APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY	
APPLICATION #:	OSP – 0614

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Philips Medical Systems DMC GmbH

Manufacturer's Technical Representative: Ming Xiao

Mailing Address: Roentgenstrasse 24, 22335 Hamburg

Telephone: +49 40 349712306 Email: Ming.Xiao@Philips.com

Product Information

Product Name: DigitalDiagnost

Product Type: Radiography and Fluoroscopy Medical Imaging System

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

General Description: Multiple component digital radiography and fluoroscopy medical diagnostic 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.

Mounting Description: Rigid floor mounted, rigid wall mounted, ceiling mounted, and combined floor / wall mounted, see attachment.

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) 342-5898 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: 06-13-2019

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) 342-5898 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: IABG mbH

Contact Name: Dr. Steffen Roedling

Mailing Address: Einsteinstrasse 20, Ottobrunn, Germany D-85521

Telephone: +49 (0) 89 / 6088-2052 Email: roedling@iabg.de

Seismic Parameters

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

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

S_{DS} (Design spectral response acceleration at short period, g) = 2.00, z/h = 1.0 and 2.50, z/h = 0

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

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

Ω_0 (System overstrength factor) = Multiple, see attachment

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1, S_{DS} = 2.00 and 0 at S_{DS} = 2.50

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

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

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 System Matrix, UUT Summary Sheets, Subcomponent Certification Letter

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

Signature: _____ Date: February 18, 2021

Print Name: Timothy J. Piland Title: SSE

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

Condition of Approval (if applicable):

Table 1	PHILIPS MEDICAL SYSTEMS DMC GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

System: DigitalDiagnost Radiography System | **Manufacturer:** Philips Medical Systems DMC GmbH

System Component[1]	Philips Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT[4]
		Width	Length	Height			
Ceiling Suspension CSM Product Family							
Ceiling Suspension CSM3 (Long) Version: Comfort Move	9890-010-87703	31.0	159.0	45.5-110.7	577	ceiling	UUT_w-1
Ceiling Suspension CSM3 (Short) Version: Comfort Move	9890-010-87703	31.0	92.8	45.5-110.7	532	ceiling	UUT_w-2
Digital Table TH Product Family							
Table TH2 Wifi Detector	9848-600-02222	33.5	94.5	20.8-36.4	612[2]	floor	UUT_y-1
Table TH2 Fixed Detector	9848-600-02222	33.5	94.5	20.8-36.4	615[2]	floor	UUT_y-2
Table TH2 Wifi Detector	9848-600-02222	33.5	94.5	20.8-36.4	603[2]	floor	UUT_w-3
Vertical Stand VS Product Family							
Vertical Stand 2 VS2 Non-Tilting - Fixed Detector	9897-010-01411	28.3	60.6	82.7	326	floor/wall	UUT_x-2A
Vertical Stand 2 VS2 Non-Tilting - Wifi Detector	9897-010-01411	28.3	60.6	82.7	326	floor/wall	UUT_x-2B
Vertical Stand 2 VS2 Tilting - Fixed Detector	9897-010-01411	23.5	35.5	81.9	562	floor/wall	interpolated
Vertical Stand 2 VS2 Tilting - Wifi Detector	9897-010-01411	23.5	35.5	81.9	562	floor/wall	UUT_z-8

[1] All components are manufactured by Philips Medical Systems DMC GmbH unless noted in ( ). The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units.

[2] Table TH2 weights listed do not include 560lb UUT_y-1/2 and 660lb UUT_w-3 simulated patient weight used during the seismic tests.

