



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY
APPLICATION #: OSP - 0280 - 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: [] New [X] Renewal

Manufacturer Information

Manufacturer: SIEMENS HEALTHCARE

Manufacturer's Technical Representative: Carri Catalano

Mailing Address: 51 Valley Stream Parkway, Malvern, PA 19355

Telephone: (888) 826-9702 Email: On File

Product Information

Product Name: YSIO Digital X-Ray system & Multix Fusion X-ray system

Product Type: Radiography medical imaging

Product Model Number: See Attachment 1, Tables 1 & 2
(List all unique product identification numbers and/or part numbers)

General Description: Multi-component digital & analog radiographic medical imaging systems. Seismic enhancements made to the test units and modifications required to address the anomalies observed during the tests shall be incorporated into the production units.

Mounting Description: See Attachment 1, Tables 1 & 2

Applicant Information

Applicant Company Name: EASE Co.

Contact Person: Jonathan Roberson, S.E.

Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Telephone: (909) 606-7622 Email: j.roberson@easeco.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

Signature of Applicant: [Handwritten Signature] Date: May 27, 2015

Title: Principal Engineer Company Name: EASE Co.

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





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

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

Company Name: EASE Co.

Name: Jonathan Roberson, S.E. California License Number: S4197

Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Telephone: (909) 606-7622 Email: j.roberson@easeco.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

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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 1, Tables 1 & 2

S_{DS} (Design spectral response acceleration at short period, g) = See Attachment 1, Tables 1 & 2

a_p (In-structure equipment or component amplification factor) = See Attachment 1, Tables 1 & 2

R_p (Equipment or component response modification factor) = See Attachment 1, Tables 1 & 2

Ω_0 (System overstrength factor) = See Attachment 1, Tables 1 & 2

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = See Attachment 1, Tables 1 & 2

Equipment or Component Natural Frequencies (Hz) = See Attachment 2

Overall dimensions and weight (or range thereof) = See Attachment 1, Tables 1 & 2

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, 2010: Yes No

List of Attachments Supporting Special Seismic Certification

Test Report(s) Drawings Calculations Manufacturer's Catalog

Other(s) (Please Specify): Attachments 1 & 2

OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2019

Signature:  Date: July 29, 2015

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): _____



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1:

System Manufacturer		SIEMENS HEALTHCARE													
System		YSIO & YSIO MAX DIGITAL RADIOGRAPGHY SYSTEM													
COMPONENT	PART NO.	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _p /W _p	S _{DS}	z/h	a _p	R _p	Ω ₀		
		W	D	H											
PATIENT TABLES															
Ysio Patient Table including:	10281013	94 7/8	31 ½	20.2 - 37.5	1013 ^[2]	Floor	UUT-2	2.40 1.17	2.0 2.6	1 0	1	1 ½	1 ½		
wi-D Digital Detector Trixiell Pixium FE 3542 pR	62155967														
Ysio MAX Patient Table including:	10273210	31.5	94.9	20.3 - 37.6	835 ^[3]	Floor	UUT-B1	2.40	2.0	1	1	1 ½	1 ½		
MAX wi-D wireless mobile digital detector Trixiell Pixium 3543EZh	10762402														
WALL STANDS ^[4]															
Tilting Bucky Wall Stand w/ wi-D Digital Detector Trixiell Pixium FE 3542 pR	10150519	30	26 7/8	82.5	661	Floor	UUT-4	2.40 1.17	2.0 2.6	1 0	1	1 ½	1 ½		
	62155967														
Tilting Bucky Wall Stand w/ wi-D Digital Detector Trixiell Pixium FE 3542 pR	10150520	30	26 7/8	82.5	661	Floor	SAME	2.40 1.17	2.0 2.6	1 0	1	1 ½	1 ½		
	62155967														
Tilting Bucky Wall Stand w/ wi-D Digital Detector Trixiell Pixium FE 3542 pR	10656442	30	26 7/8	82.5	661	Floor	SAME	2.40 1.17	2.0 2.6	1 0	1	1 ½	1 ½		
	62155967														
Tilting Bucky Wall Stand w/ wi-D Digital Detector Trixiell Pixium FE 3542 pR	10656443	30	26 7/8	82.5	661	Floor	SAME	2.40 1.17	2.0 2.6	1 0	1	1 ½	1 ½		
	62155967														
Tilting Bucky Wall Stand (Right-sided Tray) including: Trixiell MAX wi-D Portable Detector	10681704	30	28.1	82.9	643	Floor	UUT-C1	2.40	2.0	1	1	1 ½	1 ½		
	10762402	18.3	15.1	0.75	7										
Tilting Bucky Wall Stand (Left-sided Tray) w/ Trixiell MAX wi-D Portable Detector	10681705	30	28.1	82.9	643	Floor	SAME ^[5]	2.40	2.0	1	1	1 ½	1 ½		
	10762402	18.3	15.1	0.75	7										
Tilting Bucky Wall Stand w/ Trixiell MAX Static fixed plate detector	10681702	30.0	48.9	85.0	528	Floor	UUT-B2	2.40	2.0	1	1	1 ½	1 ½		
	10762401														
X-RAY TUBE SUSPENSIONS															
3D Stand Ysio Fully-motorized w/ 4m Transverse Track, Fully Automated	7042224	167	172	32 / 103	890	Ceiling	UUT-1	3.60 1.56	2.0 2.6	1 0	2 ½	2 ½	2 ½		
3D Stand Ysio Fully-motorized w/ 3 m Transverse Track, Fully Automated	7042216	167	119	32 / 103	846	Ceiling	INT	3.60	2.0	1	2 ½	2 ½	2 ½		
3D Stand Ysio Semi-motorized w/	7042240	167	172	32 / 103	815	Ceiling	INT	3.60	2.0	1	2 ½	2 ½	2 ½		

