APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0679

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Siemens Healthcare GmbH, Diagnostic Imaging, Computed Tomography

Manufacturer's Technical Representative: Don Medlar

Mailing Address: Siemensstr. 1, Forchheim, Germany 91301

Telephone: (49919) 118-6521 Email: don.medlar@siemens-healthineers.com

Product Information

Product Name: Somatom CT Systems

Product Model Number(s): Somatom CT Systems

Product Category: CT Systems

Product Sub-Category: NA

General Description: Multiple component systems for producing Computed Tomography (CT) medical images for a wide variety of medical diagnostic results.

Mounting Description: Several - See Certified Product Tables -

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: WE Gundy & Associates, Inc

Contact Person: Travis Soppe

Mailing Address: PO Box 9121, Boise, ID 83707

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

Title: President

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 ☒ ICC-ES AC156 ☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3

☐ Other (Please Specify):

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657 Email: jeremy@etldallas.com

Company Name: IABG TEST LABORATORY

Contact Person: Steffen Roedling

Mailing Address: Einsteinstrasse 20, Ottobrunn Bavaria 85521

Telephone: (49896) 088-2052 Email: roedling@iabg.de

Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = See Attachment

S_{DS} (Design spectral response acceleration at short period, g) = 2.0

a_p (Amplification factor) = See Attachment

R_p (Response modification factor) = See Attachment

Ω_0 (System overstrength factor) = See Attachment

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 06/16/2031

Date: 6/16/2025

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: S_{DS} (g) = 2.0 z/h = 1

Condition of Approval (if applicable):

TABLE 1	SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Manufacturer: Siemens Healthcare GmbH

System: SOMATOM CT Systems

System Component[1]	Siemens Part Number[3]	Dimensions (in)			Weight (lb)	Mounting	UUT[2]
		Width	Depth	Height			
Gantries							
Confidence	10590100	93.7	36.8	78.0	4523	floor	UUT_w-1
Definition AS	8098027	92.9	36.7	78.0	4554	floor	UUT_y-2
Definition AS Open	8098027	92.9	36.7	78.0	4554	floor	UUT_y-3
Edge Plus	10267000	93.7	36.8	78.0	4607	floor	UUT_z-1
Definition Edge	10590000	93.7	36.8	78.0	4851	floor	interpolated
Definition Flash	10430603	91.1	47.4	78.0	5614	floor	UUT_y-1
Drive	10431700	94.5	48.0	78.4	5672	floor	UUT_v-1
Force	10742326	94.5	46.5	78.3	5900	floor	UUT_z-2
Power Distribution Cabinets (PDC)							
PDC-A	10662877	35.4	27.2	76.8	1162	floor / wall	UUT_v-4
PDC-B	10662878	35.4	27.2	76.8	814	floor / wall	UUT_v-5
PDC	10757110	47.2	29.5	75.2	2027	floor / wall	UUT_u-4

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] The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:
t - TAF4-PB-16-226-V1 / u - SQ35-1423-01 / v - TAF4-PB-16-226-V1 / w - TAF4-PB-16-370-V1
x - TAF4-PB-17-033-V1 / y - TAF4-PB-16-310-V2 / z - TAF4-PB-18-059-V2

[3] The two identification numbers listed for a single gantry are both used within the Siemens system to identify the same gantry that was tested. The Definition AS and Definition AS Open are the same gantry with minor differences in the cover bore diameter, software, license key, and tub collimator. Both are identifed by Siemens using the same primary model number and the diffences are defined within the options of that main model number.

TABLE 1	SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Manufacturer: Siemens Healthcare GmbH

System: SOMATOM CT Systems

System Component[1]	Siemens Part Number[3]	Dimensions (in)			Weight (lb)	Mounting	UUT[2]
		Width	Depth	Height			
Image Reconstruction Systems (IRS)							
IRSxp2a	11652201	7.0	21.7	17.1	44	floor	UUT_t-6
IRSmx6b	11652205	9.8	21.0	18.5	47	floor	interpolated
IRSmx6e	11652206	9.8	21.0	18.5	48	floor	interpolated
IRSmx6a	11652204	9.8	21.0	18.5	49	floor	interpolated
IRSmx5a	10590110	8.3	17.7	26.8	53	floor	UUT_z-5
IRSmx5b	10590111	8.3	17.7	26.8	62	floor	UUT_z-6
IRSmx5c	10590112	8.3	17.7	26.8	60	floor	interpolated
IRSmx5d	10590113	8.3	17.7	26.8	60	floor	interpolated
IRSmx5e	10590114	8.3	17.7	26.8	60	floor	interpolated
IRSmx4a	10742951	12.2	27.0	19.7	86	floor	UUT_u-6
IRSmx4b	10890634	30.3	10.1	20.0	58	floor	UUT_x-4
IRSmx4c	10890635	30.3	10.1	20.0	53	floor	UUT_x-5
IRSmx4d	10890636	26.2	10.0	20.1	61	floor	UUT_x-3
Image Control System (ICS)							
PS22 PC Tower	11513979	6.7	14.0	15.2	15	floor	extrapolated
ICS14E Tower	11513972	7.1	14.8	12.0	22	floor	extrapolated
ICS Tower 13E	11062028	7.3	18.9	16.9	25	floor	UUT_x-1
ICS Tower 12E	10864203	9.8	24.4	19.7	34	floor	UUT_x-2

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] The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:
t - TAF4-PB-16-226-V1 / u - SQ35-1423-01 / v - TAF4-PB-16-226-V1 / w - TAF4-PB-16-370-V1
x - TAF4-PB-17-033-V1 / y - TAF4-PB-16-310-V2 / z - TAF4-PB-18-059-V2

TABLE 1	SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Manufacturer: Siemens Healthcare GmbH

System: SOMATOM CT Systems

System Component[1]	Siemens Part Number[3]	Dimensions (in)			Weight (lb)	Mounting	UUT[2]
		Width	Depth	Height			
Patient Tables[3]							
PHS-1b	10643655	29.5	96.3-159.3	19.7-36.2	846	floor	UUT_w-2
PHS-4	8097144	29.5	95.7-158.7	18.9-36.2	933	floor	UUT_y-4
PHS-4n	11268204	29.3	100.5-179.5	24.3-41.7	1060	floor	UUT_z-3
PHS-5	10742323	29.5	100.5-179.5	24.3-41.7	1066	floor	UUT_u-2
MPT-2	8097102	29.5	95.7-174.4	21.6-36.2	1311	floor	UUT_y-5
MPT-2n	11268202	29.5	96.3-175.0	21.6-36.2	1175	floor	UUT_v-3
MPT-4	10742324	27.8	99.6-179.5	23.0-38.6	1258	floor	UUT_z-4

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] The units were tested at different times and the subscripts on the UUT's reference the following lab test reports:
t - TAF4-PB-16-226-V1 / u - SQ35-1423-01 / v - TAF4-PB-16-226-V1 / w - TAF4-PB-16-370-V1
x - TAF4-PB-17-033-V1 / y - TAF4-PB-16-310-V2 / z - TAF4-PB-18-059-V2

[3] Patient table weights listed do not include simulated patient weight used for test. See UUT summary sheets for simulated patient weights.

