

Title: President

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-0865
HCAI Special Seismic Certification Preapproval (OSP)	
Type: X New Renewal	
Manufacturer Information	
Manufacturer: Siemens Healthineers AG	
Manufacturer's Technical Representative: Yuan Peng	
Mailing Address: Siemensstr. 3, 91301, Forchheim Germany	
Telephone: (49162) 578-7300 Email: yuan.peng@sier	mens-healthineers.com
Product Information	
Product Name: Fluoroscopy and Radiography Systems	Mp.
Product Model Number(s): See attachments	4
Product Category: Fluoroscopy and Radiography Systems	7
Product Sub-Category: Fluoroscopy and Radiography Systems	
General Description: Multi-component digital and analog radiographic m	edical imagining systems.
Mounting Description: Several - See Certified Product Tables and UUT S	heet
Tested Seismic Enhancements: None DATE: 10/16/2025	
Applicant Information	
Applicant Company Name: WE Gundy & Associates, Inc	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Contact Person: Travis Soppe	-0
Mailing Address: PO Box 9121, Boise, ID 83707	
Telephone: (208) 342-5989 Email: tsoppe@wegai.c	com

HCA

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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

California Licensed Structura	California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)									
Company Name: W.E. GUNDY &	ASOCIATES IN	C.								
Name: Travis Soppe		California Lice	nse Number: S6115							
Mailing Address: P.O. Box 9121, Boise, ID 83707										
Telephone: (208) 342-5989		Email: tsoppe@wegai.con	n							
Certification Method										
GR-63-Core X	CC-ES AC156	IEEE 344	IEEE 693	NEBS 3						
Other (Please Specify):										
Testing Laboratory										
Company Name: IABG TEST LAE	BORATORY		10.							
Contact Person: Steven Roedling										
Mailing Address: Einsteinstrasse	20, <mark>Ottobrunn B</mark>	avaria 85521	13							
Telephone: (49896) 088-2052		Email: roedling@iabg.de								
	B	Y: Mohammad Karim								
	D	ATE: 10/16/2025								
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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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

Seismic Parameters

Design Basis of Equipment or Components (Fp/Wp) = See Attachment

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) = See Attachment

Rp (Response modification factor) = See Attachment

 Ω_0 (System overstrength factor) = See Attachment

Ip (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 10/16/2031

Date: 10/16/2025

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.0 z/h = 1

Condition of Approval (if applicable):

DATE: 10/16/2025



"A healthier California where all receive equitable, affordable, and quality health care"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

Table 1

DCS - Rail Carriage

SIEMENS HEALTHINEERS AG SPECIAL SEISMIC CERTIFICATION **CERTIFIED SYSTEM AND COMPONENTS**



System: Great Barracuda X-Ray	y and Flouroscopy S	ystems		Manufact	turer: Si	emens Healt	hineers AG			
g , g , 1	Siemens	Di	mensions	s (in)	Weight	Manutina	1111752			
System Component ¹	Part Number	Width	Length	Height	$(lb)^3$	Mounting	UUT ²			
Ceiling Suspension X-Ray Tube										
Tube stand 3D V SF Carriage 3D 3m SF motorized	07042125 (stand) 07042091 (carriage)	119.0	167.0	33.0-103.0	803	ceiling	UUT _q -1			
Tube stand 3D V GB motorized Carriage 3D V 3m	11565245 (stand) 11565246 (carriage)	119.0	167.0	33.0-103.0	803	ceiling	interpolated			
Tube stand 3D V SF Carriage 3D 4m manual	07042125 (stand) 07042141 (carriage)	172.0	167.0	33.0-103.0	816	ceiling	UUT _q -2			
Tube stand 3D V GB motorized Carriage 3D V 4m	11565245 (stand) 11565247 (carriage)	172.0	167.0	33.0-103.0	847	ceiling	interpolated			
Tube stand 3D V GB semi-motor Carriage 3D V 3m	11565240 (stand) 07042133 (carriage)	172.0	167.0/	33.0-103.0	849	ceiling	UUT _u -1			
	Buc	ky Wall	Stands							
Bucky Wall Stand Wifi Detector	11506510 (stand) 11506513 (wifi)	31.9	33.1	86.3	426	floor	UUT _s -7			
Bucky Wall Stand Fixed Detector	11506510 (stand) 11506512 (fixed)	31.9	33.1	86.3	426	floor	UUT _r -8			
	Fluoroso	copy Pati	ient Tabl	les						
PIKE Classic dTF Table	11564199	185.86	283.0	69.0	3907	floor	UUT_{w} -1			
PIKE Remote dRF Table	11564200 11564299	85.8	75.2	81.5	3395	floor	UUT _w -2			
	Display	Ceiling S	Suspensi	on						
DCS - Ceiling Rail DCS - Monitor	11688593 11688592	104-170	22.4-79	37 - 82.4	265	ceiling	UUT _y -5			

All components are manufactured by Siemens Healthcare GmbH unless noted. Part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-componenent within the tested units.

