



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

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

OFFICE USE ONLY

APPLICATION #: OSP-0410

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: SIEMENS HEALTHCARE GmbH

Manufacturer's Technical Representative: Martin Knierim

Mailing Address: Siemensstr. 1, Forchheim, Ba 91301

Telephone: (49919) 118-9539

Email: martin.knierim@siemens-healthineers.com

Product Information

Product Name: Motorized Operating Table Systems

Product Type: NA

Product Model Number: Artis Patient Table

General Description: Components of a motorized operating table system.

Mounting Description: Rigid, See Certified Product Tables

Tested Seismic Enhancements: None

DATE: 09/02/2021

Applicant Information

Applicant Company Name: W.E. GUNDY & ASSOCIATES INC.

Contact Person: Travis Soppe

Mailing Address: P.O. Box 9121, Boise, ID 83707

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): _____

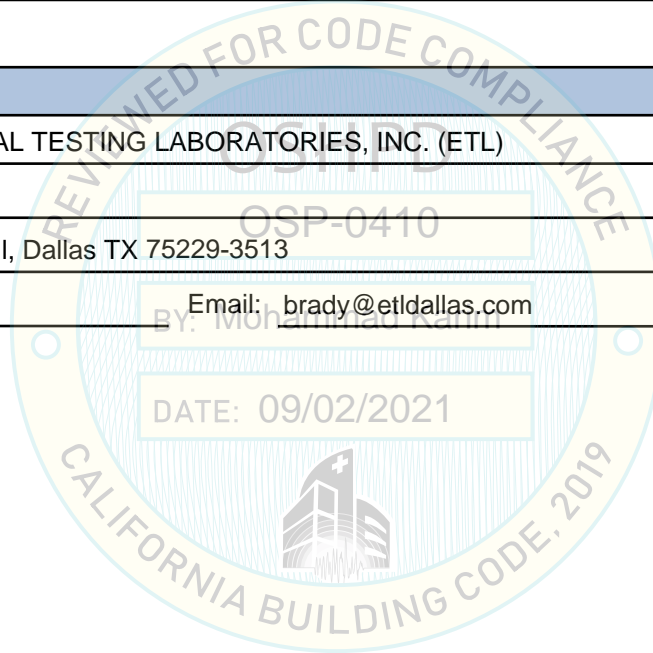
Testing Laboratory

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

Contact Person: Brady Richard

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

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





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Seismic Parameters

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

SDS (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1.0)

a_p (Amplification factor) = See attachment

R_p (Response modification factor) = See attachment

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1

Natural frequencies (Hz) = See attachment

Overall dimensions and weight = See attachment

OSHPD Approval (For Office Use Only) - Approval Expires on 12/31/2025

Date: 9/2/2021

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.00 z/h = 1.0

Condition of Approval (if applicable): DATE: 09/02/2021

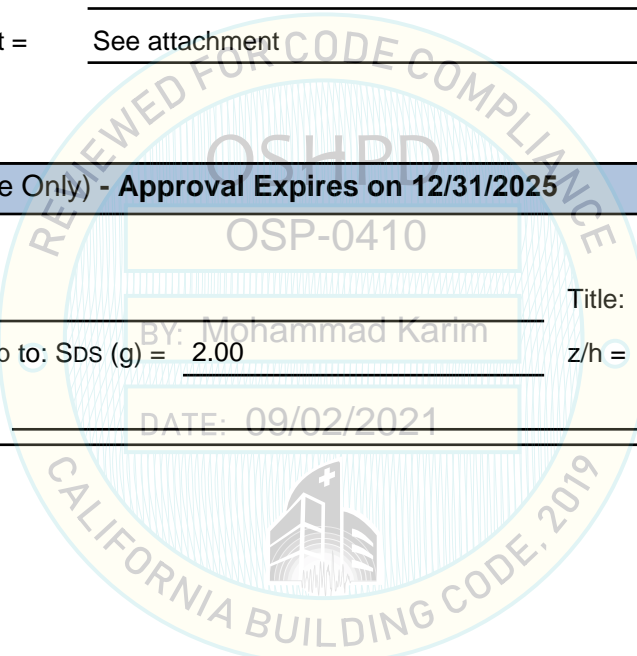


TABLE 1	SIEMENS HEALTHCARE GmbH					 WEGAI <small>W.E. GUNDY & ASSOCIATES, INC.</small> <small>STRUCTURAL & EARTHQUAKE ENGINEERING</small>		
	SPECIAL SEISMIC CERTIFICATION							
CERTIFIED SYSTEM AND COMPONENTS								