SEISMIC CERTIFICATION LIMITS

System Component	Code	S_{DS} (g)	z / h	I_P	a_P	R_P	Ω_0	F_P / W_P
Gantries	CBC 2022	2.0	1.0	1.50	1.0	1.5	2.0	2.40
Power Distribution Cabinets (PDC)	CBC 2022	2.0	1.0	1.50	2.5	6.0	2.0	1.50
Patient Tables	CBC 2022	2.0	1.0	1.50	1.0	1.5	2.0	2.40
Image Reconstruction Systems (IRS)	CBC 2022	2.0	1.0	1.50	1.0	2.5	2.0	1.44
Image Control System (ICS)	CBC 2022	2.0	1.0	1.50	1.0	2.5	2.0	1.44

TABLE 2	SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION UNIT UNDER TEST INDEX				
UUT	System Component	Lab	Report #	Test Date	Tested S_{DS} z / h = 1.0
UUT_z-1	Edge Plus Gantry	IABG, Munich	TAF4-PB-18-059-V2	Dec. 2017	2.00
UUT_z-2	Force Gantry	IABG, Munich	TAF4-PB-18-059-V2	Dec. 2017	2.00
UUT_z-3	PHS-4n Patient Table	IABG, Munich	TAF4-PB-18-059-V2	Dec. 2017	2.00
UUT_z-4	MPT-4 Patient Table	IABG, Munich	TAF4-PB-18-059-V2	Dec. 2017	2.00
UUT_z-5	IRSmx5a Image Reconstruction PC	IABG, Munich	TAF4-PB-18-059-V2	Dec. 2017	2.00
UUT_z-6	IRSmx5b Image Reconstruction PC	IABG, Munich	TAF4-PB-18-059-V2	Dec. 2017	2.00
UUT_y-1	Definition Flash Gantry	IABG, Munich	TAF4-PB-16-310-V2	Aug. 2016	2.00
UUT_y-2	Definition AS Gantry	IABG, Munich	TAF4-PB-16-310-V2	Aug. 2016	2.00
UUT_y-3	Definition AS Open Gantry	IABG, Munich	TAF4-PB-16-310-V2	Aug. 2016	2.00
UUT_y-4	PHS-4 Patient Table	IABG, Munich	TAF4-PB-16-310-V2	Aug. 2016	2.00
UUT_y-5	MPT-2 Patient Table	IABG, Munich	TAF4-PB-16-310-V2	Aug. 2016	2.00
UUT_x-1	ICS Tower 13E Image Control PC	IABG, Munich	TAF4-PB-17-033-V1	Jan. 2017	2.00
UUT_x-2	ICS Tower 12E Image Control PC	IABG, Munich	TAF4-PB-17-033-V1	Jan. 2017	2.00
UUT_x-3	IRSmx4d Image Reconstruction PC	IABG, Munich	TAF4-PB-17-033-V1	Jan. 2017	2.00
UUT_x-4	IRSmx4b Image Reconstruction PC	IABG, Munich	TAF4-PB-17-033-V1	Jan. 2017	2.00
UUT_x-5	IRSmx4c Image Reconstruction PC	IABG, Munich	TAF4-PB-17-033-V1	Jan. 2017	2.00
UUT_w-1	Confidence Gantry	IABG, Munich	TAF4-PB-16-370-V1	Oct. 2016	2.00
UUT_w-2	PHS-1b Patient Table	IABG, Munich	TAF4-PB-16-370-V1	Oct. 2016	2.00
UUT_v-1	Drive Gantry	IABG, Munich	TAF4-PB-16-226-V1	May 2016	2.00
UUT_v-3	MPT-2n Patient Table	IABG, Munich	TAF4-PB-16-226-V1	May 2016	2.00
UUT_v-4	Power Distribution Cabinet - PDC-A	IABG, Munich	TAF4-PB-16-226-V1	May 2016	2.00
UUT_v-5	Power Distribution Cabinet - PDC-B	IABG, Munich	TAF4-PB-16-226-V1	May 2016	2.00
UUT_u-2	PHS-5 Patient Table	ETL, TX	SQ35-1423-01	Nov. 2014	2.00
UUT_u-4	Power Distribution Cabinet - PDC	ETL, TX	SQ35-1423-01	Nov. 2014	2.00
UUT_u-6	IRSmx4a Image Reconstruction PC	ETL, TX	SQ35-1423-01	Nov. 2014	2.00
UUT_t-6	IRSxp2a Image Reconstruction PC	IABG, Munich	TA-B-000477-V1	March 2022	2.00

UUT_z-1	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details:	Rigid floor mounted with (4) M16 grade 12.9 bolts

Manufacturer:	Siemens Healthcare GmbH	**Test Location:**	IABG mbH, Germany
Component:	SOMATOM Edge Plus Gantry	**Test Date:**	December 2017
Model Number:	10267000	**Report Number:**	TAF4-PB-18-059-V2
UUT Function:	Continuous rotating x-ray to generate diagnostic imaging		
UUT Description:	Component of SOMATOM CT systems		

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,607	93.7	36.8	78.0	13.1	15.3	> 33.0

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} (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

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.

UUT_z-2	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted with (4) M16 grade 12.9 bolts

Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: SOMATOM Force Gantry	**Test Date:** December 2017
Model Number: 10742326	**Report Number:** TAF4-PB-18-059-V2
UUT Function: Continuous rotating x-ray to generate diagnostic imaging	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
5,900	94.5	46.5	78.3	11.0	23.0	> 33.0

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} (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

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.

UUT_z-3	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted with (4) M10 grade 12.9 bolts

Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: PHS-4n Patient Table	**Test Date:** December 2017
Model Number: 11268204	**Report Number:** TAF4-PB-18-059-V2
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,475	29.5	100.5 – 179.5	24.3 – 41.7	3.4	2.6	9.7

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4″ (139.8″ length), vertical height of 36.2″, and a total simulated patient weight of 415lbs.

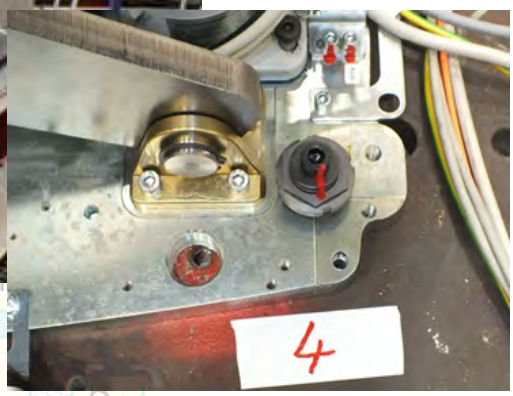
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (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

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.

UUT_z-4	**UNIT UNDER TEST (UUT) SUMMARY SHEET**	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted with (4) M10 grade 12.9 bolts



Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: MPT-4 Patient Table	**Test Date:** December 2017
Model Number: 10742324	**Report Number:** TAF4-PB-18-059-V2
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,818	27.8	99.6 – 179.5	23.0 – 38.6	3.0	> 33.0	14.0

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4″ (139.0″ length), vertical height of 36.2″, and a total simulated patient weight of 560lbs.