[4] The units were tested at different times and the subscripts on the UUT's reference the following seismic certification test reports:
w = TAB3-PB-19-020-V1 x = TAF4-PB-18-082-V1 y = SQ13-1703-01 z = SQ13-1701-01

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 CSM	CBC 2016	2.0	1.0	1.50	2.5	2.5	2.0	3.60
		2.5	0					1.50
Digital Table TH	CBC 2016	2.0	1.0	1.50	1.0	1.5	1.5	2.40
		2.5	0					1.13
Vertical Stand VS	CBC 2016	2.0	1.0	1.50	1.0	1.5	1.5	2.40
		2.5	0					1.13

Table 1	PHILIPS MEDICAL SYSTEMS DMC GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

System: DigitalDiagnost Radiography System | **Manufacturer:** Philips Medical Systems DMC GmbH

System Component[1]	Philips Part Number	Dimensions (in)			Weight (lb)	Mounting	UUT[4]
		Width	Length	Height			
Power Distribution							
M-Cabinet CXA	9890-010-88393	19.2	27.6	39.0	236	floor	UUT_y-4
User Interface and Miscelaneous							
AWS-2X PC (ADVANTECH)	4512-201-11781	8.5	10.9	17.6	33	floor	UUT_w-4
WIFI Access Point (ARUBA)	4512 201 12191	5.9	5.9	2.8	1	wall	UUT_x-4
WIFI Access Point (ARUBA)	4512 201 1219a[3] 4512 201 1220a[3]	5.9	5.9	2.8	1	wall	same

[1] All components are manufactured by Philips Medical Systems DMC GmbH unless noted in ( ). The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units.

[3] The "a" designation indicates differences in color and software for the identified access point configuration.

[4] The units were tested at different times and the subscripts on the UUT's reference the following seismic certification test reports:
w = TAB3-PB-19-020-V1 x = TAF4-PB-18-082-V1 y = SQ13-1703-01 z = SQ13-1701-01

SEISMIC CERTIFICATION LIMITS

System Component	Code	S_{DS} (g)	z / h	I_P	a_P	R_P	Ω_0	F_P / W_P
M-Cabinet CXA	CBC 2016	2.0	1.0	1.50	2.5	6.0	2.0	1.50
		2.5	0					1.13
AWS-2X PC	CBC 2016	2.0	1.0	1.50	1.0	2.5	2.0	1.44
		2.5	0					1.13
WIFI Access Point	CBC 2016	2.0	1.0	1.50	1.0	2.5	2.0	1.44
		2.5	0					1.13

Table 2	PHILIPS MEDICAL SYSTEMS DMC GmbH SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENTS	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

System: DigitalDiagnost Radiography System	**Manufacturer:** Philips Medical Systems DMC GmbH

Subcomponent	Philips Part Number[1]	Dimensions (in)			Weight (lb)	UUT[2]
		Width	Length	Height		
Vertical Stand VS Subcomponent Matrix						
Portable Detector Skyplate Small (pixium 2430 EZ)	9897 010 00843	9.5	1.2	1.0	4	UUT_x-2B
	9897 010 0084a	9.5	1.2	1.0	4	interpolated
	4598 013 7483a	9.5	1.2	1.0	4	interpolated
	4512 134 7330a	9.5	1.2	1.0	4	interpolated
Portable Detector Skyplate Large (pixium 3543 EZ)	4598 012 4298a	13.8	16.9	1.0	7	interpolated
	4512 134 7214a	13.8	16.9	1.0	7	interpolated
	9897 010 0083a	13.8	16.9	1.0	7	interpolated
	9897 010 0268a	13.8	16.9	1.0	7	interpolated
	9897 010 02681	13.8	16.9	1.0	7	UUT_z-8
Fixed Detector (pixium 4343RCE)	4598 009 40141	20.0	19.4	2.0	44	UUT_x-2A
	4598 009 4014a	20.0	19.4	2.0	44	same
	4598 009 4015a	20.0	19.4	2.0	44	same
Digital Table TH / ProxiDiagnost Stand Subcomponent Matrix						
Portable Detector Skyplate Large (pixium 3543 EZ)	4598-012-42982	13.8	16.9	1.0	7	UUT_w-3
	4598-012-4298a	13.8	16.9	1.0	7	interpolated
	4598-134-7214a	13.8	16.9	1.0	7	interpolated
	9897 010 0268a	13.8	16.9	1.0	7	interpolated
	9897 010 02681	13.8	16.9	1.0	7	UUT_y-1
Fixed Detector (pixium 4343RCE)	4598-009-40141	20.0	19.4	2.0	44	UUT_y-2
	4598-009-4014a	20.0	19.4	2.0	44	same
	4598-009-4015a	20.0	19.4	2.0	44	same

[1] "a" designation in Philips part number indicates differences in color, software, ect. for the identified subcomponent.