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SEISMIC CERTIFICATION LIMITS

SEISMIC CERTIFICATION ENVIRE										
System Component	Code	$S_{DS}(g)$	z / h	I_P	a _P	R_{P}	Ω_0	$\mathbf{F}_{\mathbf{P}}$ / $\mathbf{W}_{\mathbf{P}}$		
Ceiling Suspension	CBC 2022	2.0	1.0	1.50	2.5	2.5	2.0	3.60		
X-Ray Tubes	CBC 2022	2.5	0	1.50	2.5	2.3	2.0	1.50		
Bucky Wall Stands	CBC 2022	2.0	1.0	1.50	1.0	1.5	2.0	2.40		
Bucky Wall Stallus		2.5	0					1.13		
dRF Patient Tables	CBC 2022	2.0	1.0	1.50	1.0	1.5	2.0	2.40		
arr Patient Tables		2.5	0	1.50	1.0	1.5	2.0	1.13		
Display Ceiling Suspension	CBC 2022	2.0	1.0	1.50	2.5	2.5	2.0	3.60		
		2.5	0	1.50	2.3			1.50		

The units were tested at different times and the subscripts on the UUTs reference the following seismic test reports:

 $p = TAF4 - PB - 17 - 033 - V1 \\ q = TAB3 - PB - 20 - 134 - V1 \\ r = TAB3 - PB - 21 - 148 - V1 \\ s = TAB3 - PB - 21 - 153 - V1 \\ t = TA - B - 002931 - V1 \\ t = TA - 002931$ u = TA-B-05196-V1v = TA-B-006924 V1w = TA-B-006466 V1x = TA-B-006468-V1y = TA-B-006469 V1

Patient table weights do not include simulated patient weights, see UUT summary sheets for simulated patient weights.

Table 1

SIEMENS HEALTHINEERS AG SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



System: Great Barracuda X-Ray	and Flouroscopy S	ystems		Manufact	t urer: Si	emens Healt	thineers AG
G 4 G 4	Siemens	Di	mensions	s (in)	Weight	Manutina	TITIO 2
System Component ¹	Part Number	Width	Length	Height	$(lb)^3$	Mounting	UUT ²
	Pa	atient Ta	bles				
Patient RAD Tab	le 1	31.5	96.9	20.3-37.6	1035	floor	UUT _u -3
Patient RAD Tab	le 2	31.5	83.9	19.6-36.0	883	floor	UUT _s -5
Patient RAD Tab	31.5	91.7	19.6-36.0	893	floor	UUT _s -4	
	Patient Table	e Subcon	nponents	Table			
Patient Table Subcomponents	Subcomponent ID	COD	FON	otes		J	JUT
Lifting Base	11168919	374 lb,	19.0 x 38	8.8 x (12.2-	30.3) in	UUT _u -3	
Lifting Base	11506889	407 lb, 19.7 x 35.1 x (12.2-30.3) in				UUT _s -4 / UUT _s -5	
Middle Module	11584323	253 lb, 20.9 x 56.0 x 5.9 in				UUT _s -4	I / UUT _s -5
Middle Module	11585049	SP-0 ₂₆	4 lb, 21.7	x 56.8 x 5.9	in	UUT _u -3	
Bucky Tray Module - Fixed	11667350 Moh	amm&	b, 26.0	x 21.7 x 4.2	in	UUT _u -3	
Bucky Tray Module - Wireless	11667780	66	b, 26.0	x 21.7 x 4.2	in	inter	polated
Bucky Tray Module - Wireless	11506861	10/169	b 1b, 26.0 x	x 21.7 x 4.2	in	UUT _s -4	I / UUT _s -5
Tabletop Module short	11368305	93	3 lb, 31.5 z	x 83.7 x 1.6	in	UI	JT _s -5
Tabletop Module regular	11145351	99	1b, 31.5	x 91.6 x 1.6	in	U	UT _s -4
Tabletop Module Conventional	11585042	11	0 lb, 31.5	x 96.7 x 1.4	l in	inter	polated
Tabletop Module Flat	11585030		0 lb, 31.5	x 96.9 x 1.4	l in	U	JT _u -3
Cover Module - Lift 1	11369055	40 lb,	22.0 x 56	.8 x (12.2-3	0.3) in	UUT _s -4	I / UUT _s -5
Cover Module - Lift 1 Advanced	11667871	44 lb,	22.0 x 61	.0 x (12.2-3	0.3) in	inter	polated
Cover Module - Lift 2 Advanced	11667805	44 lb,	22.0 x 61	.0 x (12.2-3	0.3) in	UI	JT _u -3