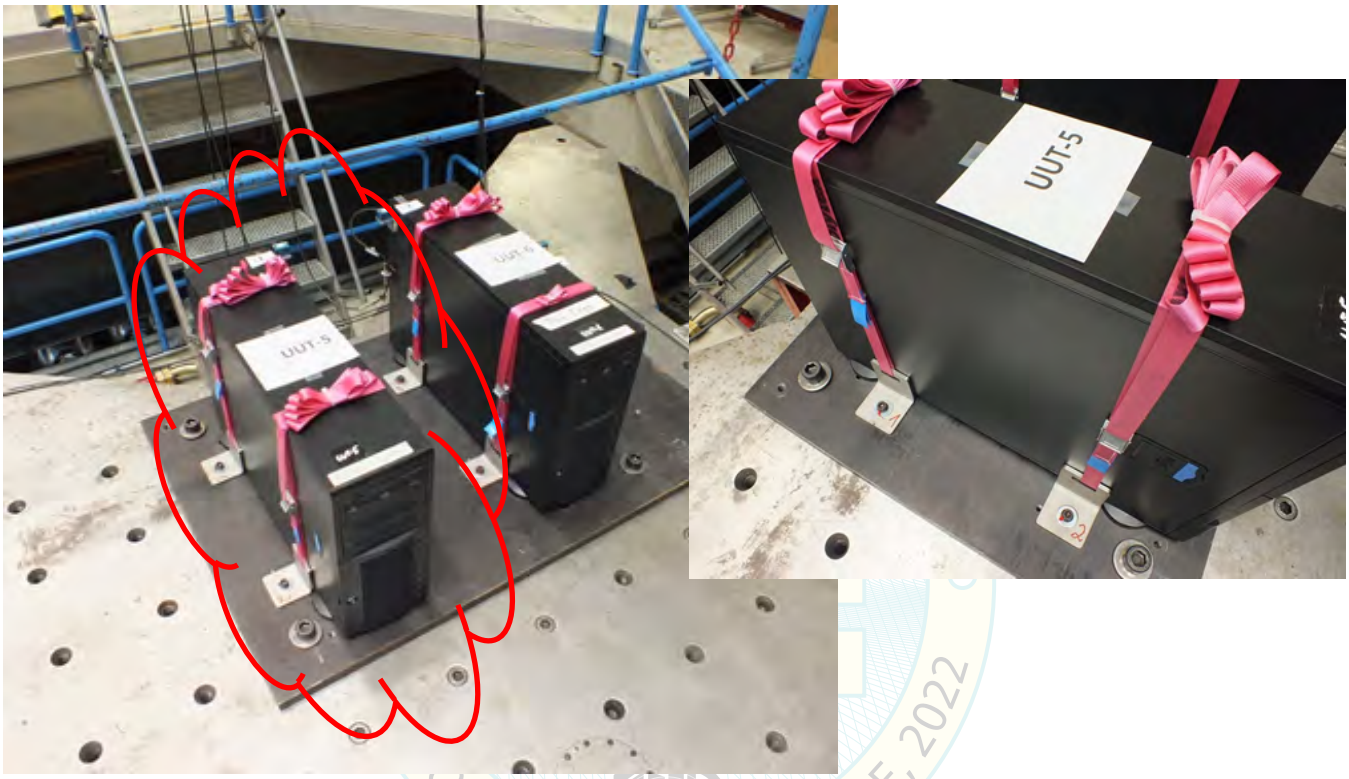
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (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

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.

UUT_z-5	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1" wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: PC IRSmx5a Imaging System	**Test Date:** December 2017
Model Number: 10590110	**Report Number:** TAF4-PB-18-059-V2
UUT Function: Imaging system PC	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
53	8.3	17.7	26.8	> 33.0	27.4	> 33.0

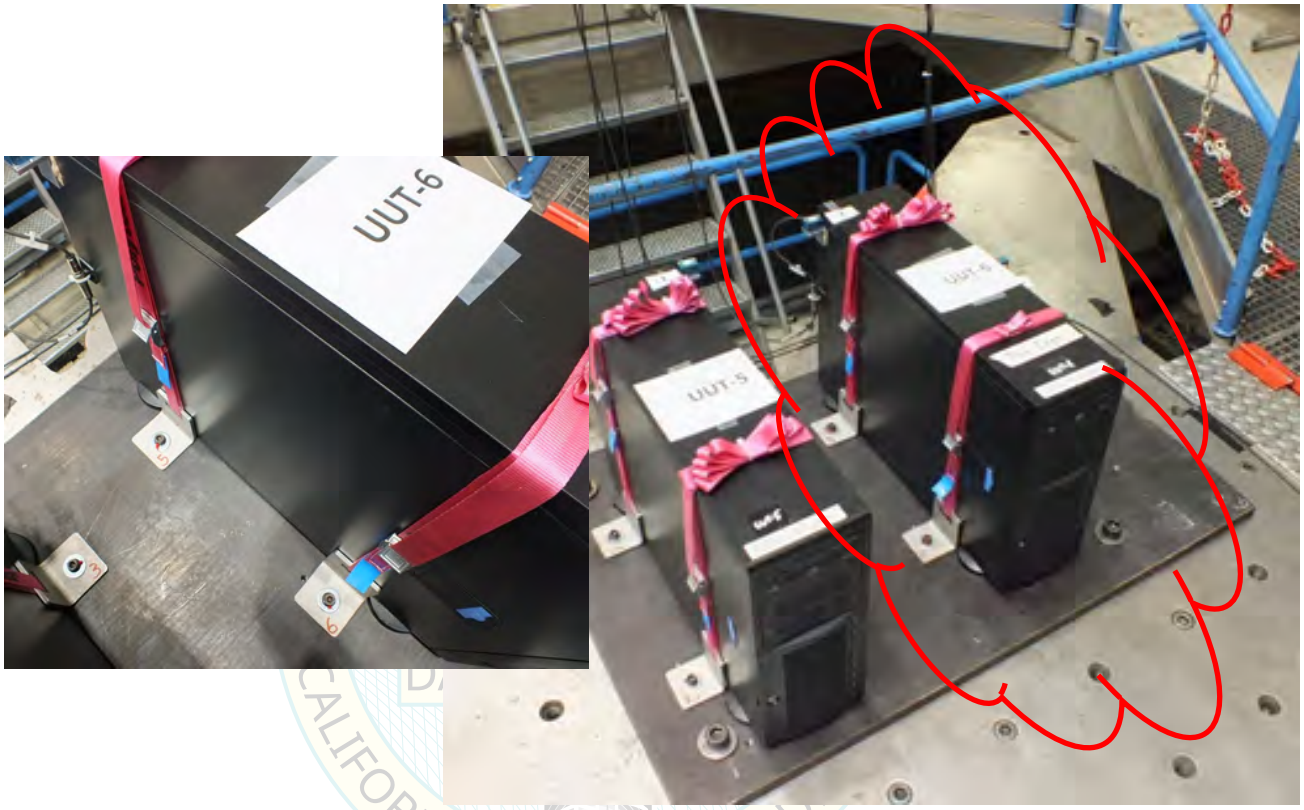
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (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

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.

