

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0421
OSHPD Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Siemens Healthcare GmbH Manufacturer's	
Technical Representative: Stephan Maurer	
Mailing Address: Siemensstr. 3, 91301 Forchheim, Germany	
Telephone: +49 (9191) 18-8835 Email: Stephan.sm.ma	urer@siemens-healthineers.com
Product Information	MD,
Product Name: CT Systems OSHPD	F
Product Type: NA OSP-0421	- Cal
Product Model Number: See Attachment 1, Table 1	
General Description: Multiple component system for the provision of Co	mputed Tomography medical diagnostic applications
Mounting Description: Rigid floor mounted and combined rigid floor/wall r	mounted
Tested Seismic Enhancements: None DATE: 07/12/2021	
C +	6/18
Applicant Information	2 V
Applicant Company Name: W.E. Gundy & Associates, Inc.	ODE
Contact Person: Travis Soppe	
Mailing Address: 1199 Shoreline Drive, Boise, ID 83702	
Telephone: (208) 342-5989 Email: tsoppe@wegai.	com
Title: President	

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSP-0421





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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):
FORCODECO
Testing Laboratory
Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Brady Richard
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: brady@etIdallas.com
DATE: 07/12/2021
CZ. Z
FRANCE CODE 200
BUILDING

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Seismic Parameters			
Design Basis of Equipment or Components	s (Fp/Wp) = See attachments		
SDS (Design spectral response accel	eration at short period, g) = 2.0		
ap (Amplification factor) =	See attachments		
Rp (Response modification factor) =	See attachments		
Ω_0 (System overstrength factor) =	See Attachment		
Ip (Importance factor) =	1.5		
z/h (Height ratio factor) =	1		
Natural frequencies (Hz) =	See attachments		
Overall dimensions and weight =	See attachments		
OSHPD Approval (For Office Use Only	() - Approval Expires on 12/31/202	57	
Date: <u>7/12/2021</u>	OSP-0421	m	
Name: Mohammad Aliaari	DV. Mohammad Aliaari	Title:	Senior Structural Engineer
Special Seismic Certification Valid Up to: S	DS(g) = 2.0	z/h=	1
Condition of Approval (if applicable):	DATE: 07/12/2021		
	TORNIA BUILDING CODE	6102	

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OSHPD

TABLE 1

SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



Manufacturer: Siemens Healthcare GmbH

System: SOMATOM Force CT

	Siemens	D	imensions (i	n)	Weight	Mounting		
System Component ¹⁾	Part Number	Width Depth Heigh		Height	(lb)	Mounting	UUT	
			Gantries					
SOMATOM Force	10742327	94.5	46.5	78.4	5880	floor	UUT-1	
		Pat	tient Table	S				
PHS-5	10742323	29.50F	100.5 - 179.5	24.3 - 41.7	1066	floor	UUT-2 ²	
MPT4	10742324	27.8	99.5 - 179.5	23.0 - 38.5	1388	floor	UUT-3 ²	
	E	Power Dis	stribution	Cabinet	6			
Power Distribution Cabinet	10757110	47.2	29.5	75.2	2027	floor/wall	UUT-4	
	<mark>o I</mark> ma	ge Contro	ol and Reco	onstructio	nO			
Image Control System	1086 <mark>4203</mark>	DA7.3E: 0	7/118/902	16.9	34	floor	UUT-5	
Image Reconstruction System	10742951	12.2	27.0	19.7	86	floor	UUT-6	

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 weight does not include simulated patient weights of 440lb.

SEISMIC CERTIFICATION LIMITS $S_{DS}(g)$ System Component Code z / h Ip a_P R_P Ω₀ $\mathbf{F}_{\mathbf{P}} / \mathbf{W}_{\mathbf{P}}$ CBC 2.0 Gantries 1.0 1.50 1.0 1.5 1.5 2.40 2019 CBC 2.0 Patient Tables 1.0 1.50 1.0 1.5 1.5 2.40 2019 **Power Distribution** CBC 2.0 1.0 1.50 2.5 6.0 2.0 1.50 Cabinet 2019 Image Control and CBC 2.0 1.0 2.5 1.50 1.0 2.0 1.44 Reconstruction 2019

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 5/8" grade 8 bolts



UNIT UNDER TEST (UUT) SUMMARY SHEET



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



UNIT UNDER TEST (UUT) SUMMARY SHEET



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



Manufacturer. Stemens fleatureate Offort	Test Location. Environmental Testing Labora
Component: MPT4 Patient Table	Test Date: November 2014
Model Number: 10742324	Report Number: SQ35-1423-01

UUT Function: Motorized patient table **CARTING**

UUT PROPERTIES

Weight (lb)		Dimensions (inches)	Natura	al Frequenc	y (Hz)	
with Patient*	Width	Depth	Height	FB	SS	V
1,828	27.8	99.5 - 179.5	23.0 - 38.5	2.7	3.3	7.7

*The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal vertical operating position, with the table top extended, and a total simulated patient weight of 440lbs.

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
Note: The unit was full of contents during testing and remained functional before and after the ICC ES AC156 test. The unit							

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

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted at top back side of unit with 4 - 5/16" bolts and rigid floor mounted with 2 - 1/2" grade 8 bolts. Wall mount brackets constructed of 4" long L4x2.5x0.25 angles that bolt thru the short leg to the UUT with a single 1/2" grade 8 bolt.



Manufacturer: Siemens Healthcare GmbH/ Test Location: Environmental Testing Laborate						aboratory		
Component: Power Distribution Unit				Test Date: November 2014				
Model Numbe	er: 10757110			Report Number: SQ35-1423-01				
UUT Function	n: Power distributi	on to CT sy	vstem					
UUT Descript	ion: Component o	f SOMATO	OM CT Sy	stems				
		τ	JUT PRO	PERTIE	S			
Waight (1h)		Dimensio	ns (inches)) Natural Frequency (Hz)				
Weight (lb)	Width	De	pth	H	eight	FB	SS	V
2,027	47.2	29	.5	7	75.2	13.2	12.7	>33
		SEISM	IC TEST	PARAM	ETERS			
Building Coc	le / 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 2019 /	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
	s full of contents duri	0 0			efore and after	r the ICC-ES	AC156 test.	The unit

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with two hand-tightened, 1" wide straps (200lb WLL), thru L2.5x2.5x1/4" x 2.5" brackets positioned on either side of the unit (spaced 12" apart). The four angle brackets are attached to the table with (1) 3/8" bolt at each bracket location.



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with two hand-tightened, 1" wide straps (200lb WLL), thru L2.5x2.5x1/4" x 2.5" brackets positioned on either side of the unit (spaced 12" apart). The four angle brackets are attached to the table with (1) 3/8" bolt at each bracket location.

ED FOR CODE COMP ED FOR CODE COMP OSE-0421 BY: Mohammad Alfaar Date: 07/12/2021								
	r: Siemens Healthc						l Testing La	boratory
	Image Reconstruct	ion System	(IRSmx4)					
Model Number			ABUIL		Number: S	-	-01	
	n: Computer for da	_			ction, and p	processing		
UUT Descript	tion: Component o	f SOMAT	OM CT Sys	stems				
		<u> </u>	JUT PRO	PERTIE	S			
Weight (lb)		Dimensio	ns (inches)			Natur	al Frequenc	y (Hz)
	Width		pth		eight	FB	SS	V
86	12.2	27	'.0	1	9.7	17.5	14.6	>33
		SEISM	IC TEST	PARAM	ETERS			
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	I _P	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2019 /	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54
	as full of contents durin ural integrity during an				fore and after	the ICC-ES	AC156 test. T	ĥe unit