

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE USE ONLY				
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP – 0474 – 10				
OSHPD Special Seismic Certification Preapproval (OSP)					
Type: 🛛 New 🗌 Renewal					
Manufacturer Information					
Manufacturer: Siemens Healthcare GmbH, Diagnostic Imaging, Com	puted Tomography				
Manufacturer's Technical Representative: Ottmar Förstel					
Mailing Address: Siemensstr. 1, 91301 Forchheim, Germany					
Telephone: +49 9191 - 18 8761 Email: ottmar	.foerstel@siemens.com				
Product Information					
Product Name: SOMATOM Drive CT System					
Product Type: Computed Tomography (CT) medical imaging system	1				
Product Model Number: See Attachment					
(List all unique product identification numbers and/or part numbers) General Description: Multiple component system for producing Con	nuted Tomography (CT) medical images for a			
wide variety of medical diagnostic results					
Mounting Description: See attachment.					
Applicant Information					
Applicant Company Name: W.E. Gundy & Associates, Inc.					
Contact Person: Travis Soppe, SE					
Mailing Address: 250 Bobwhite Ct, Suite 100, Boise, ID 83706					
Telephone: (208) 342-5898 Ext. 115 Email: tsoppe	@wegai.com				
I hereby agree to reimburse the Office of Statewide Health l accordance with the California Administrative Code, 2016.	Planning and Develo	pment review fees in			
Signature of Applicant:	Date	: 08-10-2016			
Title: Vice President Company Name: W.E. C	Gundy & Associates, Inc.				
	, hum.	OSHPD			
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY		05110			
OSH-FD-759 (REV 12/16/15)		Page 1 of 3			



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)								
Company Name: W.E. Gundy & Associates, Inc.								
Name: Travis Soppe, SE California License Number: S6115								
Mailing Address: 205 Bobwhite Ct, Suite 100, Boise, ID 83706								
Telephone: (208) 342-5898 Ext. 115 Email: tsoppe@wegai.com								
Supports and Attachments Preapproval								
Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)								
Supports and attachments are not preapproved								
Certification Method								
 Testing in accordance with: ICC-ES AC156 Other (Please Specify):								
Testing Laboratory								
Company Name: IABG mbH								
Contact Name: Dr. Steffen Roedling								
Mailing Address: _ Einsteinstrasse 20, Ottobrunn, Germany D-85521								

Telephone: __+49 (0) 89 / 6088-2052 Email: __roedling@iabg.de

"Access to Safe, Quality Healthcare	Environments that	t Meet California's	Diverse and	Dynamic Needs"
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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Design in accordance with ASCE 7-10 Chapter 13: 🛛 Yes 🗌 No
Design Basis of Equipment or Components (F _p /W _p) = See attachment
S_{DS} (Design spectral response acceleration at short period, g) = 2.0 for $z/h = 1.0$ and 2.5 for $z/h = 0$
a _p (In-structure equipment or component amplification factor) = See attachment
R _p (Equipment or component response modification factor) = <u>See attachment</u>
Ω_0 (System overstrength factor) = <u>Multiple</u> , See attachment
I_p (Importance factor) = 1.5
z/h (Height factor ratio) = 1.0 at S _{DS} = 2.0g and 0 at S _{DS} = 2.5g
Equipment or Component Natural Frequencies (Hz) = <u>See attachment</u>
Overall dimensions and weight (or range thereof) = See attachment
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: 🗌 Yes 🛛 No
Design Basis of Equipment or Components (V/W) =
S _{DS} (Design spectral response acceleration at short period, g) =
S _{D1} (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
Ω_0 (System overstrength factor) =
C _d (Deflection amplification factor) =
$I_{\rm P}$ (Importance factor) = 1.5
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: \Box Yes \boxtimes No
List of Attachments Supporting Special Seismic Certification
Test Report(s) Drawings Calculations Manufacturer's Catalog
Other(s) (Please Specify): Certified System Matrix, UUT Summary Sheets, Subcomponent Certification Letter
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022
Signature: Date: Date: Date: Date: Date: Date: Date: Date:
Print Name: M. R. Karim Title: SHFR
Special Seismic Certification Valid Up to : S _{DS} (g) = See Above z/h = See Above
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY DSH-FD-759 (REV 12/16/15) Page 3 of 3 Page 3 of 3

SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



Manufacturer: Siemens Healthcare GmbH

System: Somatom Drive CT System

System Component	Siemens	Dime	ensions (in)	Weight	Mounting	UUT	
System Component	Part Number	Width	Width Length H		(lb)	Mounting	001	
SOMATOM Gantry	10430610	94.5	48.0	78.4	5672	floor	UUT-1	
PHS-4n Patient Table ³	11268204	100.8-179.5	29.3	18.9-36.2	1038 ²	floor	UUT-2	
MPT-2n Patient Table ³	11268202	96.3-175.0	29.5	21.6-36.2	1175 ²	floor	UUT-3	
PDC-A	10662877	35.4	27.2	76.8	1162	floor/wall	UUT-4	
PDC-B	10662878	35.4	27.2	76.8	814	floor/wall	UUT-5	
Image Control System	11062028	7.3	18.9	16.9	25	floor	$UUT-1B^4$	
Image Recon. System	10890636	26.2	10.0	20.1	61	floor	$UUT-3B^4$	

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

²⁾ Patient table weight does not include 308lb simulated patient weight included during seismic test.

³⁾ Condition of Approval: Patient table may only be used for maximum patient weight of 385lbs, not for bariatric use. ⁴⁾ B designation on UUT's indicates that the tests were performed seperately from the first series of testing and some of the UUT numbers were the same for different tested components.

SEISMIC CERTIFICATION LIMITS									
System Component	Code	$S_{DS}\left(g ight)$	z / h	I _P	a _P	R _P	Ω ₀	$\mathbf{F}_{\mathbf{P}}$ / $\mathbf{W}_{\mathbf{P}}$	
SOMATOM Gantry		2.0	1.0	1.50	1.0	1.5	1.5	2.40	
SOMATOM Gallery		2.5	0	1.50				1.13	
PHS-4n Patient Table		2.0	1.0	1.50	1.0	1.5	1.5	2.40	
1113-4111 attent 1 abe		2.5	0	1.50				1.13	
MPT-2n Patient Table	16 10	2.0	1.0	1.50	1.0	1.5	1.5	2.40	
WIF I-211 Patient Table		2.5	0					1.13	
Power Distribution	C 201 CE7-1	2.0	1.0	1.50	2.5	6.0	2.0	1.50	
Cabinet (PDC-A)	CBC ASCF	2.5	0	1.50				1.13	
Power Distribution	CB AS	2.0	1.0	1.50	2.5	6.0	2.0	1.50	
Cabinet (PDC-B)		2.5	0	1.50				1.13	
Image Control System		2.0	1.0	1.50	1.0	2.5	2.0	1.44	
		2.5	0					1.13	
Image Recon. System		2.0	1.0	1.50	1.0	2.5	2.0	1.44	
		2.5	0					1.13	

UUT	-1	UNIT UNDER TEST (UUT) SUMMARY SHEET							GAI SSOCIATES, INC. QUARE ENGINEERING
Mounting De	tails: Rigi	d floor r	nounted wi	th 4 - M16	bolts				
Manufacture									
Component:			•			umber: 10			
UUT Functio			-		-		n data acqu	isition	
UUT Descrip	tion: Com	ponent o	of SOMAT	OM Drive	CT Syste	m			
Test Location	i: IABG m	ıbH, Gei	rmany			Test Date:	: May 2016	5	
			I	UUT PROI	PERTIE	S			
			Dimensio	ensions (inches)			Natur	al Fequency	v (Hz)
Weight (lb)	Wid	th		pth	Height		FB	SS	V
5,672 94.5"			48		78.4"		11.5	23.7	>33
			SEISM	IC TEST	PARAM	ETERS			
Building Co	de / Test C	riteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H} (g)	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
0			2.00	1.0	1.5	3.20	2.40		
CBC 2016 /	ICC-ES A	C156	2.50	0.0	1.5			1.67	0.67
Note: The unit w						fore and after	the ICC-ES	AC156 test. T	he unit
maintained struct	tural integrity	y during a	nd after the I	CC-ES AC15	6 Test.				