UUT_z-6	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1" wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: PC IRSmx5b Imaging System	**Test Date:** December 2017
Model Number: 10590111	**Report Number:** TAF4-PB-18-059-V2
UUT Function: Imaging system PC	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	Width	Depth
62	8.3	17.7	26.8	> 33.0	30.3	> 33.0

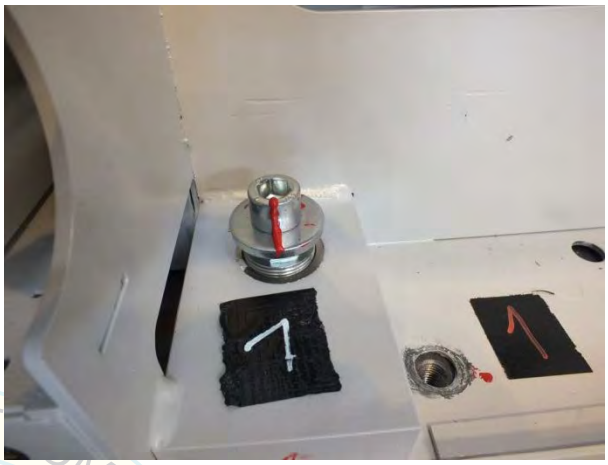
SEISMIC TEST PARAMETERS

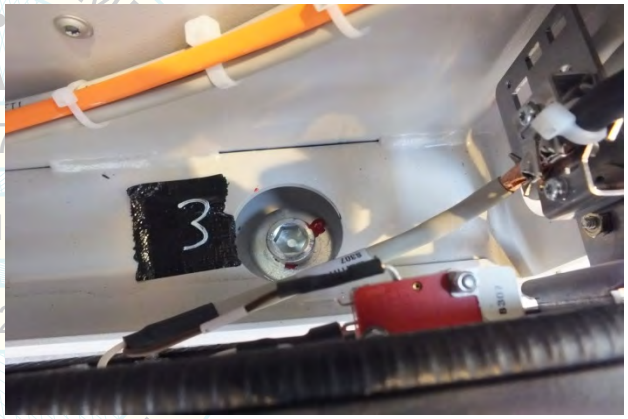
Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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.

UUT_y-1	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted with (4) M16 grade 12.9 bolts





Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: SOMATOM Definition Flash Gantry	**Test Date:** August 2016
Primary Model Number: 10430610 **Secondary Model Number:** 10430603	**Report Number:** TAF4-PB-16-310-V2
UUT Function: Continuous rotating x-ray to generate diagnostic imaging	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
5,614	91.1	47.4	78.0	13.1	24.2	> 33.0

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} (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

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.

UUT_y-2	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted with (4) M16 grade 12.9 bolts

Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: SOMATOM Definition AS Gantry	**Test Date:** August 2016
Primary Model Number: 8098555 **Secondary Model Number:** 8098027	**Report Number:** TAF4-PB-16-310-V2
UUT Function: Continuous rotating x-ray to generate diagnostic imaging	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,554	92.9	36.7	78.0	12.3	15.6	> 33.0

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} (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

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.

UUT_y-3	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Rigid floor mounted with (4) M16 grade 12.9 bolts

Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: SOMATOM Definition AS Open	**Test Date:** August 2016
Primary Model Number: 8098555 **Secondary Model Number:** 8098027	**Report Number:** TAF4-PB-16-310-V2
UUT Function: Continuous rotating x-ray to generate diagnostic imaging	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,554	92.9	36.7	78.0	12.0	15.1	> 33.0

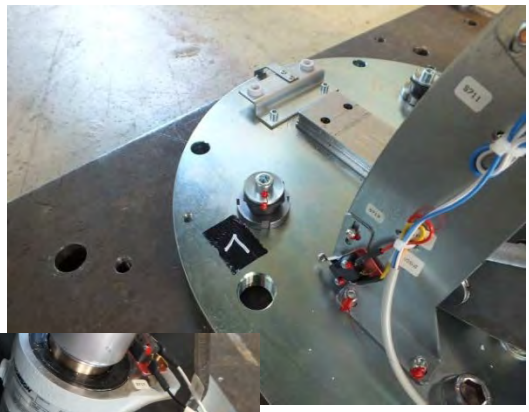
SEISMIC TEST PARAMETERS

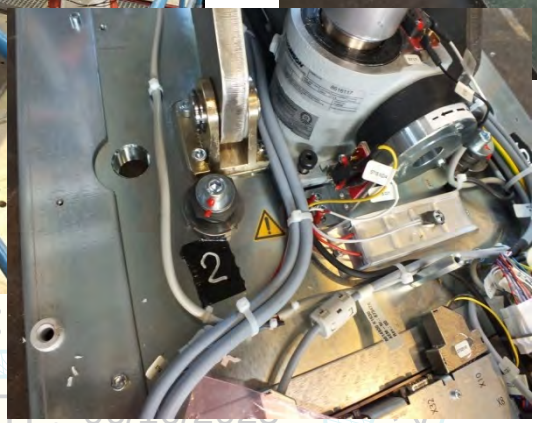
Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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.

UUT_y-4	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted with (4) M10 bolts





Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: PHS-4 Patient Table	**Test Date:** August 2016
Model Number: 8097144	**Report Number:** TAF4-PB-16-310-V2
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,241	29.5	95.7 – 158.7	18.9 – 36.2	3.3	13.2	12.2

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4″ (135.1″ length), vertical height of 36.2″, and a total simulated patient weight of 308lbs.

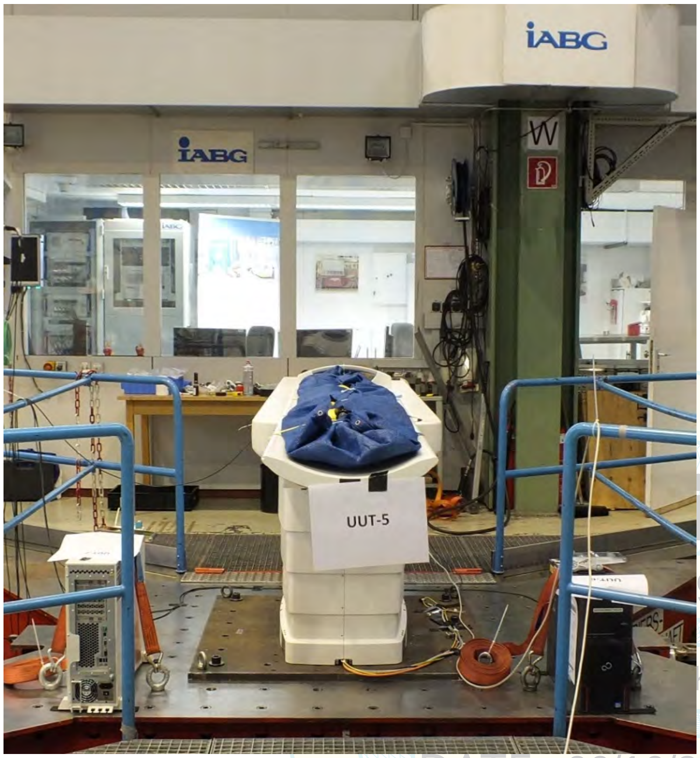
SEISMIC TEST PARAMETERS

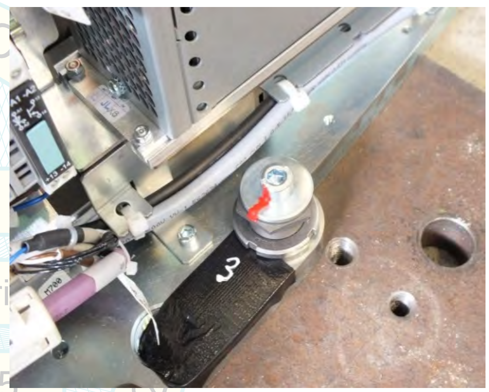
Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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.