[2] The units were tested at different times and the subscripts on the UUT's reference the following seismic certification test reports:
w = TAB3-PB-19-020-V1 x = TAF4-PB-18-082-V1 y = SQ13-1703-01 z = SQ13-1701-01

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 itself (detailed in Phillips 4512 983 02641) bolt to unistrut grid spaced at 25.6" on center. The unistrut grid consisted of MURPO#150969 MPR-41/82/2.0 H-Profiles (Unistrut P1001 equivalent) anchored with 2 - M10 bolts with clamping claws (MURPO 157219) at each intersection to the ceiling fixture framing spaced at 23.6" on center.

Manufacturer: Philips Medical Systems DMC GmbH

Component: Ceiling Suspension CSM3 (Long) Version: Comfort Move

Model / Serial Number: 9890-010-87703 / 19 000005

UUT Function: Digital system for making X-ray exposures of the body.

UUT Description: DigitalDiagnost ceiling suspension system - long rail configuration

Test Location: IABG mbH, Germany	**Test Date:** February 2019	**Report:** TAB3-PB-19-020-V1

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
577	31.0"	159.0"	45.5" - 110.7"	NA	NA	NA

The CS system moves laterally, rotates, and extends up and down to accomodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with an extension of 26.4" making the tested height = 71.9".