UUT-2

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounted with 4 - M10 bolts



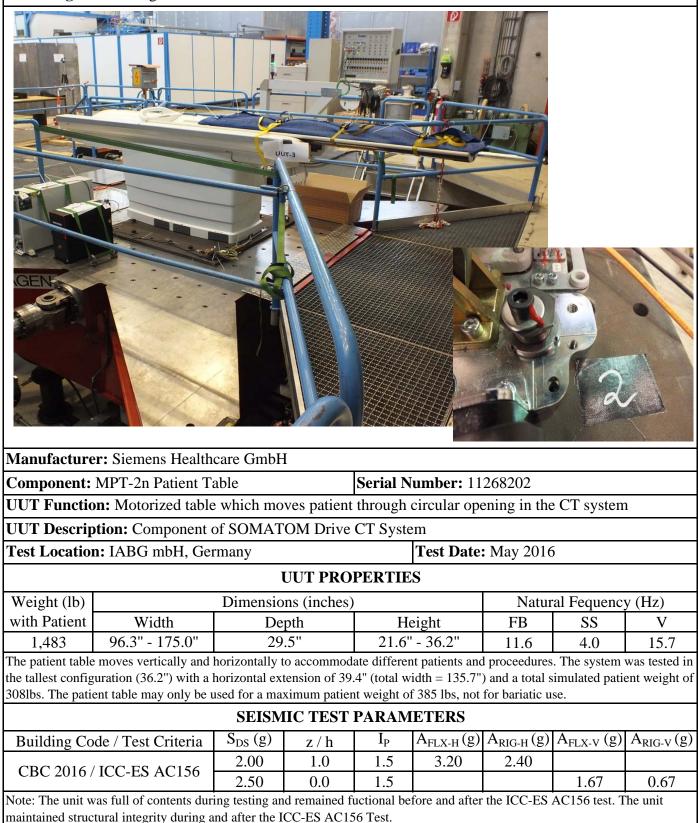
maintained structural integrity during and after the ICC-ES AC156 Test.

UUT-3

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounted with 4 - M10 bolts



UUT-4

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor/Wall mount with 4 - M10 bolts to floor and 2 - M8 bolts to wall fixture



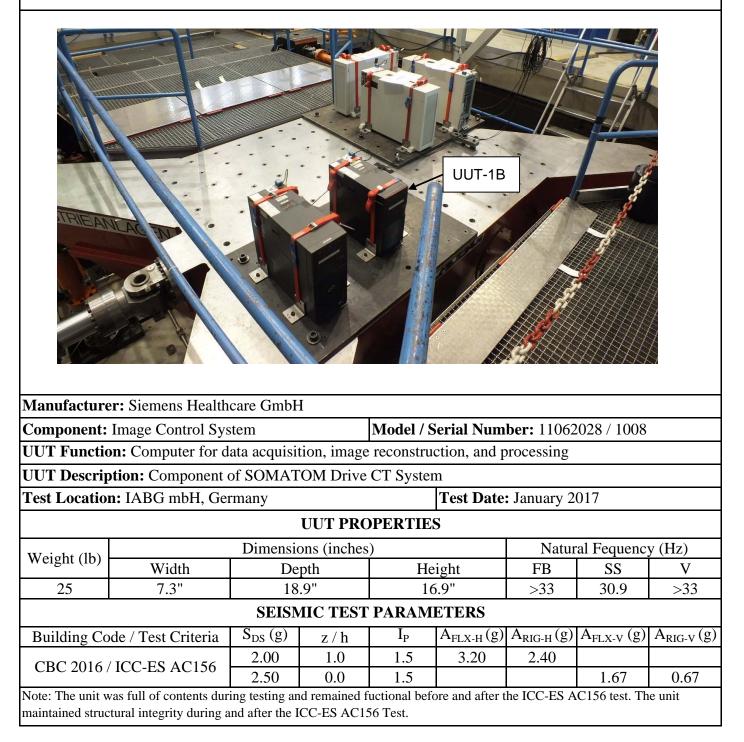
UNIT UNDER TEST (UUT) UUT-5 FGA **SUMMARY SHEET** Mounting Details: Rigid Floor/Wall mount with 4 - M10 bolts to floor and 2 - M8 bolts to wall fixture Manufacturer: Siemens Healthcare GmbH Serial Number: 10662878 **Component:** Power Distribution Cabinet (PDC-B) **UUT Function:** Power distribution to CT system UUT Description: Component of SOMATOM Drive CT System Test Location: IABG mbH, Germany Test Date: May 2016 **UUT PROPERTIES** Natural Fequency (Hz) **Dimensions** (inches) Weight (lb) Width FB SS V Depth Height 35.4" 27.2" 76.8" 814 NA NA NA SEISMIC TEST PARAMETERS Building Code / Test Criteria $S_{DS}(g)$ Ip $A_{FLX-H}(g) | A_{RIG-H}(g) | A_{FLX-V}(g) |$ $A_{RIG-V}(g)$ z / h 2.00 1.0 1.5 3.20 2.40 CBC 2016 / ICC-ES AC156 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-1B

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounting using Siemens provided seismic restraint kit. Siesmic restraint kit includes two 1" wide hand tightened cam buckle straps (560lb 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.



UUT-3B

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid Floor mounting using Siemens provided seismic restraint kit. Siesmic restraint kit includes two 1" wide hand tightened cam buckle straps (560lb 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.