UUT_Y-5	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Rigid floor mounted with (4) M10 bolts





Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: MPT-2 Patient Table	**Test Date:** August 2016
Model Number: 8097102	**Report Number:** TAF4-PB-16-310-V2

UUT Function: Motorized patient table for moving patient through CT system

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,619	29.5	95.7 – 174.4	21.6 – 36.2	4.7	22.6	14.6

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4″ (135.1″ length), vertical height of 36.2″, and a total simulated patient weight of 308lbs.

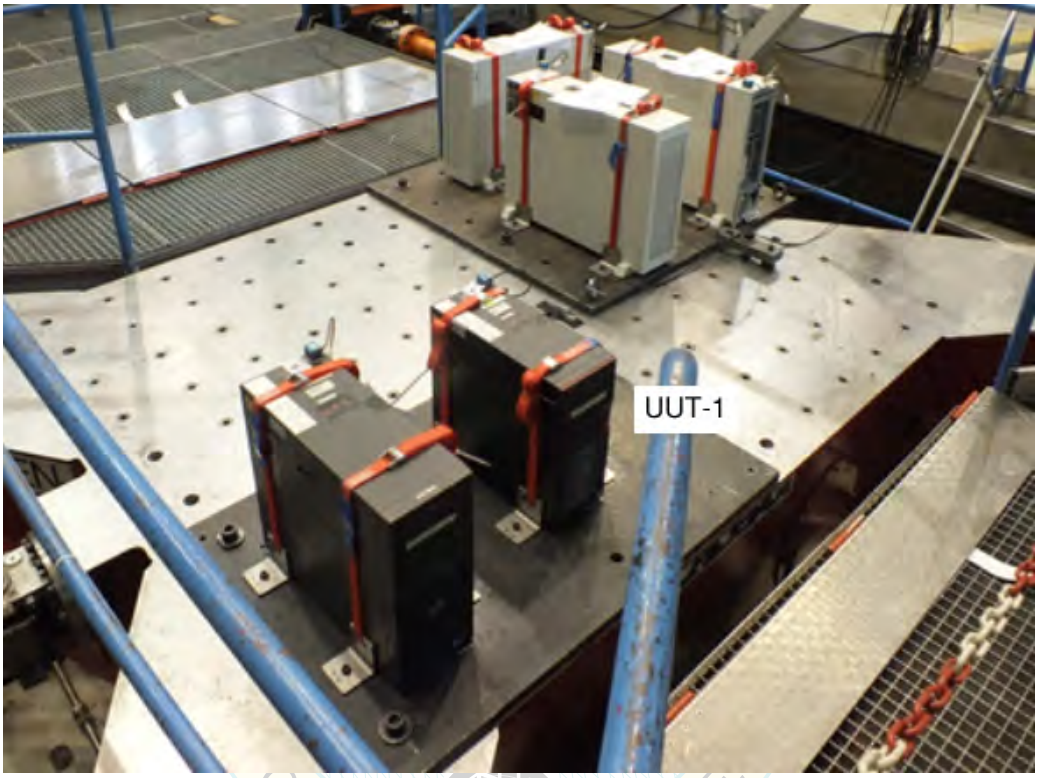
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (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

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.

UUT_x-1	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1" wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: ICS Tower 13E	**Test Date:** January 2017
Model Number: 11062028	**Report Number:** TAF4-PB-17-033-V1
UUT Function: Imaging control system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
25	7.3	18.9	16.9	> 33.0	30.9	> 33.0

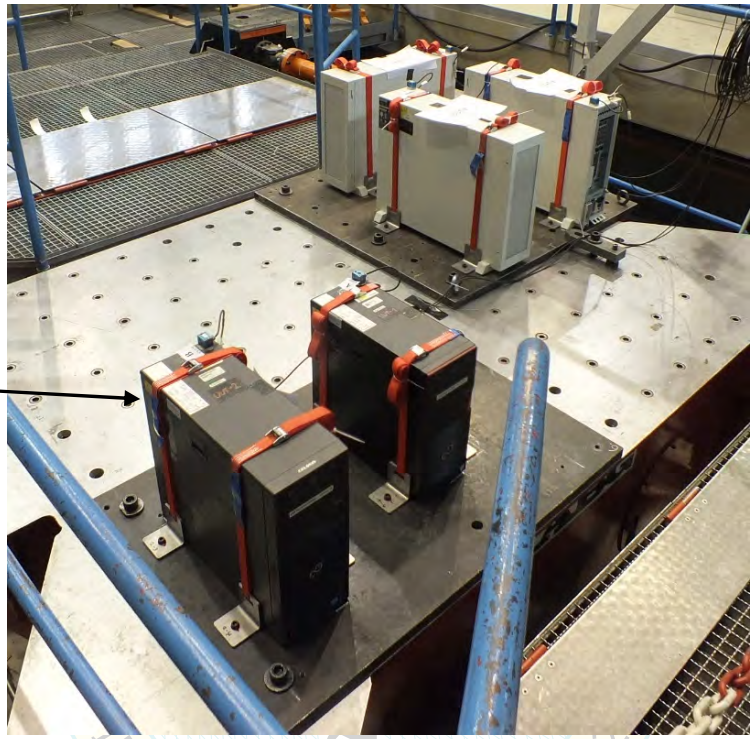
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (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

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.

UUT_x-2	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1" wide hand-tightened cam buckle strap (200lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) 3/8 grade 8 bolt each.



Manufacturer: Siemens Healthcare GmbH	**Test Location:** Environmental Test Laboratory
Component: ICS Tower 12E	**Test Date:** January 2017
Model Number: 10864203	**Report Number:** TAF4-PB-17-033-V1
UUT Function: Imaging control system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
34	9.8	24.4	19.7	> 33.0	20.3	> 33.0

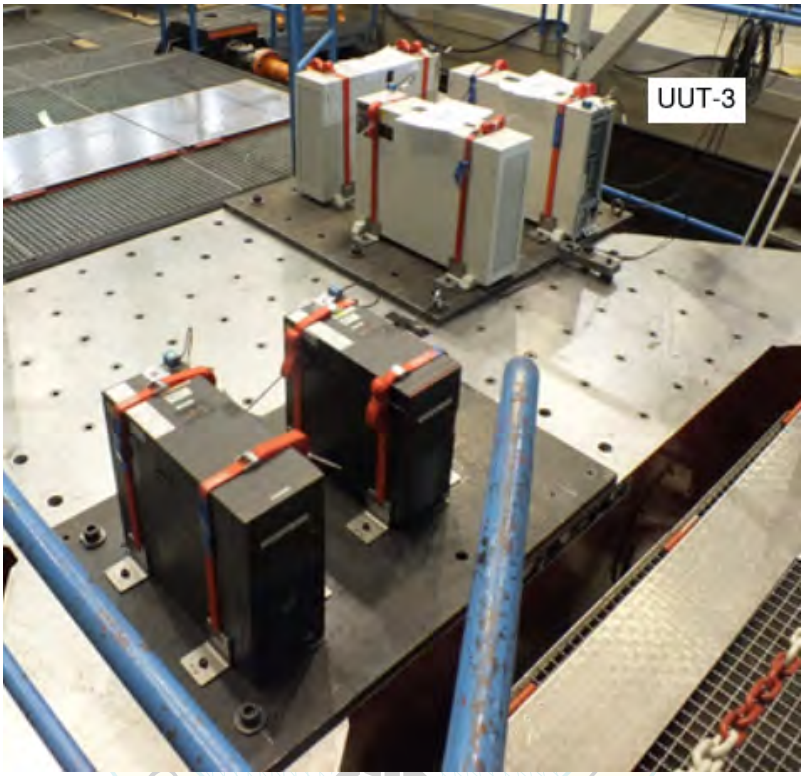
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (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

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.

