



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

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0421

HCAI Special Seismic Certification Preapproval (OSP)

Type: New 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.maurer@siemens-healthineers.com

Product Information

Product Name: SOMATOM Force CT System

Product Model Number(s): See attachments

Product Category: CT Systems

Product Sub-Category: CT Systems

General Description: Multiple component system for the provision of Computed Tomography medical diagnostic applications

Mounting Description: Several - See Certified Product Tables

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: W.E. Gundy & Associates, Inc.

Contact Person: Travis Soppe

Mailing Address: 250 South 5th Street, Suite 510, Boise, ID 83702

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

Title: President

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



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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 ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3

Other (Please Specify): _____

Testing Laboratory

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

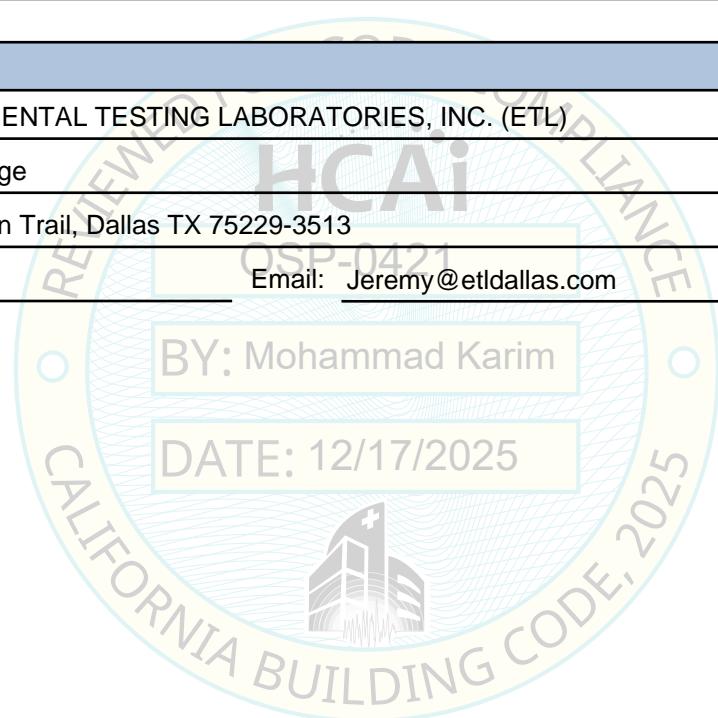
Contact Person: Jeremy Lange

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

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

BY: Mohammad Karim

DATE: 12/17/2025



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Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

Horizontal	(A_{Flx-H}) , g=	3.2	(A_{Rig-H}) , g=	2.15
Vertical	(A_{Flx-V}) , g=	1.34	(A_{Rig-V}) , g=	0.54

SDS (Design spectral response acceleration at short period, g) = 2.0

H_f (Force amplification height factor) = 3.5

R_u (Structure ductility reduction factor) = 1.3

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

HCAi Approval (For Office Use Only) - Approval Expires on 12/17/2031

Date: 12/17/2025

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable):

BY: Mohammad Karim

DATE: 12/17/2025

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

System: SOMATOM Force CT

System Component¹⁾	Siemens Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT
		Width	Depth	Height			
Gantries							
SOMATOM Force	10742327	94.5	46.5	78.4	5880	floor	UUT-1
Patient Tables²							
PHS-5	10742323	29.5	100.5 - 179.5	24.3 - 41.7	1066	floor	UUT-2
MPT4	10742324	27.8	99.5 - 179.5	23.0 - 38.5	1388	floor	UUT-3
Power Distribution Cabinet							
Power Distribution Cabinet	10757110	47.2	29.5	75.2	2027	floor/wall	UUT-4
Image Control and Reconstruction							
Image Control System	10864203	7.3	18.9	16.9	34	floor	UUT-5
Image Reconstruction System	10742951	12.2	27.0	19.7	86	floor	UUT-6

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-component within the tested units.

² Patient table weight does not include simulated patient weights of 440lb.

