APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0691

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. 3, Forchheim, Germany 91301

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

Product Information

Product Name: SOMATOM X.cite CT System

Product Model Number(s): SOMATOM X.cite CT System

Product Category: CT Systems

Product Sub-Category: CT Systems

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

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: 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

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: IABG TEST LABORATORY

Contact Person: Stephen Roedling

Mailing Address: Einsteinstrasse 20, Ottobrunn Bavaria 85521

Telephone: (49896) 088-2052 Email:

Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal	(A Flx-H), g=	3.20	(A Rig-H), g=	2.15
Vertical	(A Flx-V), g=	1.68	(A Rig-V), g=	0.68

S_{DS} (Design spectral response acceleration at short period, g) = 2.5 @ z/h = 0; 2.0 @ z/h = 1

Hf (Force amplification height factor) = 1 @ z/h = 0; 3.5 @ z/h = 1

Ru (Structure ductility redution factor) = 1 @ z/h = 0; 1.3 @ z/h = 1

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

HCAI Approval (For Office Use Only) - **Approval Expires on 04/26/2032**

Date: 4/24/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

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 X.cite CT System

System Component[1]	Siemens Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT[2]
		Width	Depth	Height			
Gantries							
X.cite (air cooled)	11330001	99.8	37.7	78.1	4409	floor	UUT_x-1
X.cite (water cooled)	11330001	99.8	37.7	78.1	4638	floor	interpolated
X.ceed (water cooled)	11330002	99.8	37.7	78.1	4748	floor	UUT_y-2
X.ceed (water cooled)	11330002	99.8	37.7	78.1	4748	floor	UUT_z-1
Patient Table[3]							
Vitus PHS	11061336	27.8	100.8-182.7	14.8-38.0	1040	floor	UUT_x-3
UPS - IRS Rack							
UPS-IRS Rack IRSxp1e	11331272	15.4	32.7	22.5	181	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:
x - TAB3-PB-20-140-V1 / y - TAB3-PB-21-074-V1 / z - TA-B-007773_V1

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

SEISMIC CERTIFICATION LIMITS

CODE	Ip	S_{DS} (g)	z / h	H_f	R_μ	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2025	1.5	2.0	1.0	3.5	1.3	3.20	2.15	1.34	0.54
		2.5	0	1.0	1.0	2.50	1.00	1.68	0.68

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

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

Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: X.cite Gantry (air cooled)	**Test Date:** September 15-17, 2020
Model Number: 11330001	**Report Number:** TAB3-PB-20-140-V1
UUT Function: Continuous rotating x-ray to generate diagnostic imaging	
UUT Description: Gantry with air cooling for the SOMATOM X.Cite CT system.	
UUT Modifications: Modifications required for the UUT to pass the seismic test will be incorporated in the standard production units.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,410	99.8	37.7	78.1	12.6	6.6	24.5

SEISMIC TEST PARAMETERS – ICC-ES AC 156-24

CODE	S_{DS} (g)	z / h	H_f	R_μ	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2025	2.0	1.0	3.5	1.3	1.5	3.20	2.15	-	-
	2.5	0	1.0	1.0	1.5	-	-	1.68	0.68

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 (5) 5/8" grade 8 bolts

Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: X.ceed Gantry (water cooled)	**Test Date:** May 3-6, 2021
Model Number: 11330002	**Report Number:** TAB3-PB-21-074-V1
UUT Function: Continuous rotating x-ray to generate diagnostic imaging	
UUT Description: Gantry with water cooling for the SOMATOM X.Ceed CT system.	
UUT Modifications: Modifications required for the UUT to pass the seismic test will be incorporated in the standard production units.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,748	99.8	37.7	78.1	12.5	6.4	24.5