UUT_x-3	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1" wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: PC IRSmx4d Imaging System	**Test Date:** January 2017
Model Number: 10890636	**Report Number:** TAF4-PB-17-033-V1
UUT Function: Imaging system PC	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
61	26.2	10.0	20.1	> 33.0	26.0	> 33.0

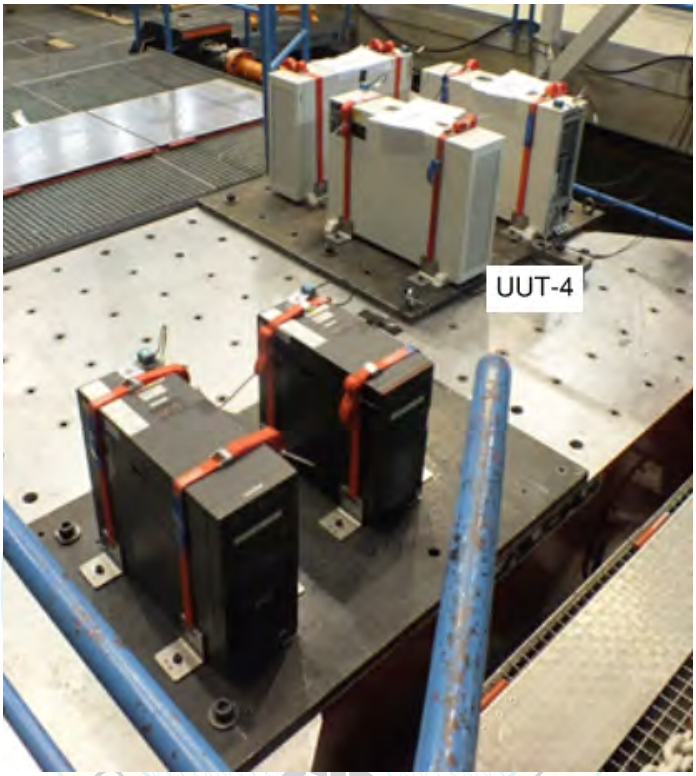
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (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

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.

UUT_x-4	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1" wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: PC IRSmx4b Imaging System	**Test Date:** January 2017
Model Number: 10890634	**Report Number:** TAF4-PB-17-033-V1
UUT Function: Imaging system PC	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
58	30.3	10.1	20.0	> 33.0	23.6	> 33.0

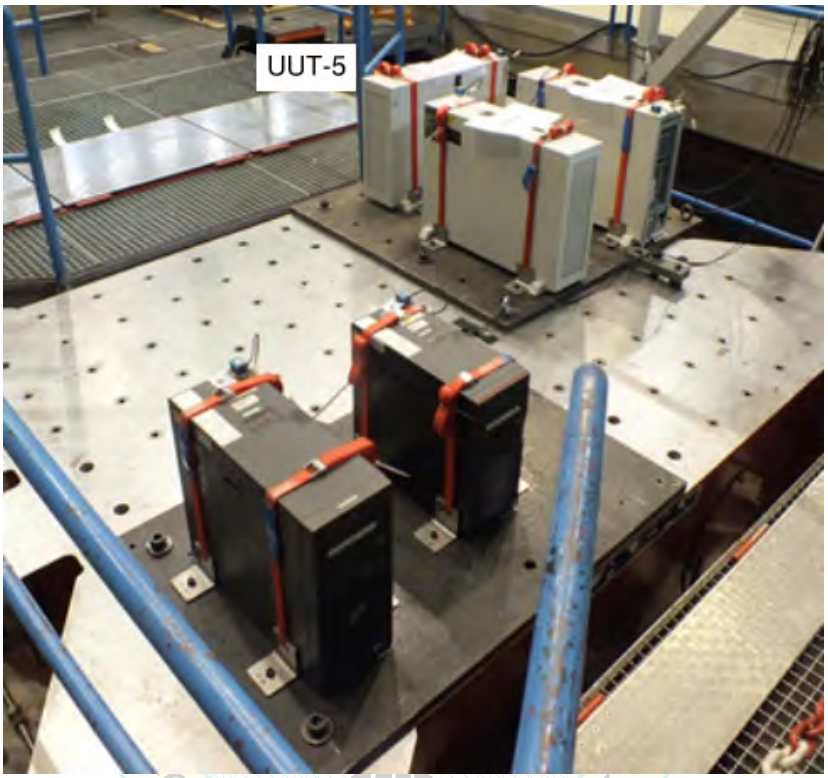
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (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

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.

UUT_x-5	**UNIT UNDER TEST (UUT) SUMMARY SHEET**	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1" wide hand-tightened cam buckle strap (560lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) M10 grade 8.8 bolt each.



Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: PC IRSmx4c Imaging System	**Test Date:** January 2017
Model Number: 10890635	**Report Number:** TAF4-PB-17-033-V1
UUT Function: Imaging system PC	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
53	30.3	10.1	20.0	29.5	> 33.0	> 33.0

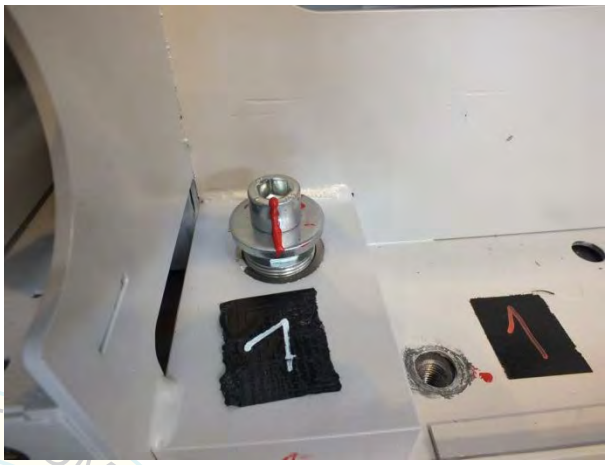
SEISMIC TEST PARAMETERS

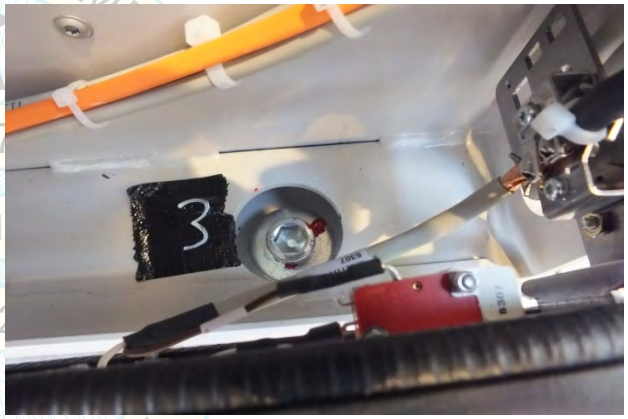
Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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.

UUT_w-1	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Rigid floor mounted with (4) M16 bolts





Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: SOMATOM Confidence Gantry	**Test Date:** October 2016
Model Number: 10590100	**Report Number:** TAF4-PB-16-370-V1

UUT Function: Continuous rotating x-ray to generate diagnostic imaging

UUT Description: Component of SOMATOM CT systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,523	93.7	36.8	78.0	11.7	15.0	> 33.0

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} (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

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.