All components are manufactured by Siemens Healthcare GmbH unless noted. Part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-componenent within the tested units.

³ Patient table weights do not include simulated patient weights, see UUT summary sheets for simulated patient weights.

SEISMIC CERTIFICATION LIMITS									
System Component	Code	$S_{DS}(g)$	z / h	I_P	$\mathbf{a}_{\mathbf{P}}$	R_{P}	Ω_0	$\mathbf{F}_{\mathbf{P}}$ / $\mathbf{W}_{\mathbf{P}}$	
Patient Tables	CBC 2022	2.0	1.0	1.50	1.0	1.5	2.0	2.40	
	CBC 2022	2.5	0					1.13	

The units were tested at different times and the subscripts on the UUTs reference the following seismic test reports: $p = TAF4-PB-17-033-V1 \quad q = TAB3-PB-20-134-V1 \quad r = TAB3-PB-21-148-V1 \quad s = TAB3-PB-21-153-V1 \quad t = TA-B-002931-V1$ $u = TA-B-05196-V1 \quad v = TA-B-006924 \quad V1 \quad w = TA-B-006466 \quad V1 \quad x = TA-B-006468-V1 \quad y = TA-B-006469 \quad V1$

Table 1

SIEMENS HEALTHINEERS AG SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



System: Great Barracuda X-Ray and Flouroscopy Systems | Manufacturer: Siemens Healthineers AG

s , s , 1	Siemens	Dia	mensions	(in) Weight		Mounting	**************************************			
System Component ¹	Part Number	Width	Length	Height	$(lb)^3$	Mounting	UUT ²			
		Generato	ors							
Generator Polydoros RFX UG-R80-1WP	11011022 11011808	23.9	23.9	63.0	388	floor / wall	UUT _v -3			
Generator Polydoros RFX UG-R65-1WP	11011022 11011807	23.9	23.9	63.0	408	floor / wall	interpolated			
Generator Polydoros RFX UG-F80-1WP	11011022 11011805	23.9	23.9	63.0	472	floor / wall	interpolated			
Generator Polydoros RFX UG-F80-2WP	11011022 11011806	23.9	23.9	63.0	542	floor / wall	UUT _x -3			
Image Reconstruction System										
UIS PC Container pS20 PC	11513440 11513962	8.0	21.3	14.8	38	floor	UUT _t -1			
UIS PC Container pS22 PC	11688629 11513998	8.9	25.4	15.1	42	floor	interpolated			
IS PC Container pS22 PIKE PC	11688629 11513997	8.9	25.4	15.1	42	floor	UUT _x -6			
IS PC Container pS22 VF1X FluoroFD PC	11688800 Moh 11513968	ammad 13.4	29.0	21.7	79	floor	UUT _x -7			
IS PC Container pS22 VF1X RadFD PC	11688801 E:	103.46/	229.0	21.7	79	floor	interpolated			
IS PC Container W550 RAD PC	11105102	13.4	27.4	22.8	87	floor	UUT _p -7			
IS PC Container W550 Fluoro PC	11573929	13.4	27.4	22.8	90	floor	interpolated			
IS PC Container W550 PC	11105103	13.4	27.4	22.8	90	floor	UUT _p -6			

¹ All components are manufactured by Siemens Healthcare GmbH unless noted. Part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units.

