequency (Hz)					
Weight (lb)	Depth	Width	Height	FB	SS	V			
211	115.2	154.5	46.9	N/A	N/A	N/A			

The ceiling suspended monitor support moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and the arm fully extended.

SEISMIC TEST PARAMETERS							
Building Code / Test Criteria	$S_{DS}(g)$	z / h	I _P	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}\left(g\right)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
	2.50	0.0	1.5	-	-	1.68	0.68

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rails and connecting parts of the Display Ceiling Suspension bolt with M10 bolts torqued at 36 ft-lb to unistrut grid spaced at 26.6" on center. The unistrut grid consisted of MURPO#150969 MPR-41/82/2.0 H-Profiles (Unistrut P1001 equivalent) anchored with 2 - M10 bolts with clamping claws (MURPO 157219) at each intersection to the ceiling fixture framing spaced at 23.6" on center.



		200000000000000000000000000000000000000						
Manufacture	r: Siemens Healthc	are GmbH	Test Location: IA	Test Location: IABG - Munich, Germany				
Component:	Component: DCS-1 w/o TUI - 1 Monitor			Test Date: April 2021				
Model Numb	er: 11371813	BUI	Report Number:	TAB3-PB-2	21-057-V2			
UUT Functio	n: Ceiling suspensi	ion of monitors used	d for X-Ray and Fluo	roscopy syst	ems			
UUT Descrip	tion: Ceiling monit	tor suspension syste	em					
		UUT PR	OPERTIES					
Weight (1h)		Dimensions (inches)			Natural Frequency (Hz)			
Weight (lb)	Depth	Width	Height	FB	SS	V		
154	101	101 140.4 38.2 N/A N/A N/A						
		-	, and extends up and dow ition with the system hori		-			

Tuny extended.								
SEISMIC TEST PARAMETERS								
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}						$A_{RIG-V}(g)$		
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-	
CDC 2022 / ICC-ES AC150	2.50	0.0	1.5	-	-	1.68	0.68	

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with 4 - M10 grade 8 bolts and washers.



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with 4 - M10 grade 8 bolts and washers.



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rails and connecting parts of the Display Ceiling Suspension bolt with M10 bolts torqued at 36 ft-lb to unistrut grid spaced at 26.6" on center. The unistrut grid consisted of MURPO#150969 MPR-41/82/2.0 H-Profiles (Unistrut P1001 equivalent) anchored with 2 - M10 bolts with clamping claws (MURPO 157219) at each intersection to the ceiling fixture framing spaced at 23.6" on center.



				INNIN				
Manufacture	r: Siemens Health	care GmbH	e GmbH Test Location: IABG - Munich, Germany					
Component:	DCS-1 w/o TUI -	1 Monitor		Test Da	te: Februar	y 2025		
Model Numb	er: 11688592 / 11	688593	BUILD	Report	Number: T	A-B-00646	69-V1	
UUT Functio	n: Ceiling suspens	ion of mon	itors used f	or X-Ray	and Fluoro	scopy syste	ems	
UUT Descrip	tion: Ceiling moni	tor suspens	sion system					
			UUT PRO	PERTIE	S			
Waight (1k)		Dimensions (inches)				Natural Frequency (Hz)		
Weight (lb)	Depth	W	idth	H	eight	FB	SS	V
265	79.2	104.2 37.0		N/A	N/A	N/A		
• •	ended monitor support system was tested in th		•		-		-	
		SEISN	IIC TEST	PARAM	ETERS			
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	I _P	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}\left(g\right)$	$A_{RIG-V}(g)$
CPC 2022 /	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CDC 2022 /	ICC-ES AC130	2.50	0.0	1.5	-	-	1.68	0.68