

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

	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0820
HCAI Special Seismic Certification Preapproval (OSP)	
Type: X New Renewal	
Manufacturer Information	
Manufacturer: Siemens Healthcare GmbH	
Manufacturer's Technical Representative: Don Medlar	
Mailing Address: Siemensstr. 3, Forchheim, Fo 91301	
Telephone: (49919) 118-6521 Email: don.medlar@s	siemens-healthineers.com
Product Information	
Product Name: SOMATOM Pro.Pulse CT System	
Product Model Number(s): NA	E.
Product Category: CT Systems OSP-0820	i c
Product Sub-Category: NA	
General Description: Multiple component system for producing Component variety of medical diagnostic results.	uted Tomography (CT) medical images for a wide
Mounting Description: Base Mounted Rigid - DATE: 09/06/202	4
Tested Seismic Enhancements: None	
Applicant Information	
Applicant Company Name: WE Gundy & Associates, Inc	COV
Contact Person: Travis Soppe	
Mailing Address: PO Box 9121, Boise, ID 83707	
Telephone: (208) 342-5989 Email: tsoppe@wega	ai.com
Title: President	



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OSP-0820



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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: SUZHOU ELECTRICAL APPARATUS SCIENCE RESEARCH INSTITUTE CO., LTD. (EETI)
Contact Person: Tangfu Ji
Mailing Address: No. 5, Yuexi Qianzhu Road, Wuzhong District, Suzhou Jiangsu 215104
Telephone: (5126) 955-2195 Email: eeti-kz@eeti.cn
Company Name: IABG TEST LABORATORY
Contact Person: Steffen Roedling
Mailing Address: Einsteinstrasse 20, Ottobrunn Bavaria 85521
Telephone: (49896) 088-2052 Email: roedling@iabg.de
BUILDING



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Seismic Parameters

Design Basis of Equipment or Components	s (Fp/Wp) = See Attachments							
SDS (Design spectral response acceleration at short period, g) = $2.00 (z/h = 1.0)$ and $2.50 (z/h = 0.0)$								
ap (Amplification factor) =	ap (Amplification factor) = 1.0							
Rp (Response modification factor) =	Rp (Response modification factor) = See Attachments							
Ω_0 (System overstrength factor) =	2.0							
Ip (Importance factor) =	1.5							
z/h (Height ratio factor) =	z/h (Height ratio factor) = 1 and 0							
Natural frequencies (Hz) =	See Attachment							
Overall dimensions and weight =	See Attachment							
	NEDFORME							
HCAI Approval (For Office Use Only) -	Approval Expires on 09/06/2030							
Date: 9/6/2024	OSP-0820							
Name: Mohammad Karim	Title: Supervisor, Health Facilities							
Special Seismic Certification Valid Up to: Si	DS(g) = 2.0 $z/h = 1$							
Condition of Approval (if applicable):	DATE: 09/06/2024							
	OPNIA BUILDING CODE D							



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OSP-0820

SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM COMPONENTS



Manufacturer: Siemens Healthcare GmbH

System: SOMATOM Pro.Pulse CT System

	Siemens	Γ	Dimensions	(in)	Weight ²	Man-4-	111/23			
System Component	Part Number	Width	Width Depth H		(lb)	wounting	UUT			
Gantry										
SOMATOM Pro.Pulse	11594788	96.3	52.5	76.5	4960	floor	UUT _w -1			
SOMATOM Pro.Pulse	11594780	96.3	52.5	76.5	4960	floor	same ⁴			
SOMATOM Pro.Pulse Velo	11594798	96.3	0052.50	76.5	4960	floor	same ⁴			
Patient Tables										
Vario 2.D PHS	11061335	27.6	97.6-179.5	24.0-40.7	803 ²	floor	UUT _y -4			
Vario 2.D PHS	11061338	27.6	97.6-179.5	24.0-40.7	803 ²	floor	interpolated			
PHS-Vario 2	11061337	27.6	97.6-179.5	24.0-40.7	<mark>8</mark> 10 ²	floor	interpolated			
PHS-Vario 2	11061334 A	27.6	97.6-179.5	24.0-40.7	810 ²	floor	UUT _z -2			
	Image Rec	onstruc	ction and	UPS Syst	tems					
UPS Rack - IRSxp2e and UPS GXT-05	11501180//	15.4	32.7	22.5	149	floor	UUT _x -5			
 Notes: 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 do not include simulated patient weight used for test. See UUT summary sheets for simulated patient weights. ³ The units were tested at different times and the subscripts on the UUT's reference the following lab test reports: w - sa1019-29 / x - TA-B3-000477-V1 / y - TAB3-PB-21-074-V1 / z - TAB3-PB-18-035-V1 ⁴ The listed units are identical, the same as the tested units, and utilize different part numbers for marketing only. 										
SEISMIC CERTIFICATION LIMITS										
System Component	Code S _{DS} (g)	z / h	I _P	a _P	R _P	Ω ₀	$\mathbf{F}_{\mathbf{P}}$ / $\mathbf{W}_{\mathbf{P}}$			
Gantry	CBC 2.0	1.0	1.50	1.0	1.5	2.0	2.40			
	2022 2.5	0					1.13			