SEISMIC CERTIFICATION LIMITS $\mathbf{F}_{\mathbf{P}} / \mathbf{W}_{\mathbf{P}}$ **System Component** Code Ω_0 $S_{DS}(g)$ I_p $\mathbf{R}_{\mathbf{P}}$ z/h $\mathbf{a}_{\mathbf{P}}$ 2.0 1.0 1.50 CBC 2022 1.50 2.5 6.0 2.0 Generators 2.5 0 1.13 2.0 1.0 1.44 Image Reconstruction System CBC 2022 1.50 1.0 2.5 2.0 1.13

The units were tested at different times and the subscripts on the UUTs reference the following seismic test reports:

p = TAF4-PB-17-033-V1 q = TAB3-PB-20-134-V1 r = TAB3-PB-21-148-V1 s = TAB3-PB-21-153-V1 t = TA-B-002931-V1

u = TA-B-05196-V1 $v = TA-B-006924_V1$ $w = TA-B-006466_V1$ x = TA-B-006468-V1 $y = TA-B-006469_V1$ Patient table weights do not include simulated patient weights, see UUT summary sheets for simulated patient weights.

	SIEMENS HEA	~~~			
TABLE 2	SPECIAL SEISMI	C CERTIFI	CATION	WE	GAI
	UNIT UNDE	R TEST INI	DEX	STRUCTURAL & EART	ASSOCIATES, INC.
UUT	System Component	Lab	Report #	Test Date	Tested S_{DS} z / h = 1.0
UUT _p -6	IS PC Container W550 PC	IABG, Munich	TAF4-PB-17-033-V1	2017	2.00
UUT _p -7	IS PC Container W550 RAD PC	IABG, Munich	TAF4-PB-17-033-V1	2017	2.00
UUT _q -1	Tube stand 3D V SF Carriage 3D 3m SF motorized	IABG, Munich	TAB3-PB-20-134-V1	2020	2.00
UUT _q -2	Tube stand 3D V SF Carriage 3D 4m manual	IABG, Munich	TAB3-PB-20-134-V1	2020	2.00
UUT _r -8	Bucky Wall Stand Fixed Detector	IABG, Munich	TAB3-PB-21-148-V1	2021	2.00
UUT _s -4	Patient RAD Table 3	IABG, Munich	TAB3-PB-21-153-V1	2021	2.00
UUT _s -5	Patient RAD Table 2	IABG, Munich	TAB3-PB-21-153-V1	2021	2.00
UUT _s -7	Bucky Wall Stand Wifi Detector	IABG, Munich	TAB3-PB-21-153-V1	2021	2.00
UUT _t -1	UIS PC Container pS20 PC	IABG, Munich	5 TA-B-002931_V1	2023	2.00
UUT _u -1	Tube stand 3D V GB semi-motor Carriage 3D V 3m	IABG, Munich	TA-B-005196-V1	2024	2.00
UUT _u -3	Patient RAD Table 1	IABG, Munich	TA-B-005196-V1	2024	2.00
UUT _v -3	Generator Polydoros RFX UG-R80-1WP	IABG, Munich	TA-B-006924_V1	2025	2.00
UUT _w -1	PIKE Classic dTF Table	IABG, Munich	TA-B-006466_V1	2025	2.00
UUT _w -2	PIKE Remote dRF Table	IABG, Munich	TA-B-006466_V1	2025	2.00
UUT _x -3	Generator Polydoros RFX UG-F80-2WP	IABG, Munich	TA-B-006468_V1	2025	2.00
UUT _x -6	IS PC Container pS22 PIKE PC	IABG, Munich	TA-B-006468_V1	2025	2.00
UUT _x -7	IS PC Container pS22 VF1X FluoroFD PC	IABG, Munich	TA-B-006468_V1	2025	2.00
UUT _y -5	DCS - Ceiling Rail DCS - Monitor DCS - Rail Carriage	IABG, Munich	TA-B-006469_V1	2025	2.00

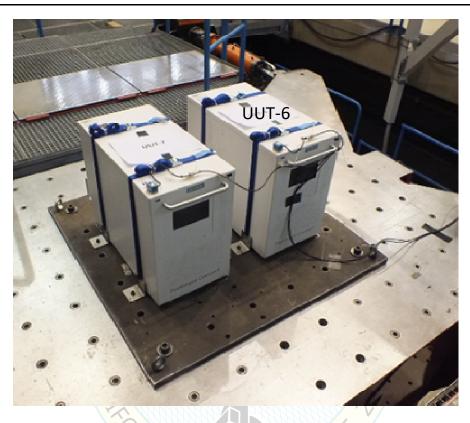
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UUT_p-6

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounting using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes two 1" wide hand tightened cam buckle straps (830lb WLL) looped thru angle brackets positioned on each side of the unit. The four angle brackets are attached to the table with individual M10 bolts.