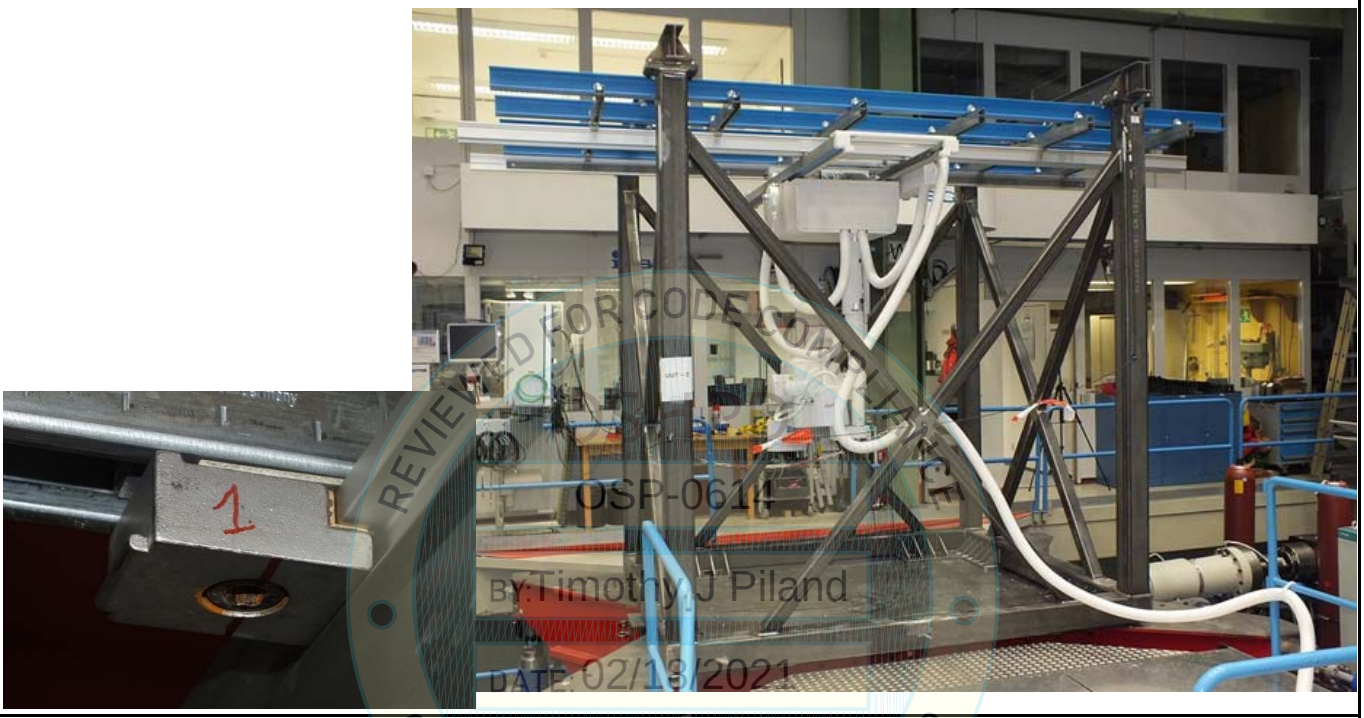
SEISMIC TEST PARAMETERS

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

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

UUT_w-2	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rails and connecting parts of the component itself (detailed in Phillips 4512 983 02641) bolt to unistrut grid spaced at 25.6" on center. The unistrut grid consisted of MURPO#150969 MPR-41/82/2.0 H-Profiles (Unistrut P1001 equivalent) anchored with 2 - M10 bolts with clamping claws (MURPO 157219) at each intersection to the ceiling fixture framing spaced at 23.6" on center.



Manufacturer: Philips Medical Systems DMC GmbH

Component: Ceiling Suspension CSM3 (Short) Version: Comfort Move

Model / Serial Number: 9890-010-87703 / 19 000001

UUT Function: Digital system for making X-ray exposures of the body.

UUT Description: DigitalDiagnost ceiling suspension system - short rail configuration

Test Location: IABG mbH, Germany	**Test Date:** February 2019	**Report:** TAB3-PB-19-020-V1

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
532	31.0"	92.8"	45.5" - 110.7"	NA	NA	NA

The CS system moves laterally, rotates, and extends up and down to accomodate different patients and procedures. The system was tested in the normal operating position with the system horizontally centered, no rotation, and with an extension of 26.4" making the tested height = 71.9".

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

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

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

Mounting Details: Rigid floor mounted with 4 - 1/2" grade 8 bolts torqued to 110ft-lbs with 2 x 1 x 0.625" plate washers.

Manufacturer: Philips Medical Systems DMC GmbH

Component: Table TH2 - Wifi Detector	**Model / Serial Number:** 9848-600-02222 / 19020008

UUT Function: Motorized patient table and dectector system used for X-Ray imaging.

UUT Description: DigitalDiagnost patient table with installed dectector: Wifi Pixium 3543 EZ - 4598-012-42982

Test Location: IABG mbH, Germany	**Test Date:** February 2019	**Report:** TAB3-PB-19-020-V1

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,263	33.5"	94.5"	20.8 - 36.4"	4.0	3.0	7.3

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 29.3", and a total simulated patient weight of 660lbs.