UUT_w-2	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted with (4) M10 bolts

Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: PHS 1b Patient Table	**Test Date:** October 2016
Model Number: 10643655	**Report Number:** TAF4-PB-16-370-V1
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,220	29.5	96.3 – 159.3	19.7 – 36.2	11.6	5.8	11.5

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4″ (135.7″ length), vertical height of 36.2″, and a total simulated patient weight of 374lbs.

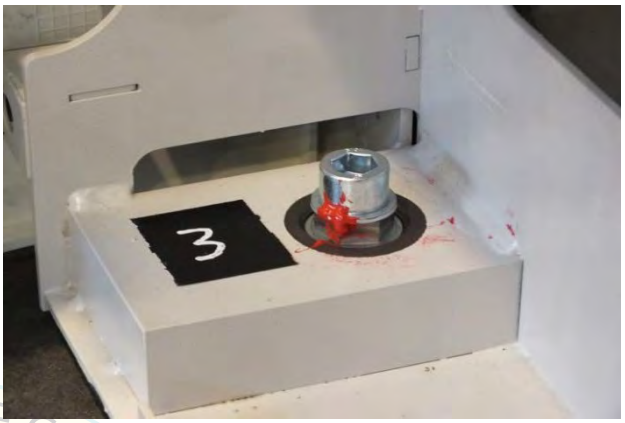
SEISMIC TEST PARAMETERS

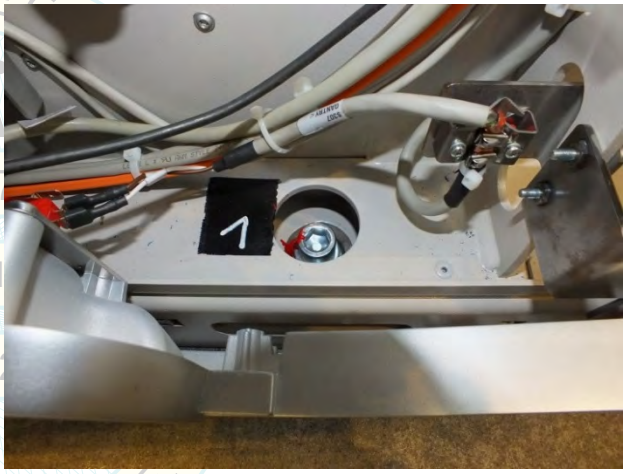
Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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.

UUT_V-1	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted with (4) M16 bolts





Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: SOMATOM Drive Gantry	**Test Date:** May 2016
Primary Model Number: 10430610 **Secondary Model Number:** 10431700	**Report Number:** TAF4-PB-16-266-V1
UUT Function: Continuous rotating x-ray to generate diagnostic imaging	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
5,672	94.5	48.0	78.4	11.5	23.7	> 33.0

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} (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

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.

UUT_V-3	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Rigid floor mounted with (4) M10 bolts

Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: MPT-2n	**Test Date:** May 2016
Model Number: 11268202	**Report Number:** TAF4-PB-16-266-V1
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,483	29.5	96.3 – 175.0	21.6 – 36.2	11.6	4.0	15.7

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal operating position with a horizontal extension of 39.4″ (135.7″ length), vertical height of 36.2″, and a total simulated patient weight of 308lbs.

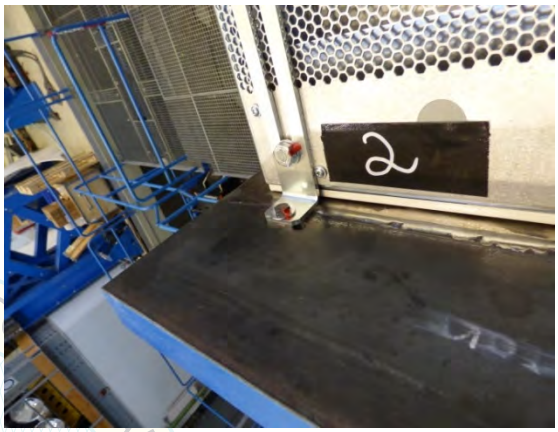
SEISMIC TEST PARAMETERS

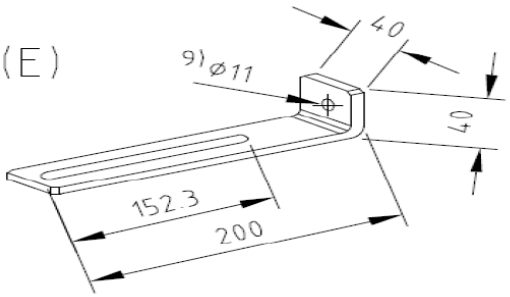
Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	--	--
	2.50	0.0	1.5	--	--	1.67	0.67

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.

UUT_V-4	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Rigid wall mounted at top back side of unit with (2) M8 grade 8 bolts and rigid floor mounted with (4) M10 grade 8 bolts. Siemens wall mount brackets, shown below, bolt thru the long leg, at the beginning of the slot, to the UUT with a single M12 grade 8.8 bolt torqued at 50 ft-lbs.





Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: Power Distribution Cabinet (PDC-A)	**Test Date:** May 2016
Model Number: 10662877	**Report Number:** TAF4-PB-16-266-V1
UUT Function: Power distribution to CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,162	35.4	27.2	76.8	N/A	N/A	N/A

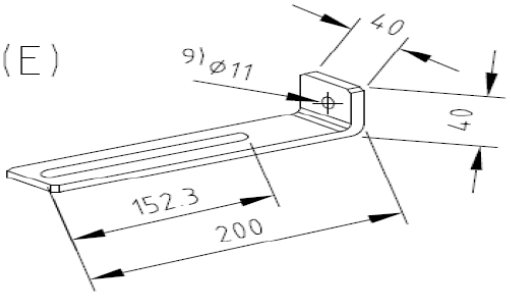
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (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

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.

UUT_V-5	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Rigid wall mounted at top back side of unit with (2) M8 grade 8 bolts and rigid floor mounted with (4) M10 grade 8 bolts. Siemens wall mount brackets, shown below, bolt thru the long leg, at the beginning of the slot, to the UUT with a single M12 grade 8.8 bolt torqued at 50 ft-lbs.



Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: Power Distribution Cabinet (PDC-B)	**Test Date:** May 2016
Model Number: 10662878	**Report Number:** TAF4-PB-16-266-V1
UUT Function: Power distribution to CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
814	35.4	27.2	76.8	N/A	N/A	N/A

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} (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

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.

UUT_u-2	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

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

Manufacturer: Siemens Healthcare GmbH	**Test Location:** Environmental Test Laboratory
Component: PHS-5 Patient Table	**Test Date:** November 2014
Model Number: 10742323	**Report Number:** SQ35-1423-01
UUT Function: Motorized patient table for moving patient through CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,506	29.5	100.5 – 179.5	24.3 – 41.7	2.9	2.6	10.7

The patient table moves vertically and horizontally to accommodate different patients and procedures. The system was tested in the normal 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} (g)	A_{RIG-V} (g)
CBC 2022 / 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 maintained structural integrity during and after the ICC-ES AC156 test.