Patient Tables

IRS and UPS Systems

CBC

2022

CBC

2022

2.0

2.5

2.0

2.5

1.0

0

1.0

0

1.50

1.50

1.5

2.5

2.0

2.0

1.0

1.0

2.40

1.13

1.44

1.13

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (4) M14 grade 12.9 bolts

Wanufacturer: Signens Healthcare GmbH Test Location: EFTI Shanshai China												
Component:	SOMATOM Pr	o.Pulse Gantr	y		Test Da	ate: May 202	24					
Model Numbe	er: 11594788	, VIA	RI		Report	Number:	1019	-29				
UUT Function	: Continuous r	otating x-ray	to ge	enerate	e diagno	ostic imaging	5					
UUT Descript	ion: Gantry for	r the SOMAT	OM]	Pro.P	ulse CT	system.						
		τ	JUT	PRO	PERTI	ES						
Weight (lb)	Di	mensions (inches))		Natural Freq		quency (Hz)				
	Width	Depth		Heig	ght	FB		SS		V		
4,960	96.3	52.5		76	.5	11.0		28.0			> 33	
		SEISM	IC T	EST	PARA	METERS						
Building Code	/ Test Criteria	S _{DS} (g)	z /	′ h	Ip	A _{FLX-H} (g)	ARI	G-н (g)	A _{FLX-V}	(g)	$A_{RIG-V}(g)$	
CDC 2022 / 10		2.00	1.	.0	1.5	3.20	2	2.40	-		-	
CBC 2022 / ICC-ES AC156 2.50 0 1.5 - - 1.67 0							0.67					
Note: The unit w maintained struct	as full of contents of ural integrity during	during testing an ng and after the I	d rem	ained f S AC1	functiona 56 test.	l before and aft	ter the	e ICC-ES	S AC156	test.	The unit	

UUT_y-4

UNIT UNDER TEST (UUT) SUMMARY SHEET



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



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 Floor mounted with 4 - 5/8" grade 8 bolts.



UUT_x-5

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounting using Siemens provided seismic restraint kit SN:11500840. Seismic restraint kit includes three 1" wide hand tightened cam buckle straps (560lb WLL) looped thru angle brackets positioned on the long and short sides of the unit. The six angle brackets are attached to the table with individual 3/8" grade 5 bolts.



Manufacturer: Siemens Healthcare GmbH Test Location: IABG mbH, Germany											
Component: UPS Rack: IRSxp2e & UPS GXT-05 Test Date: March 2022											
Model Number: 11501180 Report Number: TA-B-000477-V1											
UUT Function: Combined Uninterruptable Power System and Image Reconstruction System											
UUT Descript	ion: Componen	t of the Pro.	Pulse CT s	ystem.							
	UUT PROPERTIES										
Dimensions (inches)					Natural Frequency (Hz)						
weight (1b)	Width	Depth	Hei	ght	FB	SS	5	V			
149.0	15.4	32.7	22	5	> 33	9.8		> 33			
	SEISMIC TEST PARAMETERS										
Building Code	e / Test Criteria	S _{DS} (g)	z / h	Ip	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	A _{FLX-V} (g) $A_{RIG-V}(g)$			
		2.00	1.0	1.5	3.20	2.40	-	-			
	CC-ES ACI30	2.50	0	1.5	-	-	1.67	0.67			
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 maintained structural integrity during and after the ICC-ES AC156 test.