SEISMIC CERTIFICATION LIMITS: CBC 2025 - $I_p = 1.5$

System Component	S_{Ds} (g)	z / h	H_f	R_μ	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
Gantries	2.0	1.0	3.5	1.3	3.20	2.15	1.34	0.54
Patient Tables	2.0	1.0	3.5	1.3	3.20	2.15	1.34	0.54
Power Distribution Cabinet	2.0	1.0	3.5	1.3	3.20	2.15	1.34	0.54
Image Control and Reconstruction	2.0	1.0	3.5	1.3	3.20	2.15	1.34	0.54

UUT-1

UNIT UNDER TEST (UUT)
SUMMARY SHEET

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



Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: SOMATOM Force Gantry	Test Date: November 4 - 6, 2014
Model Number: 10742327	Report Number: SQ35-1423-01

UUT Function: Continuous rotating detector for high-resolution data acquisition

UUT Description: Component of the SOMATOM Force CT system - water cooled

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
5,880	94.5	46.5	78.4	6.7	11.2	10.2

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

	S _{DS} (g)	z / h	H _f	R _p	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	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-2**UNIT UNDER TEST (UUT)
SUMMARY SHEET****Mounting Details:** Rigid floor mounted with 4 - 5/8" grade 8 bolts.

BY: Mohammad Karim

DATE: 12/17/2025

Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: PHS-5 Patient Table	Test Date: November 4 - 6, 2014
Model Number: 10742323	Report Number: SQ35-1423-01
UUT Function: Motorized patient table	
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	179.5	34.0	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 vertical operating position, with the table top extended, and a total simulated patient weight of 440lbs.

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

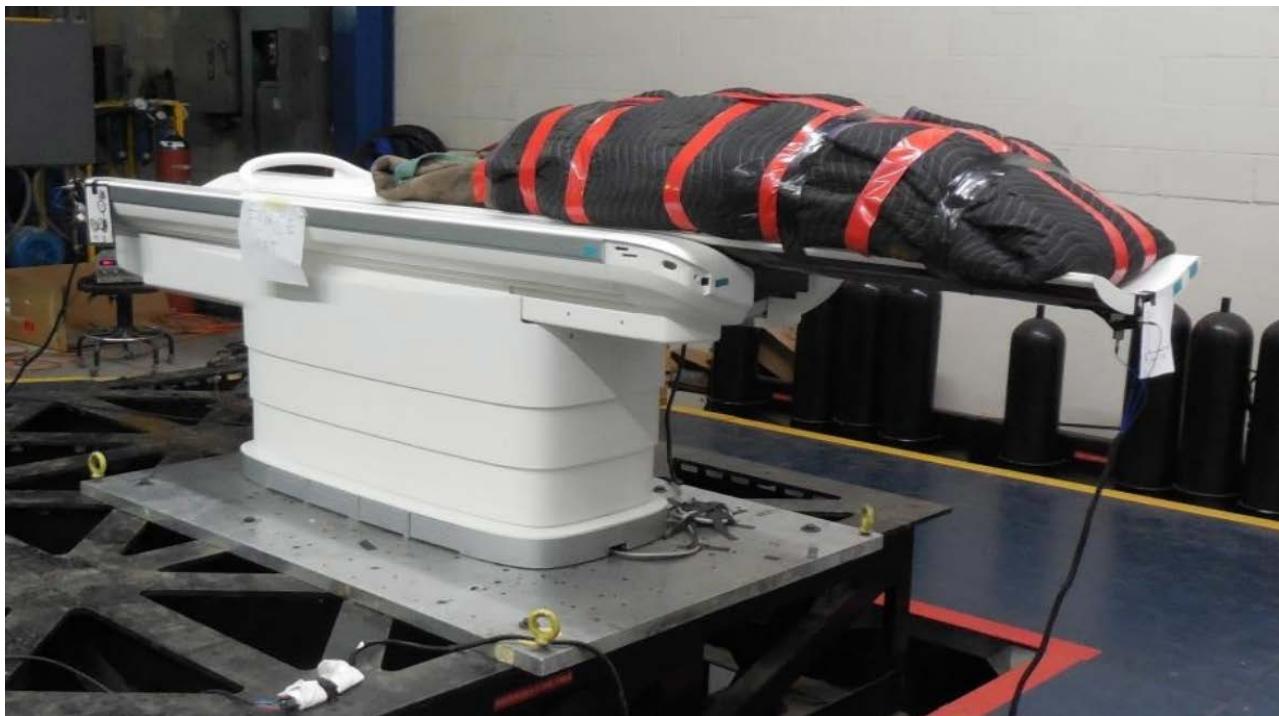
	S _{DS} (g)	z / h	H _f	R _p	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	1.34	0.54