UUT_u-4	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor/wall mounted with (4) 5/16″ bolts to wall fixture and (2) ½″ bolts to floor Rigid wall mounted at top back side of unit with (4) 5/16" grade 8 bolts to wall fixture and rigid floor mounted with 2 - ½″ 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 Test Laboratory
Component: Power Distribution Cabinet	**Test Date:** November 2014
Model Number: 10757110	**Report Number:** SQ35-1423-01
UUT Function: Power distribution to CT system	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
2,027	47.2	29.5	75.2	N/A	N/A	N/A

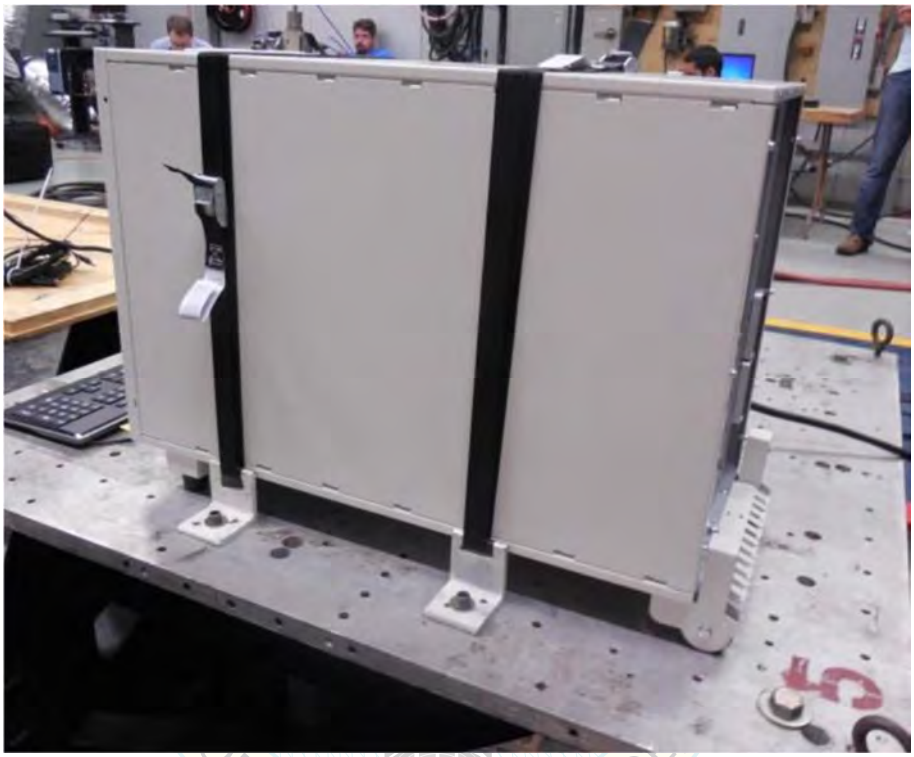
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022 / 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 maintained structural integrity during and after the ICC-ES AC156 test.

UUT_u-6	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounted using Siemens provided seismic restraint kit SN:10432402. Seismic restraint kit includes 1" wide hand-tightened cam buckle strap (200lb WLL) thru angle brackets at each side of UUT. Angle brackets are anchored with (1) 3/8 grade 8 bolt each.



Manufacturer: Siemens Healthcare GmbH	**Test Location:** Environmental Test Laboratory
Component: PC IRSmx4a Imaging System	**Test Date:** November 2014
Model Number: 10742951	**Report Number:** SQ35-1423-01
UUT Function: Imaging system PC	
UUT Description: Component of SOMATOM CT systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
86	12.2	27.0	19.7	17.5	14.6	> 33.0

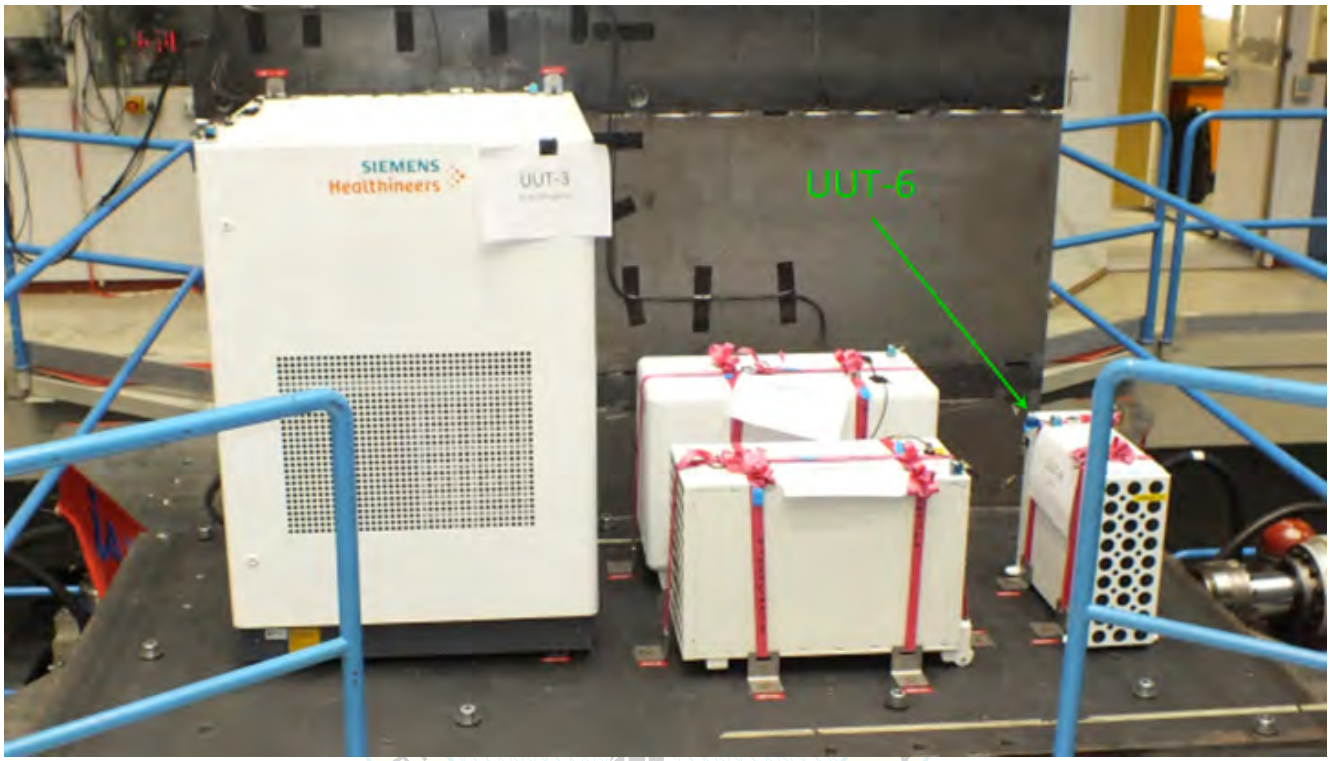
SEISMIC TEST PARAMETERS

Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2022 / 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 maintained structural integrity during and after the ICC-ES AC156 test.

UUT_t-6	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

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



Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: IRSxp2a	**Test Date:** March 2022
Model Number: 11652201	**Report Number:** TA-B-000477-V1
UUT Function: Image Reconstruction System	
UUT Description: Component of the NAEOTOM Alpha CT systems.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
44.1	7.0	21.7	17.1	> 33	16.7	> 33

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} (g)	A_{RIG-V} (g)
CBC 2022 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	-	-
	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 maintained structural integrity during and after the ICC-ES AC156 test.