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: IS PC Container / W550 RAD PC Test Date: January 2017

Model Number: 11105103 Report Number: TAF4-PB-17-033-V1

UUT Function: Computer for data acquisition, image reconstruction, and processing

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

Waight (lb)		Dimensions (inches)	Natural Frequency (Hz)			
Weight (lb) Width Depth	Height	FB	SS	V		
90	13.4	27.4	22.8	24.0	18.6	> 33

SEISMIC TEST PARAMETERS

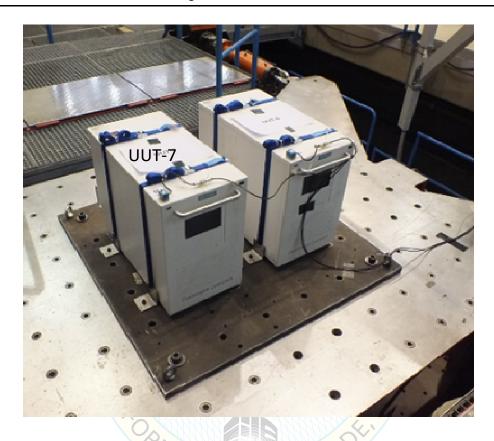
Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_P	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.20	1.0	1.5	3.52	2.64	1	-
	2.50	0.0	1.5	-	-	1.68	0.68

UUT_p-7

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounting using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes two 1" wide hand tightened cam buckle straps (830lb WLL) looped thru angle brackets positioned on each side of the unit. The four angle brackets are attached to the table with individual M10 bolts.



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: IS PC Container / W550 RAD PC Test Date: January 2017

Model Number: 11105102 Report Number: TAF4-PB-17-033-V1

UUT Function: Computer for data acquisition, image reconstruction, and processing

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

Waight (lb)		Dimensions (inches)	Natural Frequency (Hz)			
weight (10)	Weight (lb) Width Depth	Height	FB	SS	V	
87	13.4	27.4	22.8	27.1	18.1	> 33

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z/h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.20	1.0	1.5	3.52	2.64	-	-
	2.50	0.0	1.5	-	-	1.68	0.68

 $UUT_{q}-1$

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rails and connecting parts of the 3D Tube Stand 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.



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: Tube Stand 3D V SF / Carriage 3D 3m SF motorized Test Date: September 2020

Model Number: 07042125 (stand) / 07042091 (carriage) Report Number: TAB3-PB-20-134-V1

UUT Function: X-Ray stand, ceiling suspended, for use in radiography imaging, fully automated

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

	Weight (lb)		Natural Frequency (Hz)				
		Width	Depth	Height	FB	SS	V
	803	119	167	33-103	N/A	N/A	N/A

The ceiling suspended tube stand 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 with a downard extension of 32 in (height = 33in + 32in = 65in).

SEISMIC TEST PARAMETERS

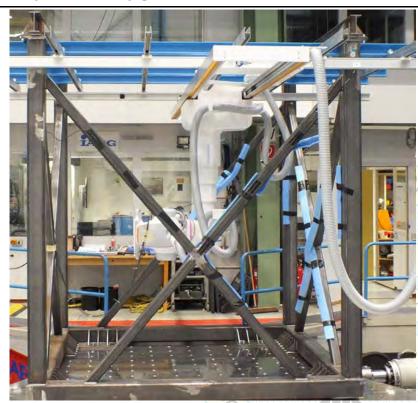
Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	1
	2.50	0.0	1.5	-	-	1.68	0.68

 $UUT_{q}-2$

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rails and connecting parts of the 3D Tube Stand 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.





Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: Tube Stand 3DV SF / Carriage 3D 4m manual Test Date: September 2020

Model Number: 07042125 (stand) / 07042141 (carriage) | **Report Number:** TAB3-PB-20-134-V1

UUT Function: X-Ray stand, ceiling suspended, for use in radiography imaging, manual

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

	Weight (lb)		Dimensions (inches)	Natural Frequency (Hz)			
		Width	Depth	Height	FB	SS	V
ſ	816	172	167	33-103	N/A	N/A	N/A

The ceiling suspended tube stand 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 with a downard extension of 32 in (height = 33in + 32in = 65in).

