APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY	
APPLICATION #:	OSP – 0409

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Siemens Healthcare GmbH

Manufacturer's Technical Representative: Dieter Freitag

Mailing Address: Siemensstr. 3, D-91301 Forchheim, Germany

Telephone: +49 9191 185412 Email: freitag.dieter@siemens-healthineers.com

Product Information

Product Name: Luminos Agile MAX

Product Type: Radiography & Fluoroscopy medical imaging system

Product Model Number: See attachments
(List all unique product identification numbers and/or part numbers)

General Description: Components of multi-component radiography & fluoroscopy medical imaging system
Seismic enhancements incorporated into the test units and enhancements required to address anomalies observed during the tests shall be incorporated into the certified units. Motorized transverse table motion in both vertical and horizontal positions is excluded from Special Seismic Certification.

Mounting Description: See attachments

Applicant Information

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

Contact Person: Travis Soppe, SE

Mailing Address: 1199 Shoreline Drive, Suite 310, Boise, ID 83702

Telephone: (208) 342-5989 Ext. 115 Email: tsoppe@wegai.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: Travis Soppe Date: 8/01/2019

Title: President Company Name: W.E. Gundy & Associates, Inc.

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

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

Name: Travis Soppe, SE California License Number: S6115

Mailing Address: 1199 Shoreline Drive, Suite 310, Boise, ID 83702

Telephone: (208) 342-5989 Ext. 115 Email: tsoppe@wegai.com

Supports and Attachments Preapproval

☐ Supports and attachments are preapproved under OPM-
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)

☒ Supports and attachments are not preapproved

Certification Method

☒ Testing in accordance with: ☒ ICC-ES AC156

☐ Other (Please Specify):

Testing Laboratory

Company Name: Environmental Testing Laboratory, Inc.

Contact Name: Brady Richard

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

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

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = Multiple, see attachments

S_{DS} (Design spectral response acceleration at short period, g) = 2.00

a_p (In-structure equipment or component amplification factor) = Multiple, see attachments

R_p (Equipment or component response modification factor) = Multiple, see attachments

Ω_0 (System overstrength factor) = Multiple, see attachments

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies (Hz) = Multiple, see attachments

Overall dimensions and weight (or range thereof) = Multiple, see attachments

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) =

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

S_{D1} (Design spectral response acceleration at 1 second period, g) =

R (Response modification coefficient) =

Ω_0 (System overstrength factor) =

C_d (Deflection amplification factor) =

I_p (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component Natural Frequencies (Hz) =

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No

List of Attachments Supporting Special Seismic Certification

☒ Test Report(s) ☐ Drawings ☐ Calculations ☒ Manufacturer's Catalog

☒ Other(s) (Please Specify): Certified Product Line Matrix, UUT Summary Sheets, SE Certification Letter

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025

Signature: Timothy J. Piland Date: June 22, 2021

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to: S_{DS} (g) = 2.00 z/h = See Above

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: LUMINOS AGILE MAX "SEISMIC EDITION"

System Component[1)]	Siemens Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT[2]
		Width	Depth	Height			
Ceiling Suspension Ysio X-Ray Tubes							
3D Stand Ysio 3m track-synchronized	7042232	167	119	32 - 103	754	ceiling	UUT_x-1
3D Stand Ysio 4m track-synchronized	7042240	167	172	32 - 103	815	ceiling	interpolated
3D Stand Ysio 4m track-automated	7042224	167	172	32 - 103	888	ceiling	UUT_w-1
Ceiling Suspension Displays							
DCS-2 with TUI (2 monitors)	10052164	167	27.9 - 55.1	63 - 102	392	ceiling	UUT_y-5
DCS-2 without TUI (2 monitors)	10094053	167	27.9 - 55.1	50 - 89	400	ceiling	interpolated
DCS-1 with TUI (1 monitor)	10052163	168	27.9 - 55.1	63 - 102	419	ceiling	interpolated
DCS-1 without TUI (1 monitor)	10094052	168	27.9 - 55.1	50 - 89	290	ceiling	UUT_x-6
Patient Tables							
Luminos Agile MAX "Seismic Edition"	10762200	82.7	87.5	77.0	3970[3)]	floor	UUT_z-6A UUT_z-6B

[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 UUTs reference the following seismic test reports:
w = SQ35-1204-01-r3 x = SSC10-1010-02-r2 y = SQ35-1301-01-r1 z = SQ35-1415-02-r4

[3] Patient table weight does not include simulated patient weights of 400lb.