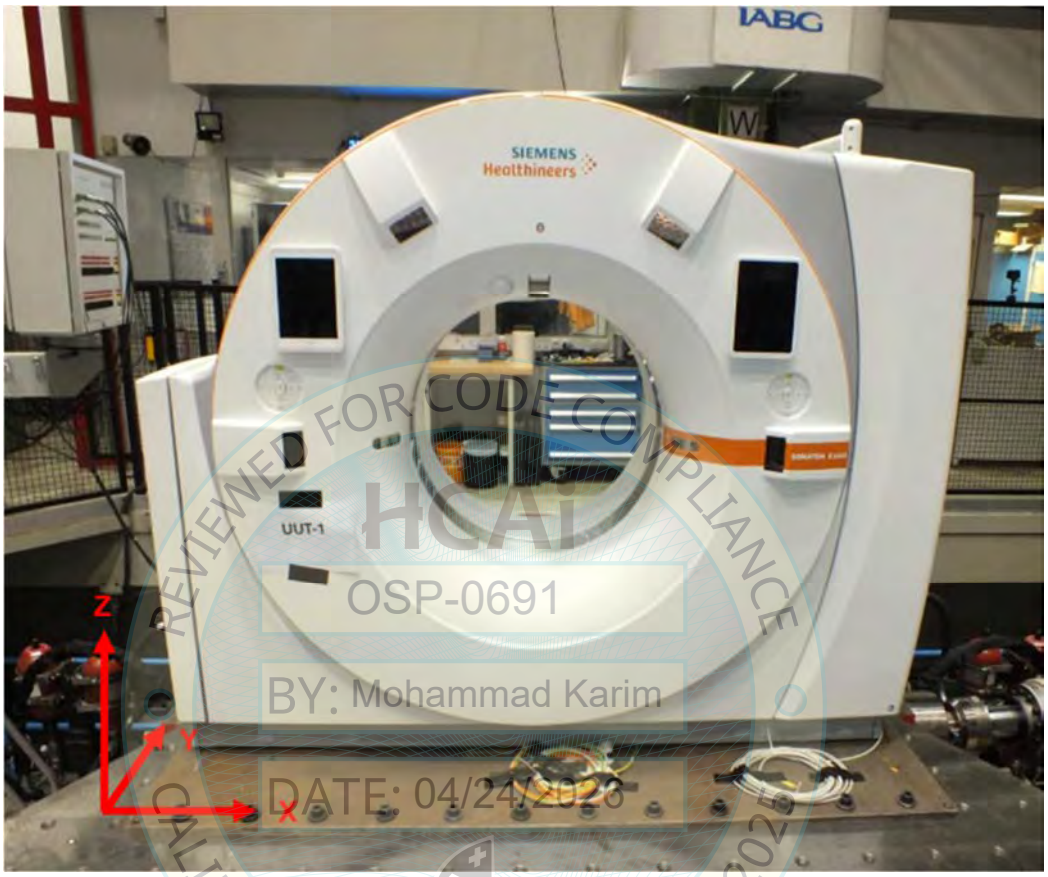
SEISMIC TEST PARAMETERS – ICC-ES AC 156-24

CODE	S_{DS} (g)	z / h	H_f	R_μ	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2025	2.0	1.0	3.5	1.3	1.5	3.20	2.15	-	-
	2.5	0	1.0	1.0	1.5	-	-	1.68	0.68

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-1	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:** IABG mbH, Germany
Component: X.ceed Gantry (water cooled)	**Test Date:** December 9, 2025
Model Number: 11330002	**Report Number:** TA-B-007773_V1

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

UUT Description: Gantry with water cooling for the SOMATOM X.Ceed CT system.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,748	99.8	37.7	78.1	13.6	8.3	25.2

SEISMIC TEST PARAMETERS – ICC-ES AC 156-24

CODE	S_{DS} (g)	z / h	H_f	R_μ	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2025	2.0	1.0	3.5	1.3	1.5	3.20	2.15	-	-
	2.5	0	1.0	1.0	1.5	-	-	1.68	0.68

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 with (6) 5/8" grade 8 bolts.

Manufacturer: Siemens Healthcare GmbH	**Test Location:** IABG mbH, Germany
Component: Vitus PHS	**Test Date:** September 15-17, 2020
Model Number: 11061336	**Report Number:** TAB3-PB-20-140-V1
UUT Function: Motorized patient support	
UUT Description: Patient table for the SOMATOM X.cite CT system	

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,580	27.8	140.2	38.0	16.6	7.6	11.3

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 38 inches, and with a total simulated patient weight of 540lbs.

SEISMIC TEST PARAMETERS – ICC-ES AC 156-24

CODE	S_{DS} (g)	z / h	H_f	R_μ	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2025	2.0	1.0	3.5	1.3	1.5	3.20	2.15	-	-
	2.5	0	1.0	1.0	1.5	-	-	1.68	0.68

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 mounting using Siemens provided seismic restraint kit SN:10432402. 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-IRS Rack - IRSxple	**Test Date:** September 15-17, 2020
Model Number: 11331272	**Report Number:** TAB3-PB-20-140-V1
UUT Function: Combined Uninterruptable Power System and Image Reconstruction System	
UUT Description: Component of the SOMATOM X.cite CT system.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
181	15.4	32.7	22.5	22.7	7.6	> 33

SEISMIC TEST PARAMETERS – ICC-ES AC 156-24

CODE	S_{DS} (g)	z / h	H_f	R_μ	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2025	2.0	1.0	3.5	1.3	1.5	3.20	2.15	-	-
	2.5	0	1.0	1.0	1.5	-	-	1.68	0.68

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.