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	1
CBC 2022 / ICC-ES AC136	2.50	0.0	1.5	-	-	1.68	0.68

 UUT_r-8

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - M10 Gr. 8 bolts



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: Bucky Wall Stand / Venu1717X Core Fixed Detector Test Date: September 2021

Model Number: 11506510 (stand) / 11506512 (fixed) Report Number: TAB3-PB-21-148-V1

UUT Function: Radiographic wall stand for X-ray exposures

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems, includes Venu 1717X Core fixed detector (11333821), Tilting Module (11506310), Front Module cover_venu (11506697).

UUT PROPERTIES

Weight (lb)		Dimensions (inches)	Natural Frequency (Hz)				
weight (10)	Width	Depth	Height	FB	SS	V	
426 31.9 33.1			86.3	6.4	7.2	8.9	

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z/h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022 / ICC-ES AC130	2.50	0.0	1.5	-	-	1.68	0.68

 UUT_s-4

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted using 4 - M10 grade 10.9 bolts with washers



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: Patient RAD Table 3 Test Date: September 2021

Model Number: Patient RAD Table 3 Report Number: TAB3-PB-21-153-V1

UUT Function: Motorized patient table for support and positioning for image acquisition

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems, includes Mars 1717VS(Cor XL) detector, Lifting Base (11506889), Middle Module (11584323), Wireless Bucky Tray Module (11506861), Regular Table Top Module (11145351), and Lift 1 Cover (11369055)

UUT PROPERTIES

Weight w/		Dimensions (inches)	Natural Frequency (Hz)			
Patient(lb)	Width	Depth	Height	FB	SS	V
1,433	31.5 91.7		19.6-36.0	2.5	> 33	9.2

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 27.6", and a total simulated patient weight of 540lbs.

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	A _{FLX-H} (g)	A _{RIG-H} (g)	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CDC 2022 / ICC ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
CBC 2022 / ICC-ES AC156	2.50	0.0	1.5	-	-	1.68	0.68

 UUT_s -5

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted using 4 - M10 grade 10.9 bolts with washers



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: Patient RAD Table 2 Test Date: September 2021

Model Number: Patient RAD Table 2 Report Number: TAB3-PB-21-153-V1

UUT Function: Motorized patient table for support and positioning for image acquisition

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems, includes MAX wi-D pixium 3543 EZh detector (11105032), Lifting Base (11506889), Middle Module (11584323), Wireless Bucky Tray Module (11506861), Short Table Top (11368305), and Lift 1 Cover (11369055)

UUT PROPERTIES

	Weight w/		Dimensions (inches)	Natural Frequency (Hz)			
	Patient(lb)	Width	Depth	Height	FB	SS	V
ĺ	1,423	31.5	83.9	19.6-36.0	2.5	> 33	8.8

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 27.6", and a total simulated patient weight of 540lbs.

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CDC 2022 / ICC ES AC156	2.00	1.0	1.5	3.20	2.40	-	ı
CBC 2022 / ICC-ES AC156	2.50	0.0	1.5	-	-	1.68	0.68

 UUT_s-7

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - M10 Gr. 8 bolts



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: Bucky Wall Stand / Mars 1717VS Wifi Detector | Test Date: September 2021

Model Number: 11506510 (stand) / 11506513 (wifi) | **Report Number:** TAB3-PB-21-153-V1

UUT Function: Radiographic wall stand for X-ray exposures

UUT Description: Component of Siemens X-Ray Systems, includes Mars 1717VS(Cor XL) detector (1133822), Tilting Module (11506310), Front Module cover Mars (11506858).

UUT PROPERTIES

Weight (lb)		Dimensio	ns (inches)			Natural Frequency (Hz)			
weight (10)	Width	De	pth	Height		FB	SS	V	
426	31.9	33	.1	86.3		7.9	9.4	6.3	
SEISMIC TEST PARAMETERS									
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$	
CPC 2022	/ ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	1	
CBC 2022 /	ICC-ES AC130	2.50	0.0	1.5	-	-	1.68	0.68	

 $UUT_{t}-1$

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounting using Siemens seismic restraint kit SN:11107393. Seismic restraint kit includes a 1" wide hand tightened cam buckle straps (560lb WLL) looped thru angle brackets positioned on the long side of the unit. The four angle brackets are attached to the table with individual M8 grade 10.9 bolts.