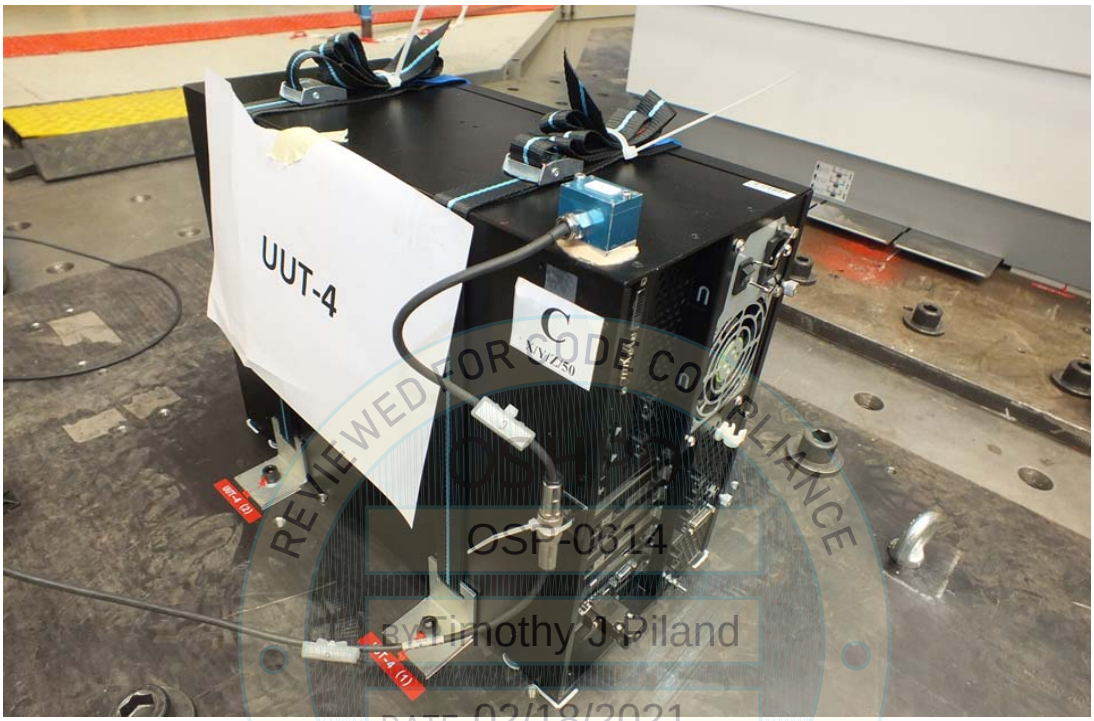
SEISMIC TEST PARAMETERS

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		
	2.50	0.0	1.5			1.67	0.67

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

UUT_w-4	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Rigid floor mounting using Phillips provided seismci restraint kit 4512-134-74741. Seismic restraint kit include a hand tightend cam buckle strap (450lb WLL) looped thru angle brackets on each side of the unit. The angle brackets are attached to the table with individual 3/8" grade 8 bolts.



Manufacturer: ADVANTECH

Component: AWS-2X PC User Interface	**Model / Serial Number:** 4512-201-11781 / KSE0149757	
UUT Function: Computational processing for image system.		
UUT Description: DigitalDiagnost user interface PC		
Test Location: IABG mbH, Germany	**Test Date:** February 2019	**Report:** TAB3-PB-19-020-V1

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
33	8.5"	10.9"	17.6"	> 33	28.1	>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		
	2.50	0.0	1.5			1.67	0.67

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

UUT_x-2A	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Floor/wall mount with 2 - M10 grade 8.8 bolts / washers torqued at 36ft-lb and 1 - M12 grade 8.8 bolt / washer torqued at 62ft-lb to the floor and 2 - M10 grade 10.9 bolts / washers torqued at 53ft-lb to the wall fixture. Electrical box mounted to wall fixture with 4 - M6 grade 8.8 bolts / washer torqued to 10ft-lb.

Manufacturer: Philips Medical Systems DMC GmbH

Component: Vertical Stand VS2 - Fixed Detector	**Model / Serial Number:** 9897 010 01411

UUT Function: Vertical X-Ray imaging system

UUT Description: Component of DigitalDiagnost Radiography and Fluoroscopy System with fixed dectector (Pixium TX4343RCE - 4598 009 40141) and electrical box (4598-012-06871).

Test Location: IABG mbH, Germany	**Test Date:** February 2018	**Report:** TAF4-PB-18-082-V1

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
326	28.3"	60.6"	82.7"	> 33	28.9	> 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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

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

UUT_x-2B	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Mounting Details: Floor/wall mount with 2 - M10 grade 8.8 bolts / washers torqued at 36ft-lb and 1 - M12 grade 8.8 bolt / washer torqued at 62ft-lb to the floor and 2 - M10 grade 10.9 bolts / washers torqued at 53ft-lb to the wall fixture. Electrical box mounted to wall fixture with 4 - M6 grade 8.8 bolts / washer torqued to 10ft-lb.