Manufacturer: Siemens Healthcare GmbH

System: ARTIS PATIENT TABLE

System Component ¹⁾	Siemens Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT
		Width	Depth	Height			
Patient Table							
AXA OR Table	10759278	34.5	111 - 137	30 - 43	1355	floor	UUT-1 ²
Patient Table Cabinet							
Patient Table Cabinet	10759278	23.8	17.6	86.5	261	floor/wall	UUT-2
System Control Cabinet							
System Control Cabinet	10308766	31.0	17.8	86.8	615	floor/wall	UUT-3
Universal ON/OFF Boxes							
ACE2 Universal On/Off	10608967	12.0	12.0	4.0	12	floor	UUT-4

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
Patient Tables	CBC 2019	2.0	1.0	1.50	1.0	1.5	2.0	2.40
Patient Table Cabinets	CBC 2019	2.0	1.0	1.50	2.5	6.0	2.0	1.50
System Control Cabinets	CBC 2019	2.0	1.0	1.50	2.5	6.0	2.0	1.50
Universal ON/OFF Boxes	CBC 2019	2.0	1.0	1.50	1.0	2.5	2.0	1.44

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: AXA OR Table | **Test Date:** July 2014

Model Number: 10759278 | **Report Number:** SQ35-1420-01 Rev. 1

UUT Function: Motorized patient table

UUT Description: Artis patient table with tilt and cradle, includes foot pedal controls (05771378) and servo control (10848398)

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,795	34.5	111 - 137	30 - 43	2.4	7.8	3.1

The patient table moves vertically, horizontally, rotates, and tilts to accommodate different patients and procedures. The system was tested in the normal vertical operating position of 32", 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 2019 / 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-2

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid floor / wall mounted with 2 - 3/8" grade 8 bolts to the floor and 4 - #12 sheet metal screws to the wall with L4x4x1/4 x 4" brackets and (1) 1/2" bolt to cabinet.



Manufacturer: Siemens Healthcare GmbH **Test Location:** Environmental Testing Laboratory

Component: Patient Table Cabinet **Test Date:** July 2014

Model Number: 10759278 **Report Number:** SQ35-1420-01 Rev. 1

UUT Function: Generator for patient table

UUT Description: Component of the AXA OR Table System

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
261	23.8	17.6	86.5	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 2019 / 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-3

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid floor / wall mounted with 2 - 3/8" grade 8 bolts to the floor and 4 - #12 sheet metal screws to the wall with L4x4x1/4 x 4" brackets and (1) 1/2" bolt to cabinet.



Manufacturer: Siemens Healthcare GmbH **Test Location:** Environmental Testing Laboratory

Component: System Control Cabinet **Test Date:** July 2014

Model Number: 10308766 **Report Number:** SQ35-1420-01 Rev. 1

UUT Function: System control for patient table

UUT Description: Component of the AXA OR Table System

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
615	31.0	17.8	86.8	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 2019 / 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-4

**UNIT UNDER TEST (UUT)
SUMMARY SHEET**



Mounting Details: Rigid desktop mounted 4 - #12 sheet metal screws to (2) 8" long L3.25x2x12GA LLV with 2" x 8" velcro strips to unit.



Manufacturer: Siemens Healthcare GmbH **Test Location:** Environmental Testing Laboratory

Component: ACE2 Universal On/Off Box **Test Date:** July 2014

Model Number: 10608967 **Report Number:** SQ35-1420-01 Rev. 1

UUT Function: Universal on/off switch

UUT Description: Subcomponent of the AXA OR Table system

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
12.0	12.0	12.0	4.0	>33	>33	>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 2019 / 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.