



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-0390

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: SIEMENS HEALTHCARE

Manufacturer's Technical Representative: Hu Yong

Mailing Address: 278 Zhou Zhu Rd., PuDong New District, ShangHai 201318

Telephone: (8621) 388-9500

Email: zhiyong.hu@siemens-healthineers.com

Product Information

Product Name: SOMATOM Perspective CT System

Product Model Number(s): See attachments

Product Category: CT Systems

Product Sub-Category: CT Systems

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

Mounting Description: Base Mounted Rigid

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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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: W.E. GUNDY & ASSOCIATES 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: 12/10/2025



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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) =	<u>See attachments</u>
Sds (Design spectral response acceleration at short period, g) =	<u>See attachments</u>
a_p (Amplification factor) =	<u>See attachments</u>
R_p (Response modification factor) =	<u>See attachments</u>
Ω_0 (System overstrength factor) =	<u>See Attachment</u>
I_p (Importance factor) =	<u>1.5</u>
z/h (Height ratio factor) =	<u>1</u>
Natural frequencies (Hz) =	<u>See Attachment</u>
Overall dimensions and weight =	<u>See Attachment</u>

HCAI Approval (For Office Use Only) - Approval Expires on 12/10/2031

Date: <u>12/10/2025</u>		
Name: <u>Mohammad Karim</u>	Title: <u>Supervisor, Health Facilities</u>	
Special Seismic Certification Valid Up to: Sds (g) = <u>See attachments</u>	z/h = <u>1</u>	
Condition of Approval (if applicable): _____		

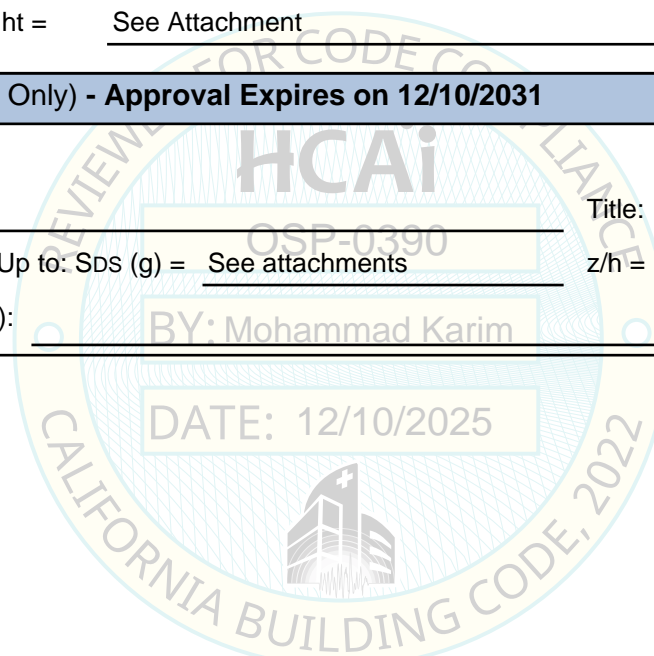


TABLE 1	SIEMENS HEALTHCARE GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS					 WEGAI <small>W.E. GUNDY & ASSOCIATES, INC.</small> <small>STRUCTURAL & EARTHQUAKE ENGINEERING</small>		
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Manufacturer: Siemens Healthcare GmbH

System: SOMATOM Perspective CT

System Component ¹⁾	Siemens Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT
		Width	Depth	Height			
Gantries							
SOMATOM Perspective	10495243	89.6	26.8	71.7	2941	floor	UUT-1
Patient Tables							
Patient Table	10355389	97.4 - 121.9	27.6	37.3	753	floor	UUT-2 ²
Image Control and Reconstruction							
Image Control System	10661038	8.5	20.6	17.5	48	floor	UUT-3
Image Reconstruction System	10661000	7.0	25.5	17.8	61	floor	UUT-4
Line Control Box							
Line Control Box	10165884	11.8	29.5	32.0	249	floor	UUT-5
Power Supply							
Eaton EX 2200 UPS	07735090	5.1	19.0	17.6	69	floor	UUT-6

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								
System Component	Code	S _{DS} (g)	z / h	I _p	a _p	R _p	Ω ₀	F _p / W _p
Gantries	CBC 2022	2.00	1.0	1.50	1.0	1.5	1.5	2.40
Patient Tables	CBC 2022	2.00	1.0	1.50	1.0	1.5	1.5	2.40
Image Control and Reconstruction	CBC 2022	1.67	1.0	1.50	1.0	2.5	2.0	1.20
Line Control Box	CBC 2022	1.67	1.0	1.50	1.0	2.5	2.0	1.20
Power Supply	CBC 2022	1.67	1.0	1.50	1.0	2.5	2.0	1.20

UUT-1

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 1/2" grade 8 bolts



Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: SOMATOM Perspective Gantry	Test Date: January 15, 2014
Model Number: 10495243	Report Number: SQ35-1401-01 Rev.1
UUT Function: Continuous rotating detector for high-resolution data acquisition	
UUT Description: Component of the SOMATOM Perspective CT system	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
2,941	89.6	26.8	71.7	4.2	5.9	15.3