Manufacturer: Philips Medical Systems DMC GmbH

Component: Vertical Stand VS2 - Wifi Detector | **Model / Serial Number:** 9897 010 01411

UUT Function: Vertical X-Ray imaging system

UUT Description: Component of DigitalDiagnost Radiography and Fluoroscopy System with wifi dectector (Pixium 2430EZ - 9897 010 00843) and electrical box (4598-012-06871).

Test Location: IABG mbH, Germany	**Test Date:** February 2018	**Report:** TAF4-PB-18-082-V1

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
326	28.3"	60.6"	82.7"	> 33	29.0	> 33

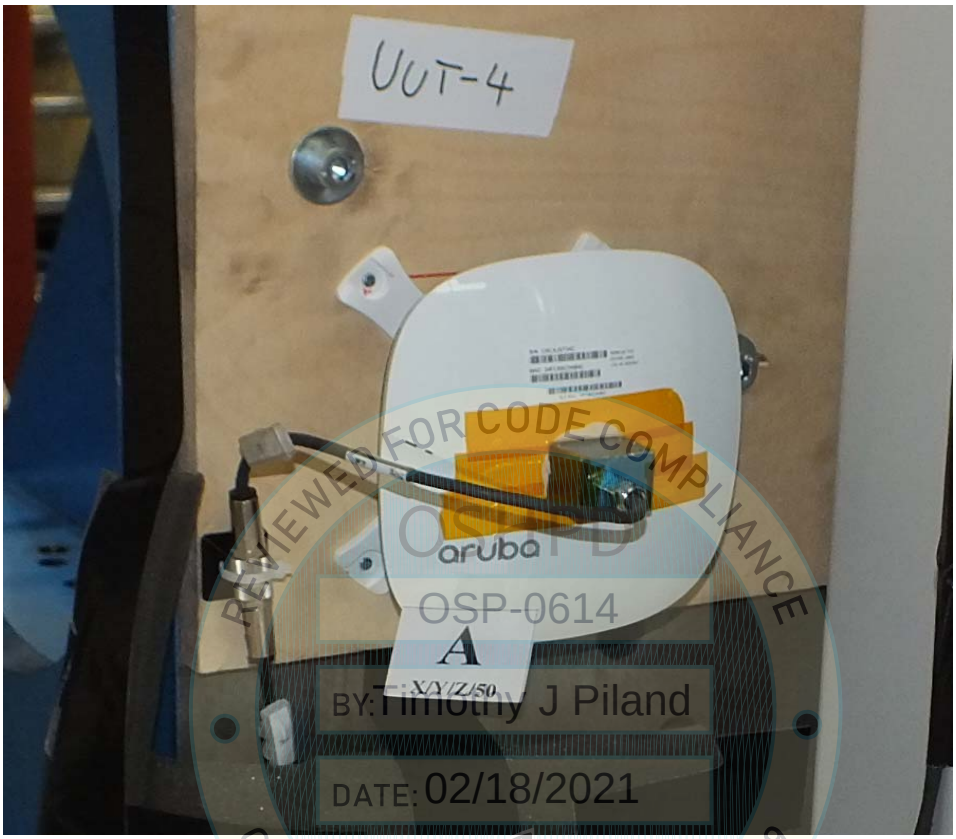
SEISMIC TEST PARAMETERS

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		
	2.50	0.0	1.5			1.67	0.67

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

UUT_x-4	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Wall mount with 4 - size 3 wood screws.



