

### DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

### APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

**APPLICATION #: OSP-0545** 

HCAI	Special	Seismic	Certification	Preapproval (OSP)	
		•••••	•••••••••••		

Type:

X Renewal

### Manufacturer Information

New

Manufacturer: Siemens Healthcare GmbH, Advanced Therapies, HC AT R&D HW

Manufacturer's Technical Representative: Martin Knierim

Mailing Address: Siemensstr. 1, 91301 Forchheim, Germany

Telephone: +49 9191 189539

Email: martin.knierim@siemens-healthineers.com

### Product Information

Product Type: NA

Product Name: Motorized Operating Table Systems

Product Model Number: See Attachment

General Description: Multiple component operating table system used for interventional patient procedures.

Mounting Description: Rigid floor mounted and Rigid floor/wall mounted None

**Applicant Information** 

Applicant Company Name: W.E. Gundy & Associates, Inc.

Contact Person: Travis Soppe

**Tested Seismic Enhancements:** 

Mailing Address: 1199 Shoreline Dr. Suite 310, Boise, ID 83702

Telephone:	(208) 342-5989	Email:	tsoppe@wegai.com

26/2

Title: Vice President

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







# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Respons	sible 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	CODECO
Testing Laboratory	MA
Company Name: IABG TEST LABORATORY	
Contact Person: Dr. Steffen Roedling	
Mailing Address: Einsteinstrasse 20, D-85521 Ottobrunn	, Germany
Telephone: +49 89 6088 2052	roedling@iabg.de
DATE:	04/26/2023
	*
PATA	
DATE: TROPNIA B	JILDING

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HCAi



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# Seismic Parameters

Desig	n Basis of Equipment or Components	(Fp/Wp) =	See Attachments							
	SDS (Design spectral response accele	eration at sh	ort period, g) = $2.00$ (	z/h = 1.0) and	2.50 (z/h = 0.0)					
	ap (Amplification factor) = See attachments									
	Rp (Response modification factor) =	See attach	ments							
	$\Omega_0$ (System overstrength factor) =	See Attach	ment							
	Ip (Importance factor) =	1.5								
	z/h (Height ratio factor) =	1 and 0								
	Natural frequencies (Hz) =	See Attach	ment							
	Overall dimensions and weight =	See Attach	CON	1pj						
HCA	Approval (For Office Use Only)	Approval		029						
Date:	4/26/2023		DSP-0545							
Name	e: Mohammad Karim	<b>DV</b> ·M	abammad Karim	Title:	Supervisor, Health Facilities					
Speci	al Seismic Certification Valid <mark>Up to</mark> : St	os (g) = <u>Se</u>	e Above	z/h =	See Above					
Condi	tion of Approval (if applicable):	DATE	04/26/2023							
		ORNIA E	UILDING CO	DE-20						

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### **SIEMENS HEALTHCARE GmbH** SPECIAL SEISMIC CERTIFICATION **CERTIFIED SYSTEM AND COMPONENTS**



Manufacturer: Siemens Healthcare GmbH

### **System:** Artis Interventional System

Siemens	Din	nensions	(in)	Weight	t Mounting	UUT	
Part Number	Width Length 1		Height	(lb)	wounting	UUI	
10992200	113.6	27.0	38.0	1,200 <sup>2</sup>	floor	UUT-1A/B	
11115700	39.4	25.6	74.8	870	floor / wall	UUT-2	
10910323	23.7	37.2	28.0	290	floor	UUT-3	
10848724	23.6	19.N	11.8	55 <sup>3</sup>	floor	UUT-4	
11321256	16.5	20.5	30.7	80 <sup>3</sup>	floor	UUT-5	
	Part Number   10992200   11115700   10910323   10848724	Part Number Width   10992200 113.6   11115700 39.4   10910323 23.7   10848724 23.6	Part Number Width Length   10992200 113.6 27.0   11115700 39.4 25.6   10910323 23.7 37.2   10848724 23.6 19.1	Part Number Width Length Height   10992200 113.6 27.0 38.0   11115700 39.4 25.6 74.8   10910323 23.7 37.2 28.0   10848724 23.6 19.1 11.8	Part Number Width Length Height (lb)   10992200 113.6 27.0 38.0 1,200 <sup>2</sup> 11115700 39.4 25.6 74.8 870   10910323 23.7 37.2 28.0 290   10848724 23.6 19.1 11.8 55 <sup>3</sup>	Part Number Width Length Height (lb) Mounting   10992200 113.6 27.0 38.0 1,200 <sup>2</sup> floor   11115700 39.4 25.6 74.8 870 floor / wall   10910323 23.7 37.2 28.0 290 floor   10848724 23.6 19.1 11.8 55 <sup>3</sup> floor	

### Notes:

Notes: OSP-0545 All components are manufactured by Siemens Healthcare GmbH unless noted. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-componenent within the tested units.

04/26/2023

NG CODE

Patient table weight does not include 510lb simulated weight.

Cooling unit weights include operating fluids.