Manufacturer: Siemens Healthcare GmbH	Test Location: IABG - Munich, Germany

Component: UIS PC Container / pS20PC Test Date: May 2023

Model Number: 11513440 / 11513962 **Report Number:** TA-B-002931_V1

UUT Function: User interface for radiography system.

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

Weight (lb)		Dimensions (inches)	Natural Frequency (Hz)			
	Width	Depth	Height	FB	SS	V
38	8.0	21.3	14.8	> 33	> 33	> 33

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z/h	I_P	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	1
	2.50	0.0	1.5	-	-	1.68	0.68

 $UUT_{u}-1$

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rails and connecting parts of the 3D Tube Stand bolt with M10 bolts torqued at 59 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 27.0" on center.



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: Tube Stand 3D V GB semi-motor / Carriage 3D V 3m Test Date: July 2024

Model Number: 11565240 (stand) / 07042133 (carriage) | Report Number: TA-B-005196-V1

UUT Function: X-Ray stand, ceiling suspended, for use in radiography imaging, fully automated

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

Weight (lb)		Dimensions (inches)	Natural Frequency (Hz)			
	Width	Depth	Height	FB	SS	V
849	172	167	33-103	NA	NA	NA

The ceiling suspended tube stand 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 with a downard extension of 26in (height = 33in + 26in = 59in).

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	1
CBC 2022 / ICC-ES AC130	2.50	0.0	1.5	-	-	1.68	0.68

 $UUT_{u}-3$

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted using 4 - M12 grade 10.9 bolts with washers



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: Patient RAD Table 1 Test Date: July 2024

Model Number: Patient RAD Table 1 Report Number: TA-B-005196-V1

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems, includes Pixium 4343R-RCE detector (11020773), Lifting Base (11168919), Middle Module (11585049), Fixed Bucky Tray Module (11667350), Flat Table Top Module (11585030), and Lift 2 Advanced Cover (11667805)

UUT PROPERTIES

Weight w/		Dimensions (inches)	Natural Frequency (Hz)			
Patient(lb)	Width	Depth	Height	FB	SS	V
1,575	31.5	96.9	20.3-37.6	17.6	8.0	7.5

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 27.6", and a total simulated patient weight of 540lbs.

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	A _{RIG-H} (g)	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1	1
	2.50	0.0	1.5	-	-	1.68	0.68

 UUT_v-3

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor and wall mounting using 4 - M10 grade 10.9 anchors to the floor and 2 - M6 grade A5 screws to the wall.



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: Generator Polydoros RFX (UG-R80-1WP) Test Date: July 2025

Model Number: 11011022 / 11011808 **Report Number:** TA-B006924_V1

UUT Function: Regulate voltage, power distruibution

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

Weight (lb)		Dimensions (inches)	Natural Frequency (Hz)			
	Width	Depth	Height	FB	SS	V
388	23.9	23.9	63.0	NA	NA	NA

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1	-
	2.50	0.0	1.5	-	-	1.68	0.68

 $UUT_{w}-1$

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted using 12 - M12 grade 12.9 bolts



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: PIKE Classic dTF Table Test Date: February 2025

Model Number: 11564199 Report Number: TA-B-006466_V1

UUT Function: Motorized patient table for support and positioning for image acquisition

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems.

UUT PROPERTIES

Weight w/		Dimensions (inches)	Natural Frequency (Hz)			
Patient(lb)	Width	Depth	Height	FB	SS	V
4,445	85.8	83.0	69.0	6.9	3.1	3.3

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 37.4", and a total simulated patient weight of 538 lbs.

SEISMIC TEST PARAMETERS

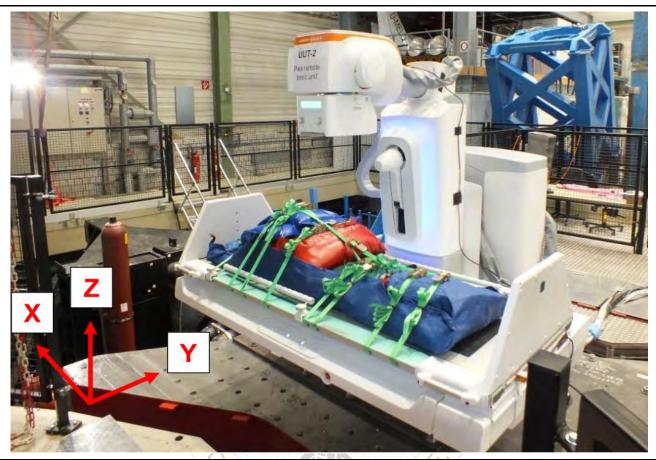
Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_P	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	1
CBC 2022 / ICC-ES AC130	2.50	0.0	1.5	-	-	1.68	0.68