SEISMIC CERTIFICATION LIMITS

System Component	Code	S_{DS} (g)	z / h	I_P	a_P	R_P	Ω_0	F_P / W_P
Ceiling Suspension X-Ray Tubes	CBC 2016	2.0	1.0	1.50	2.5	2.5	2.0	3.60
Ceiling Suspension Displays	CBC 2016	2.0	1.0	1.50	2.5	2.5	2.0	3.60
Patient Tables	CBC 2016	2.0	1.0	1.50	1.0	1.5	1.5	2.40

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: LUMINOS AGILE MAX "SEISMIC EDITION"

System Component[1)]	Siemens Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT[2]
		Width	Depth	Height			
Wall Stands							
Tilting Bucky Wall Stand (right)	10681704	30.0	28.1	82.9	643	floor	UUT_z-2
Tilting Bucky Wall Stand (left)	10681705	30.0	28.1	82.9	643	floor	same
Imaging Systems							
Flurospot Compact (FLC)	10762482	13.4	26.0	21.7	86	floor	UUT_z-3
Generator Cabinets							
Polydoros F80-2	10096925	31.5	17.3	86.5	826	floor/wall	UUT_x-5
Wireless Access Points							
SCALANCE W700	10860657	7.9	3.1	6.2	5.5	wall	UUT_z-7

[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 UUTs reference the following seismic test reports:
w = SQ35-1204-01-r3 x = SSC10-1010-02-r2 y = SQ35-1301-01-r1 z = SQ35-1415-02-r4

SEISMIC CERTIFICATION LIMITS

System Component	Code	S_{DS} (g)	z / h	I_P	a_P	R_P	Ω_0	F_P / W_P
Wall Stands	CBC 2016	2.0	1.0	1.50	1.0	1.5	1.5	2.40
Imaging Systems	CBC 2016	2.0	1.0	1.50	1.0	2.5	2.0	1.44
Generator Cabinets	CBC 2016	2.0	1.0	1.50	2.5	6.0	2.0	1.50
Wireless Access Points	CBC 2016	2.0	1.0	1.50	1.0	2.5	2.0	1.44

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

Mounting Details: Rails and connecting parts of the component bolt with 2 -M10 bolts (20 bolts total) to unistrut grid spaced at 26.0" on center. The unistrut grid consisted of Unistrut P1001 rails anchored with 2 - 3/8" bolts at each intersection to the ceiling fixture framing spaced at 20" on center.

Manufacturer: Siemens Healthcare GmbH	**Test Location:** Environmental Testing Laboratory
Component: X-Ray Tube Stand w/ 3m Bridge	**Test Date:** April 2010
Model Number: 7042232	**Report Number:** SSC10-1010-2 Rev. 2
UUT Function: X-Ray stand, ceiling suspended, for use in radiography imaging, fully synchronized	
UUT Description: Component of the Luminos dRF System	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
754	167	119	103	N/A	N/A	N/A

The ceiling suspended tube stand moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with a height of 50" from mounting point to bottom of collimator.

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 2016 / 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_w-1	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Rails and connecting parts of the component bolt with 2 -M10 bolts (20 bolts total) to unistrut grid spaced at 27.0" on center. The unistrut grid consisted of Unistrut P1001 rails anchored with 2 - 3/8" bolts at each intersection to the ceiling fixture framing spaced at 32" on center.

Manufacturer: Siemens Healthcare GmbH	**Test Location:** Environmental Testing Laboratory
Component: X-Ray Tube Stand w/ 4m Bridge	**Test Date:** March / May 2012
Model Number: 7042224	**Report Number:** SQ35-1204-01 Rev. 3

UUT Function: X-Ray stand, ceiling suspended, for use in radiography imaging, fully automated

UUT Description: Component of the Luminos dRF System

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
888	167	172	32-103	N/A	N/A	N/A

The ceiling suspended tube stand moves laterally, rotates, and extends up and down to accommodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with a height of 50" from mounting point to bottom of collimator.

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 2016 / 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_y-5	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rails and connecting parts of the component bolt with 2 -M10 bolts (20 bolts total) to unistrut grid spaced at 26.0" on center. The unistrut grid consisted of Unistrut P1001 rails anchored with 2 - 3/8" bolts at each intersection to the ceiling fixture framing spaced at 20" on center.

Manufacturer: Siemens Healthcare GmbH / Mavig	**Test Location:** Environmental Testing Laboratory
Component: Ceiling Suspension Display (2 Monitors)	**Test Date:** January 2013
Model Number: 10502164	**Report Number:** SQ35-1301-01 Rev. 1
UUT Function: Ceiling suspended mount for dual monitors with touch user interface (TUI)	
UUT Description: Component of the Luminos Agile Max "Seismic Edition" system	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
393	167	27.9 - 55.1	63 - 102	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 2016 / 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_x-6	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Rails and connecting parts of the component bolt with 2 -M10 bolts (20 bolts total) to unistrut grid spaced at 26.0" on center. The unistrut grid consisted of Unistrut P1001 rails anchored with 2 - 3/8" bolts at each intersection to the ceiling fixture framing spaced at 20" on center.