Manufacturer: ARUBA

Component: WIFI Access Point | **Model / Serial Number:** 4512 201 12191

UUT Function: WIFI Module

UUT Description: Component of ProxiDiagnost Radiography and Fluoroscopy System

Test Location: IABG mbH, Germany | **Test Date:** February 2018 | **Report:** TAF4-PB-18-082-V1

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
1	5.9"	5.9"	2.8"	NA	NA	NA

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		
	2.50	0.0	1.5			1.67	0.67

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

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

Mounting Details: Rigid floor mounted with 4 - 1/2" grade 8 bolts torqued at 40ft-lb with 3.5" x 1.5" x 1/2" plate washers.

Manufacturer: Philips Medical Systems DMC GmbH

Component: Table TH2 - Wifi Detector	**Model / Serial Number:** 9848-600-02222 / 16000193

UUT Function: Motorized patient table and dectector system used for X-Ray imaging.

UUT Description: DigitalDiagnost patient table with installed dectector: Wifi Pixium 3543 EZ - 9897-010-02681.

Test Location: Environmental Testing Laboratory, Dallas, Texas

Test Date: January 2017	**Report:** SQ13-1703-01

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,172	33.5"	94.5"	20.8 - 36.4"	3.7	20.4	7.2

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 30", and a total simulated patient weight of 560lbs.

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		
	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained fuctional 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 4 - 1/2" grade 8 bolts torqued at 40ft-lb with 3.5" x 1.5" x 1/2" plate washers.

Manufacturer: Philips Medical Systems DMC GmbH

Component: Table TH2 - Fixed Detector	**Model / Serial Number:** 9848-600-02222 / 16020429

UUT Function: Motorized patient table and dectector system used for X-Ray imaging.

UUT Description: DigitalDiagnost patient table with fixed dectector: Pixium 4343RCE 4598-009-40141

Test Location: Environmental Testing Laboratory, Dallas, Texas

Test Date: January 2017	**Report:** SQ13-1703-01

UUT PROPERTIES

Weight (lb) with Patient	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
1,175	33.5"	94.5"	20.8 - 36.4"	3.2	12	7.2

The patient table moves laterally both ways and vertically to accommodate different patients and procedures. The system was tested in the normal operating position with the table horizontally centered, a table top height of 30", and a total simulated patient weight of 560lbs.