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-3

UNIT UNDER TEST (UUT)
SUMMARY SHEET

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



DATE: 12/17/2025

Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: MPT4 Patient Table	Test Date: November 4 - 6, 2014
Model Number: 10742324	Report Number: SQ35-1423-01
UUT Function: Motorized patient table	
UUT Description: Component of SOMATOM CT Systems	

UUT PROPERTIES

Weight (lb) with Patient*	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,828	27.8	179.5	34.0	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 - CBC 2025 / ICC-ES AC 156-24

	S _{DS} (g)	z / h	H _f	R _p	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	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-4

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 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 Laboratory

Component: Power Distribution Unit

Test Date: November 4 - 6, 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	NA	NA	NA

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

	S _{DS} (g)	z / h	H _f	R _p	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	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-5

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.

**Manufacturer:** Siemens Healthcare GmbH**Test Location:** Environmental Testing Laboratory**Component:** Image Control System**Test Date:** November 4 - 6, 2014**Model Number:** 10864203**Report Number:** SQ35-1423-01**UUT Function:** Computer for data acquisition, image reconstruction, and processing**UUT Description:** Component of SOMATOM CT Systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
34	7.3	18.9	16.9	>33	30.2	>33

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

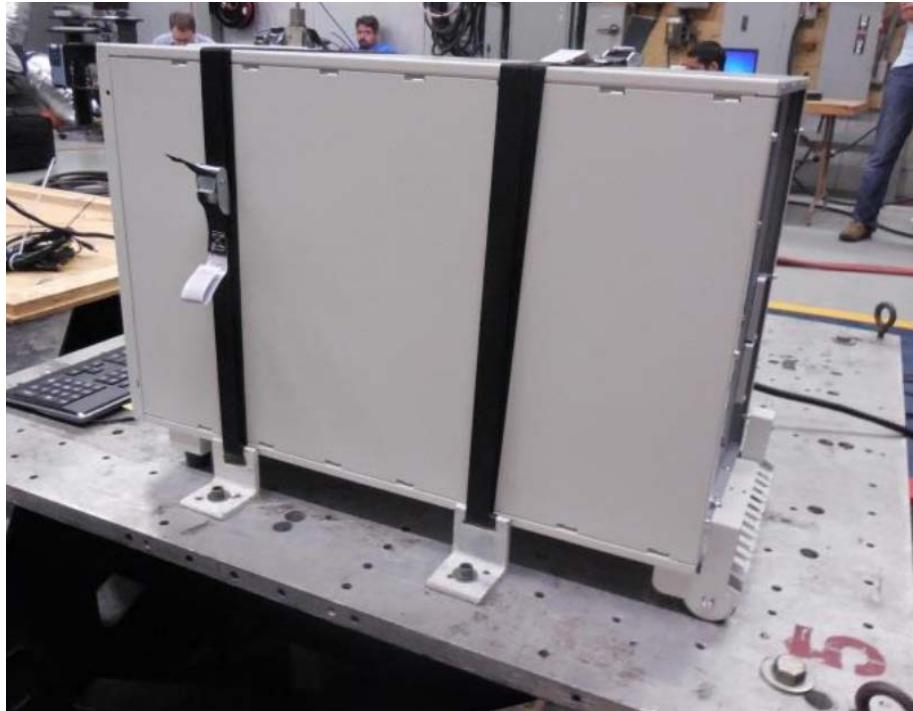
	S _{DS} (g)	z / h	H _f	R _p	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	1.34	0.54

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-6

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.

**Manufacturer:** Siemens Healthcare GmbH**Test Location:** Environmental Testing Laboratory**Component:** Image Reconstruction System (IRSmx4) **Test Date:** November 4 - 6, 2014**Model Number:** 10742951 **Report Number:** SQ35-1423-01**UUT Function:** Computer for data acquisition, image reconstruction, and processing**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

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

	S _{DS} (g)	z / h	H _f	R _p	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	2.00	1.0	3.5	1.30	1.5	3.20	2.15	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.