Manufacturer: Siemens Healthcare GmbH / Mavig	**Test Location:** Environmental Testing Laboratory
Component: Ceiling Suspension Display (1 Monitor)	**Test Date:** April 2010
Model / Serial Number: 10094052	**Report Number:** SSC10-1010-2 Rev. 2
UUT Function: Ceiling suspended mount for single monitor without touch user interface (TUI)	
UUT Description: Component of the Luminos dRF System	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
290	168	27.9 - 55.1	50 - 89	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 2016 / 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_z-6A	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Rigid floor mounted with 12 - 3/4" grade 8 bolts.

Manufacturer: Siemens Healthcare GmbH	**Test Location:** Environmental Testing Laboratory
Component: Luminos Agile Max - Horizontal Positio	**Test Date:** July 2014
Model Number: 10762200	**Report Number:** SQ35-1415-02 Rev. 4

UUT Function: Motorized patient table and digital imaging device via fluoroscopy/radiography (Horizontal

UUT Description: Luminos Agile Max "Seismic Edition" system with patient table / detector in horizontal position. Pixium 3543 Ezh detector (10762402)

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
4,370	82.7	87.5	77	3.6	3.2	3.3

The patient table in the horizontal position moves vertically to accommodate different patients and procedures. The system was tested in the normal vertical operating position of 33" and with a total simulated patient weight of 400lbs.

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 2016 / 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 (excluding table top movement) before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test.

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

Mounting Details: Rigid floor mounted with 12 - 3/4" grade 8 bolts.

Manufacturer: Siemens Healthcare GmbH	**Test Location:** Environmental Testing Laboratory
Component: Luminos Agile Max - Vertical Position	**Test Date:** July 2014
Model Number: 10762200	**Report Number:** SQ35-1415-02 Rev. 4

UUT Function: Motorized patient table and digital imaging device via fluoroscopy/radiography (Vertical)

UUT Description: Luminos Agile Max "Seismic Edition" system with patient table / detector in vertical position. Pixium 3543 Ezh detector (10762402)

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
3,970	82.7	87.5	77	4.6	3.5	3.9

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 2016 / 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_z-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 Testing Laboratory
Component: Tilting Bucky Wall Stand	**Test Date:** July 2014
Model Number: 10681704	**Report Number:** SQ35-1415-02 Rev. 4

UUT Function: Radiographic wall stand for X-ray exposures

UUT Description: Component of the Luminos Agile Max "Seismic Edition" system with Pixium 3543 Ezh detector (10762402)

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
643	30	28.1	82.9	11.7	9.1	9.1