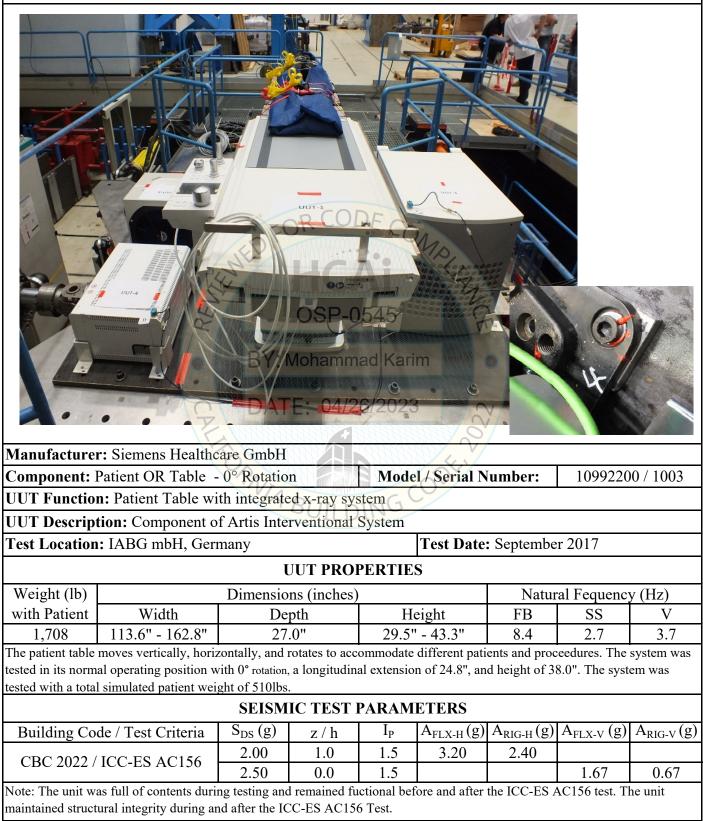
### SEISMIC CERTIFICATION LIMITS **System Component** Code z / h Ip Rp Ω F<sub>P</sub> / W<sub>P</sub> $S_{DS}(g)$ ap 2.0 1.0 2.40 Patient Table OR CBC 2022 1.50 1.0 1.5 1.5 2.5 0 1.13 2.0 1.0 1.50 SC Main VE CBC 2022 1.50 2.5 6.0 2.0 2.5 0 1.13 2.0 1.0 1.44 AXIS-VE CBC 2022 1.50 1.0 2.5 2.0 2.5 0 1.13 2.0 1.0 1.44 FD Cooling CBC 2022 1.50 1.0 2.5 2.0 2.5 0 1.13 2.0 1.0 1.44 CBC 2022 1.50 1.0 2.5 2.0 Tube Cooling Unit 2.5 0 1.13

UUT-1A

## UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - M16 grade 10.9 bolts

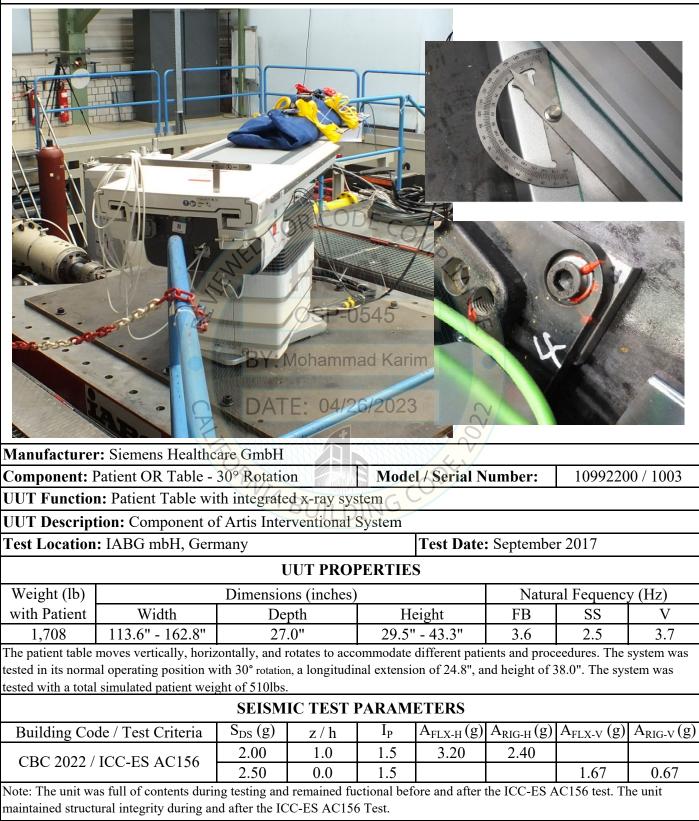


UUT-1B

## UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - M16 grade 10.9 bolts



### UUT-2

# UNIT UNDER TEST (UUT) SUMMARY SHEET



**Mounting Details:** Rigid Floor/Wall mount with 2 - M10 grade 8.8 bolts to the floor and 4 - M6 grade 8.8 bolts to the wall fixture. The M6 bolts to the wall fixture are connected to the UUT with 2 - L3x4x0.25x3" A36 angle brackets and 2 - M12 grade 8.8 bolts.