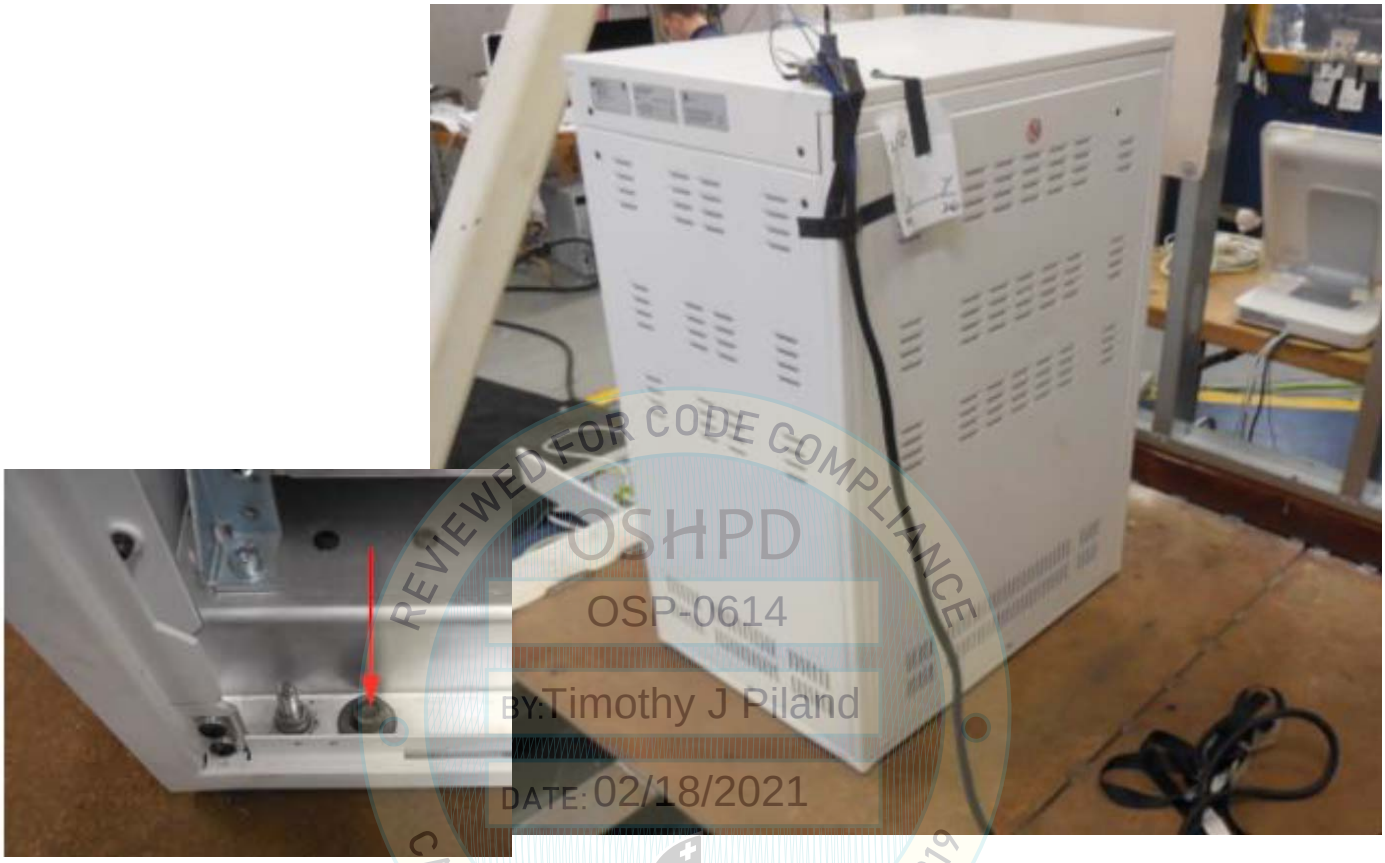
SEISMIC TEST PARAMETERS

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		
	2.50	0.0	1.5			1.67	0.67

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

UUT_y-4	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

Mounting Details: Rigid floor mounted with 4 - 3/8" A574 bolts with washers



Manufacturer: Philips Medical Systems DMC GmbH

Component: M-Cabinet CXA	**Model / Serial Number:** 9890-010-88393 / 16230001
UUT Function: X-Ray generator for Radiography System	
UUT Description: Component of DigitalDiagnost Radiography and Fluoroscopy System	
Test Location: Environmental Testing Laboratory, Dallas, Texas	
Test Date: January 2017	**Report:** SQ13-1703-01

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
236	19.2"	27.6"	39"	10.8	9.0	23.2

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

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

UUT_z-8	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. Gundy & Associates, Inc. Structural & Earthquake Engineering

Note: Modifications required for unit to pass seismic test. All modifications incorporated in Phillips seismic kit 4512-201-12241.

Mounting Details: Rigid floor / wall mounted with 3 - 1/2" grade 5 bolts torqued at 40ft-lbs to the floor and 4 - 3/8" grade 2 bolts torqued at 17ft-lbs to 16 ga. steel backing plate on the wall

Manufacturer: Philips Medical Systems DMC GmbH

Component: Vertical Stand 2 VS2 - Wifi Detector | **Model / Serial Number:** 9897-010-01411 / 16000012

UUT Function: Vertical X-Ray imaging system.

UUT Description: Component of DigitalDiagnost Radiography and Fluoroscopy System with wifi dectector (Pixium 3543EZ - 9897 010 02681) and electrical box (4598-012-06641).

Test Location: Environmental Testing Laboratory, Dallas, Texas

Test Date: January 2017 | **Report:** SQ13-1701-01

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
562	23.5"	35.5"	81.9"	10.2	4.2	6.1

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 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40		
	2.50	0.0	1.5			1.67	0.67

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