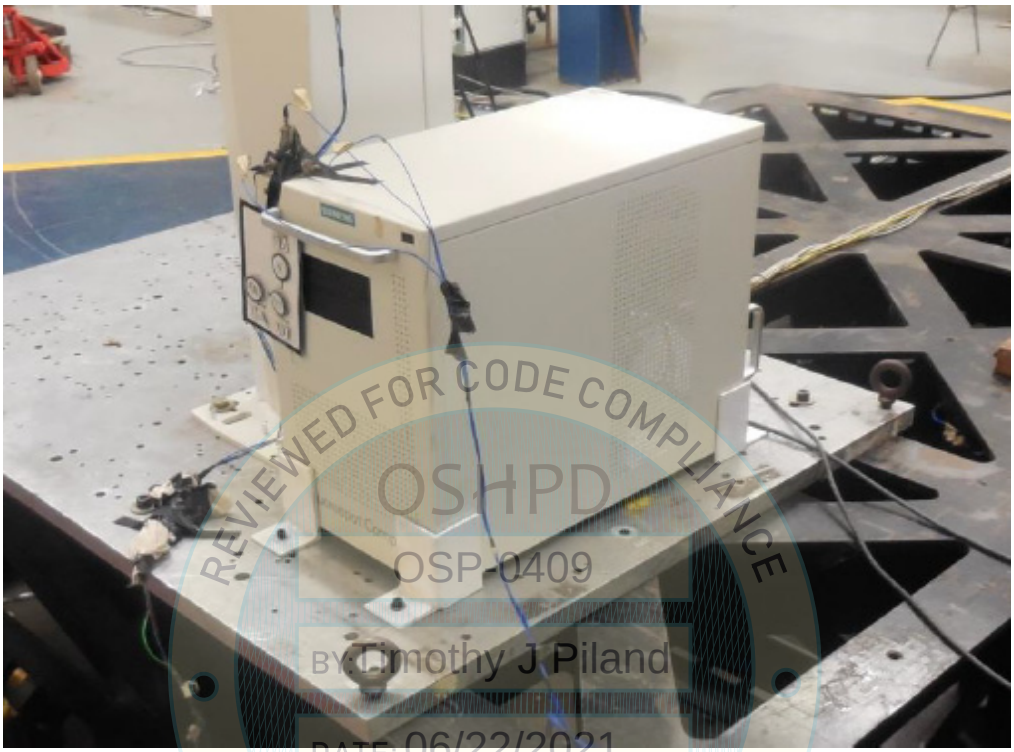
SEISMIC TEST PARAMETERS

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 2016 / 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_z-3	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

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



Manufacturer: Siemens Healthcare GmbH	**Test Location:** Environmental Testing Laboratory
Component: Fluorospot Compact (FLC)	**Test Date:** July 2014
Model Number: 10762482	**Report Number:** SQ35-1415-02 Rev. 4
UUT Function: Digital imaging solution for fluoroscopy and radiography	
UUT Description: Component of the Luminos Agile Max "Seismic Edition" system	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
86	13.4	26	21.7	>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 2016 / 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_x-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 4 - 1/4" grade 8 bolts and rigid floor mounted with 2 - 3/8" 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: Polydoros F80 Generator Cabinet	**Test Date:** April 2010
Model Number: 10681704 / 7738680	**Report Number:** SSC10-1010-2 Rev. 2
UUT Function: Generator for radiography and fluoroscopy systems	
UUT Description: Component of the Luminos dRF System	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
826	31.5	17.3	86.5	10.1	11.8	31.0

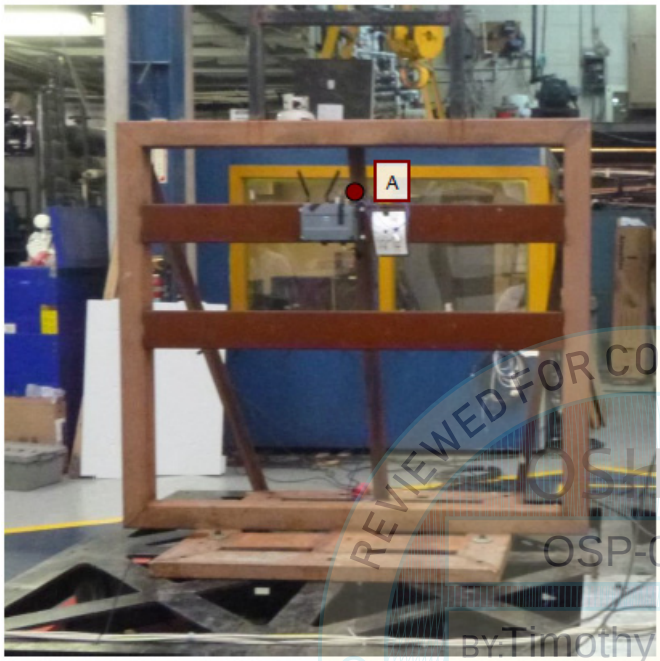
SEISMIC TEST PARAMETERS

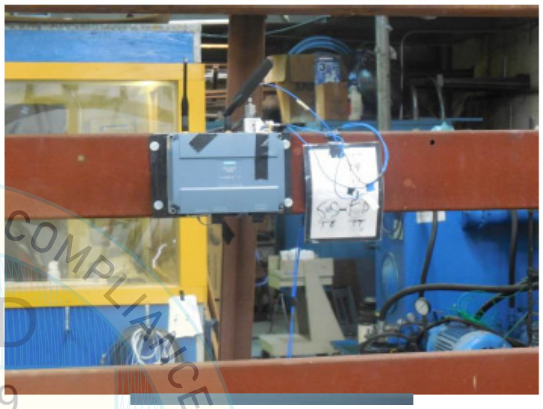
Building Code / Test Criteria	S_{DS} (g)	z / h	I_P	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)
CBC 2016 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.34	0.54

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_z-7	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid wall mounted with 4 - #12 sheet metal screws and washers.





Manufacturer: Siemens Healthcare GmbH	**Test Location:** Environmental Testing Laboratory
Component: SCALANCE W700 WiFi Access Point	**Test Date:** July 2014
Model Number: 10860657	**Report Number:** SQ35-1415-02 Rev. 4
UUT Function: Wireless waypoint for system	
UUT Description: Component of the Luminos Agile Max "Seismic Edition" system	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
5.5	7.9	3.1	6.2	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 2016 / 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.