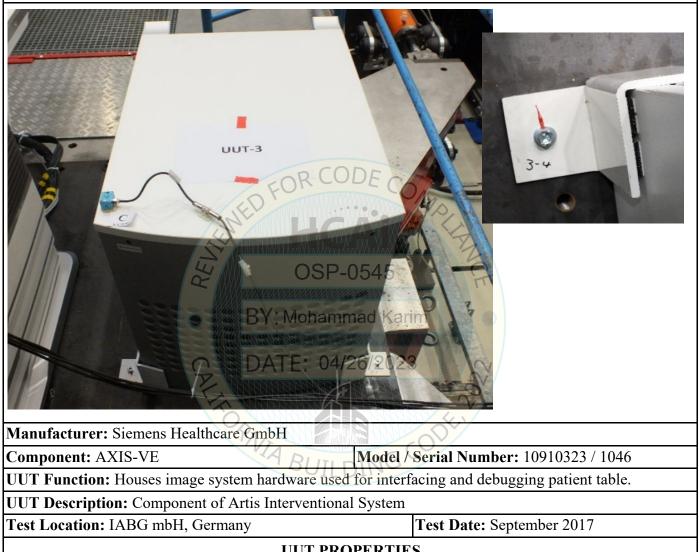
Manufacture	r: Siemens Health	care Gmbr	DUT	TALG				
Component: System Cabinet Model / Serial Number: 11115700 / 1042								0 / 1042
<b>UUT Functio</b>	n: System Cabinet	hosting O	R Patient T	Table con	nputers and	control cor	nponents	
UUT Descrip	tion: Component of	of Artis Int	erventional	l System				
Test Location	n: IABG mbH, Ger	rmany			Test Date	: Septembe	r 2017	
		ا	UUT PRO	PERTIE	ES			
$W_{2} = 1.4 (11.)$		)	Natura			al Fequency (Hz)		
Weight (lb)	Width	De	pth	Height		FB	SS	V
870	39.4"	25	.6"	7	'4.8"	>33	17.0	>33
		SEISM	IC TEST	PARAN	IETERS			
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	I <sub>P</sub>	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CPC 2022 /	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40		
CBC 2022 /	ICC-ES ACISO	2.50	0.0	1.5			1.67	0.67
	as full of contents dur tural integrity during a	0 0			efore and after	r the ICC-ES	AC156 test. T	The unit

# UUT-3

# UNIT UNDER TEST (UUT) SUMMARY SHEET



**Mounting Details:** Rigid Floor mounted using Siemens provided seismic restraint kit. Seismic restraint kit includes steel corner brackets bolted to the floor with 4 - M10 grade 8.8 bolts and attached to the unit with 2"x2" 3M Dual Lock (SJ3550).



UUI PROPERTIES										
Weight (1h)		Dimensio	Natural Fequency (Hz)							
Weight (lb)	Width	De	pth	Height		FB	SS	V		
290	23.7"	37	37.2"		28.0"		18.1	27.2		
		SEISM	IC TEST	PARAM	ETERS					
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	IP	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$		
CBC 2022 / ICC-ES AC156		2.00	1.0	1.5	3.20	2.40				
CBC 2022 /	ICC-ES AC150	2.50	0.0	1.5			1.67	0.67		

Note: The unit was full of contents during testing and remained fuctional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

### UUT-4

# UNIT UNDER TEST (UUT) SUMMARY SHEET



**Mounting Details:** Rigid Floor mounted using Siemens provided seismic restraint kit. Seismic restraint kit includes steel corner brackets bolted to the floor with 4 - M6 grade 8.8 bolts and attached to the unit with 2"x2" 3M Dual Lock (SJ3550).



# UNIT UNDER TEST (UUT) SUMMARY SHEET



**Mounting Details:** Rigid Floor mounted using Siemens provided seismic restraint kit. Seismic restraint kit includes steel corner brackets bolted to the floor with 4 - M10 grade 8.8 bolts and attached to the unit with 2"x2" 3M Dual Lock (SJ3550).

Manufacturer: Siemens Healthcare CmbH									
_	Tube Cooling Unit		BLITE	Model /	Serial Nu	mber: 1132	21256 / 000	01	
<b>UUT Functio</b>	on: Chiller cooling	unit for x-r	ay system	711.					
	otion: Component of		erventional	l System					
Test Location	n: IABG mbH, Gei	rmany			Test Date	: Septembe	er 2017		
		1	UUT PRO	PERTIE	ES				
Weight (lb)		Dimensio	ns (inches)	)		Natur	al Fequency	y (Hz)	
with fluid	Width	De			eight	FB	SS	V	
80	16.5"	20	.5"	3	0.7"	30.0	30.0	>33	
		SEISM	IC TEST	PARAM	IETERS				
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	IP	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$	
CBC 2022	/ ICC-ES AC156	2.00	1.0	1.5	3.20	2.40			
		2.50	0.0	1.5			1.67	0.67	
	vas full of contents dur etural integrity during a				efore and after	r the ICC-ES	AC156 test. T	'he unit	