

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0723

HCAI Special Seismic Certification Preapproval (OSP)

Type: X New

Renewal

Manufacturer Information

Manufacturer: Siemens Healthcare GmbH, Diagnostic Imaging, Computed Tomography

Manufacturer's Technical Representative: Don Medlar

Mailing Address: Siemensstraße 3, 91301 Forchheim, Germany

Telephone: +49 (9191) 18-6521

Email: don.medlar@siemens-healthineers.com

Product Information

Product Name: CT Syste	ems
Product Type: NA	QSP 0723
Product Model Number:	SOMATOM X.ceed CT System
General Description:	Multiple component system for producing Computed Tomography (CT) medical images for a wide variety of medical diagnostic results.
Mounting Description:	Rigid, Floor Mounted
Tested Seismic Enhance	ements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.
Applicant Information	n Op
Applicant Company Nam	ne: W.E. GUNDY & ASOCIATES INC
Contact Person: Travis	Soppe
Mailing Address: P.O. B	ox 9121, Boise, ID 83707
Telephone: (208) 342-5	989 Email: tsoppe@wegai.com

Title: President



STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

HC



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

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):
EOR CODE CO.
Testing Laboratory
Company Name: IABG TEST LABORATORY
Contact Person: Steffen Roedling
Mailing Address: Einsteinstrasse 20, Ottobrunn, Germany D-85521
Telephone: +49 (0) 89 / 6088-2052 Email: roedling@iabg.de
C DATE: 01/28/2022
DATE: 01/28/2022
PNT STORES
BUILDING

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





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Seismic Parameters

Design Basis of F	auipment or Components	$(F_p/W_p) =$	See Attachment								
-	Design Basis of Equipment or Components $(F_P/W_P) =$ See AttachmentSDS (Design spectral response acceleration at short period, g) = 2.0 at $z/h = 1.0$ and 2.5 at $z/h = 0$										
ap (Amplific	cation factor) =	1.0									
Rp (Respor	nse modification factor) =	See Attachment									
Ω₀ (System	overstrength factor) =	2.0									
Ip (Importar	nce factor) =	1.5									
z/h (Height	ratio factor) =	1 and 0									
Natural free	quencies (Hz) =	See Attachment									
Overall dim	ensions and weight =	See Attach	ment ODF co								
		JED FO	ON.	10/2							
HCAI Approval	(For Office Use Only) -	Approval I	Expires on 01/28/20	28							
Date: 1/28/202	22		DSP-0723	G							
Name: Moham	mad Karim			Title:	Supervisor, Health Facilities						
Special Seismic C	Certification Valid Up to: St	os (g) = <u>See</u>	e Above	z/h =	See Above						
Condition of Appr	oval (if applicable) <mark>:</mark>	DATE	01/28/2022	1/0							
		PRIVIA 6	PUTI DING CO	DE:							

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



TABLE 1

SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



Manufacturer: Siemens Healthcare GmbH

System: SOMATOM X.ceed CT System

v	5										
Sustan Company	Siemens	Г)imensions ((in)	Weight	Mounting	UUT ²				
System Component ¹	Part Number	Width	Depth	Height	(lb)	Mounting					
Gantries											
SOMATOM X.ceed (air cooled)	11330002	99.8	37.7	78.1	4554	floor	UUT-1				
SOMATOM X.ceed (water cooled)	11330002	99.8	37.7	78.1	4748	floor	UUT-2				
		FOPa	tient Tabl	e							
Vario 2.D PHS	11061335	27.6	97.6-179.5	24.0-40.7	802 ²	floor	UUT-3				
Image Reconstruction - UPS											
UPS-Rack with IRS	11331272	15.4	32.7	22.5	167	floor	UUT-4				
1			amma <u>q k</u> a				1 1 1 10				

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

² Patient table weights listed do not include simulated patient weight used for test. See UUT summary sheet for simulated patient weight.

OPNIA BUILDING CODE

SEISMIC CERTIFICATION LIMITS										
System Component	Code	S _{DS} (g)	z / h	I _P	a _P	R _P	Ω ₀	$\mathbf{F}_{\mathbf{P}}$ / $\mathbf{W}_{\mathbf{P}}$		
Gantries	CBC 2019	2.0	1.0	1.50	1.0	1.5	2.0	2.40		
		2.5	0		1.0			1.13		
Patient Tables	CBC 2019	2.0	1.0	1.50 1.0	1.0	1.5	2.0	2.40		
ratient rables		2.5	0		1.0			1.13		
UPS-Rack with IRS	CBC 2019	2.0	1.0	1.50	1.0	2.5	2.0	1.44		
		2.5	0				2.0	1.13		