 $UUT_{w}-2$

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted using 6 - M12 grade 12.9 bolts



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: PIKE Remote dRF Table / Seismic Kit | Test Date: February 2025

Model Number: 11564200 / 11564299 **Report Number:** TA-B-006466_V1

UUT Function: Motorized patient table for support and positioning for image acquisition

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems.

UUT PROPERTIES

Weight w/		Dimensions (inches)	Natur	al Frequenc	y (Hz)	
Patient(lb)	Width	Depth	Height	FB	SS	V
3,977	85.8	75.2	81.5	4.2	4.0	4.1

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 31.5", and a total simulated patient weight of 582 lbs.

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	ı
CBC 2022 / ICC-ES AC130	2.50	0.0	1.5	-	-	1.68	0.68

 UUT_x-3

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor and wall mounting using 4 - M10 grade 10.9 anchors to the floor and 2 - M6 grade A5 screws to the wall.



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: Generator Polydoros RFX (UG-F80-2WP) Test Date: February 2025

Model Number: 11011022 / 11011806 **Report Number:** TA-B006468_V1

UUT Function: Regulate voltage, power distruibution

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

Weight (lb)		Dimensions (inches)	Natural Frequency (Hz)			
weight (10)	Width	Depth	Height	FB	SS	V
542	23.9	23.9	63.0	NA	NA	NA

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_P	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	1
	2.50	0.0	1.5	-	-	1.68	0.68

 UUT_x-6

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounting using Siemens provided seismic restraint kit SN:11107393. Seismic restraint kit includes two 1" wide hand tightened cam buckle straps (830lb WLL) looped thru angle brackets positioned on each side of the unit. The four angle brackets are attached to the table with individual M8 Grade 10.9 bolts.



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: IS PC Container / pS22 PIKE PC Test Date: February 2025

UUT Function: Computer for data acquisition, image reconstruction, and processing

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

Ī	Weight (lh)		Dimensions (inches)	Natural Frequency (Hz)			
	Weight (lb)	Width	Depth	Height	FB	SS	V
Ī	42	8.9	25.4	15.1	> 33	16.7	> 33

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	ı
	2.50	0.0	1.5	-	-	1.68	0.68

 UUT_x-7

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounting using Siemens provided seismic restraint kit SN:11107393. Seismic restraint kit includes two 1" wide hand tightened cam buckle straps (830lb WLL) looped thru angle brackets positioned on each side of the unit. The four angle brackets are attached to the table with individual M8 Grade 10.9 bolts.



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: IS PC Container / pS22-VF1X FluoroFD PC Test Date: February 2025

UUT Function: Computer for data acquisition, image reconstruction, and processing

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

Weight (lb)		Dimensions (inches)	Natural Frequency (Hz)			
Weight (lb)	Width	Depth	Height	FB	SS	V
79	13.4	29.0	21.7	> 33	18.3	> 33

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	1
	2.50	0.0	1.5	-	-	1.68	0.68

 UUT_y-5

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rails and connecting parts of the rail carriage 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.



Manufacturer: Siemens Healthcare GmbH Test Location: IABG - Munich, Germany

Component: DCS - Ceiling Rail / Monitor / Rail Carriage Test Date: February 2025

Model Number: 11688593 / 11688592 / 11688746 Report Number: TA-B-006469 V1

UUT Function: Ceiling suspsension for monitors used for X-Ray and Flouroscopy systems

UUT Description: Component of Siemens Great Barracuda X-Ray and Flouroscopy Systems

UUT PROPERTIES

Weight (lb)		Dimensions (inches)	Natural Frequency (Hz)			
	Width	Depth	Height	FB	SS	V
265	104 - 170	22.4 - 79	37 - 82.4	NA	NA	NA

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)	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1	1
	2.50	0.0	1.5	-	-	1.68	0.68