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			1.68	0.68

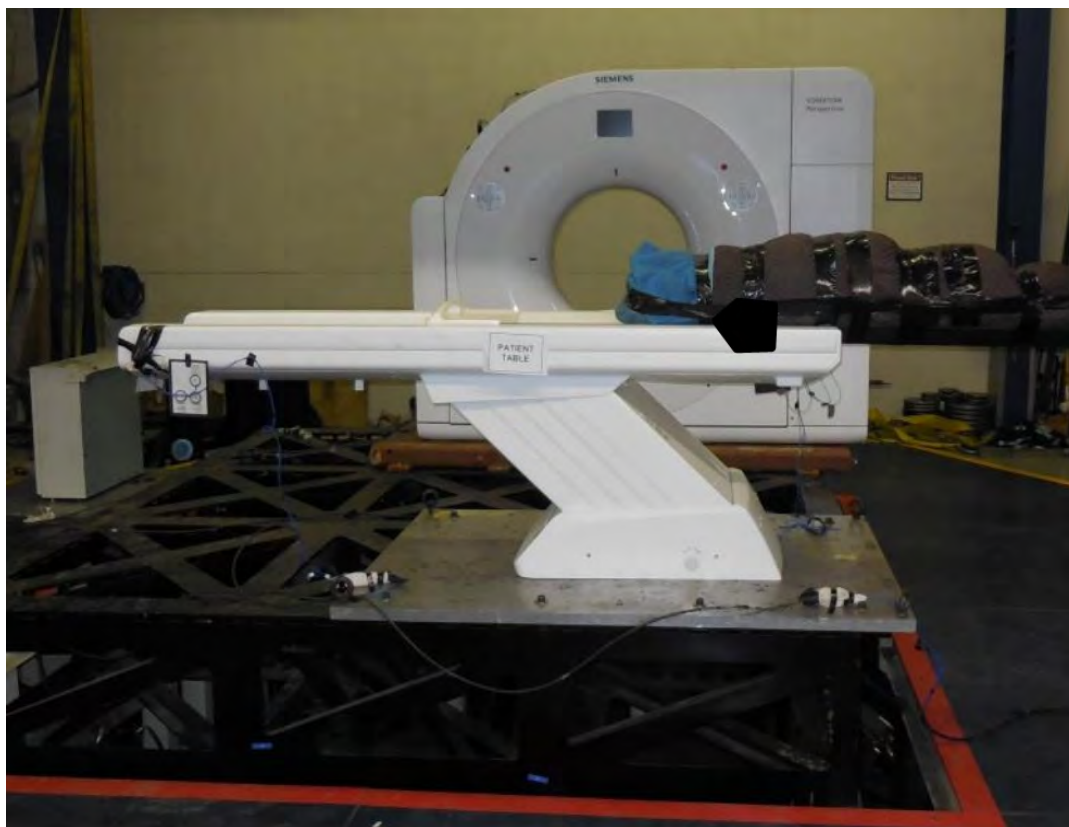
Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

UUT-2

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 1/2" grade 8 bolts.



Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: Patient Table	Test Date: January 15, 2014
Model Number: 10355389	Report Number: SQ35-1401-01 Rev.1
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
1,193	97.4 - 121.9	27.6	37.3	3.1	5.3	4.8

*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

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			1.68	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-3	UNIT UNDER TEST (UUT) SUMMARY SHEET	
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Mounting Details: Rigid floor mounted with two hand-tightened, 1" wide straps (300lb 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 a 3/4" plywood floor with (2) 1/4" wood screws in each bracket.



Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: Image Control System	Test Date: January 15, 2014
Model Number: 10661038	Report Number: SQ35-1401-01 Rev.1
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
48	8.5	20.6	17.5	19.8	31.9	>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	1.67	1.0	1.5	2.67	2.00		
	2.50	0.0	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-4	UNIT UNDER TEST (UUT) SUMMARY SHEET	
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Mounting Details: Rigid floor mounted with two hand-tightened, 1" wide straps (300lb 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 a 3/4" plywood floor with (2) 1/4" wood screws in each bracket.



Manufacturer: Siemens Healthcare GmbH				Test Location: Environmental Testing Laboratory			
Component: Image Reconstruction System				Test Date: January 15, 2014			
Model Number: 10661000				Report Number: SQ35-1401-01 Rev.1			
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	
61	7.0	25.5	17.8	17.1	25.9	28.7	
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	1.67	1.0	1.5	2.67	2.00		
	2.50	0.0	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-5

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 3/8" grade 8 bolts



Manufacturer: Siemens Healthcare GmbH	Test Location: Environmental Testing Laboratory
Component: Line Control Box	Test Date: January 15, 2014
Model Number: 10165884	Report Number: SQ35-1401-01 Rev.1
UUT Function: System controls	
UUT Description: Component of SOMATOM CT Systems	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
249	11.8	29.5	32.0	13.9	25.3	>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	1.67	1.0	1.5	2.67	2.00		
	2.50	0.0	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-6

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with two hand-tightened, 1" wide straps (300lb 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 a 3/4" plywood floor with (2) 1/4" wood screws in each bracket.



Manufacturer: Siemens Healthcare GmbH

Test Location: Environmental Testing Laboratory

Component: Eaton EX 2200 UPS

Test Date: January 15, 2014

Model Number: 07735090

Report Number: SQ35-1401-01 Rev.1

UUT Function: Uninterruptable power supply

UUT Description: Component of SOMATOM CT Systems

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
69	5.1	19.0	17.6	10.9	25.9	28.2

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	1.67	1.0	1.5	2.67	2.00		
	2.50	0.0	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.