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (5) 5/8" grade 8 bolts

Manufacturer: Siemens Healthcare GmbH Component: X.cced Gantry (air cooled)									
Model Numbe					Number:		21-074-V1		
UUT Functior	1: Continuous r	otating x-ray	to genera						
UUT Descript	ion: Gantry wi	th air cooling	for the S	OMATO	M X.ceed C	T system.			
UUT Modifica	ations: Modific the stand	ations require dard production		UUT to j	pass the seisr	nic test wil	l be incorp	orated in	
		I	JUT PRC	PERTI	ES				
W_{a}	Di	mensions (ind	ches)		N	latural Freq	uency (Hz)	
Weight (lb)	Width	Depth	He	ight	FB	SS	5	V	
4,554	99.8	37.7	78	3.1	12.7	6.4	4	26.1	
		SEISM	IC TEST	PARA	METERS				
Building Code	/ Test Criteria	Sds (g)	z / h	Ip	AFLX-H (g)	Arig-H (g)	AFLX-V (g)	ARIG-V (g)	
CBC 2010 / I	CC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-	
	LC-ES AC130	2.50	0	1.5	-	-	1.67	0.67	
	as full of contents of contents of the second se				l before and aft	er the ICC-ES	S AC156 test	. The unit	

UUT-2

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (5) 5/8" grade 8 bolts

Manufacturer	: Siemens Heal	series of the se			5723 ad Ka	UT-2 UT-2	G mbH G	ermany	
	X.ceed Gantry (<u>xxxva</u>		HATT	ate: May 202	1	cillially	
Model Numbe	• •	Con la				Number: 7		21-074-V1	
UUT Functior	: Continuous ro	otating x-ray	to ge	enerat	e diagno	ostic imaging	- -		
UUT Descript	ion: Gantry wit	h water coo	ling f	or the	SOMA	TOM X.Cee	d CT syster	n.	
UUT Modifica	tions: Modifica the stand	tions requir ard production			JUT to j	pass the seisr	nic test will	l be incorp	orated in
			UUT	PRO	PERTI	ES			
XX7 ' 1 / /11 \	Dir	nensions (in	ches))		N	atural Freq	uency (Hz)
Weight (lb)	Width	Depth		Hei	ght	FB	SS	5	V
4,748	99.8	37.7		78	.1	12.5	6.4	4	24.5
		SEISM	IIC T	TEST	PARA	METERS			
Building Code	e / Test Criteria	$S_{DS}(g)$	Z	/ h	Ip	A _{FLX-H} (g)	$A_{RIG-H}\left(g ight)$	A _{FLX-V} (g)	$A_{RIG-V}(g)$
CBC 2010 / I	CC ES AC156	2.00	1	.0	1.5	3.20	2.40	-	-
	CBC 2019 / ICC-ES AC156 2.50					-	-	1.67	0.67
	as full of contents d ural integrity during					l before and aft	er the ICC-ES	S AC156 test	. The unit



UUT-4

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (4) 5/8" grade 8 bolts.

0	C			C						
BY Main Math										
	: Siemens Heal	thcare GmbH		HATTHY !!	cation: IAI	1	ermany			
Component:		Contraction of the second seco			te: May 202					
Model Numbe		PAT		Report	Number: 7	TAB3-PB-2	21-074-V1			
	: Motorized par		BUILD	ING						
UUT Descript	ion: Patient tab				-					
		U	UT PRO	PERTI	ES					
Weight (lb)	Dir	nensions (incl	hes)		N	atural Freq	uency (Hz)			
with Patient	Width	Depth	Hei	ght	FB	SS	5	V		
1,343	27.6	97.6 - 179.5	24.0 -	40.7	11.6	14.	.9	> 33		
The patient table moves vertically and horizontally to accommodate different positions and procedures. The system was tested in the normal operating position, with the tabletop extended 39.4 inches, vertically extended 36.8 inches, and with a total simulated patient weight of 540lbs.										
		SEISMI	C TEST	PARAN	IETERS					
Building Code	e / Test Criteria	S _{DS} (g)	z / h	Ip	Aflx-H (g)	$A_{RIG-H}(g)$	AFLX-V (g)	Arig-v (g)		
CBC 2010 / I	CBC 2019 / ICC-ES AC156 2.00 1.0					2.40	-	-		
	CC-ES AC130	2.50	0	1.5	-	-	1.67	0.67		
	as full of contents d ural integrity during				before and aft	er the ICC-ES	S AC156 test.	The unit		