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1: (CONTINUED)

System Manufacturer		SIEMENS HEALTHCARE													
System		YSIO & YSIO MAX DIGITAL RADIOGRAPGHY SYSTEM													
COMPONENT	PART NO.	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS [1]	F _p /W _p	S _{DS}	z/h	a _p	R _p	Ω ₀		
		W	D	H											
4m Transverse Track, Fully Synchronized															
3D Stand Ysio Semi-motorized w/ 3m Transverse Track, Fully Synchronized	7042232	167	119	32 / 103	770	Ceiling	UUT-8	3.60	2.0	1	2 ½	2 ½	2 ½		
IMAGING SYSTEM															
Fluorospot Compact	10281016	13.4	27	21.8	116	Floor	UUT-6	1.44 1.17	2.0 2.6	1 0	1	2 ½	2 ½		
Fluorospot Compact	10762484	13.4	25.9	21.8	85	Floor	UUT-B3	1.44	2.0	1	1	2 ½	2 ½		
X-RAY GENERATOR CABINETS															
Polydoros R80/R65 Generator Cabinet	10096980	31	17	86.7	883	Wall/Floor	UUT-5	1.44 1.17	2.0 2.6	1 0	1	2 ½	2 ½		
Polydoros 80kW Generator Cabinet	10096950	31.5	17.1	86.7	835	Wall/Floor	UUT-B6	1.44	2.0	1	1	2 ½	2 ½		
MISC															
Docking station including:	10281025														
wi-D Digital Detector Trixell Pixium FE 3542 pR	62155967	20.5	8	18 max	33	Wall	UUT-3	2.40 1.17	2.0 2.6	1 0	1	1 ½	1 ½		
Wireless Access Point	Scalance W700	7.9	2.8	6.2	5.5	Wall	UUT-B4	2.40	2.0	1	1	1 ½	1 ½		
<i>Mount</i>	<p><u>Floor (Rigid Base) Mount:</u> free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p><u>Wall/Floor Mounted:</u> unit bears on, and is anchored directly to the supporting floor. In addition, lateral restraint anchoring the unit to an adjacent wall or other supporting structure is provided along the height of the equipment.</p> <p><u>Wall Mounted:</u> unit is fully supported- both vertically and laterally – by a building wall or partition.</p> <p><u>Ceiling (Ceiling Suspended):</u> unit is anchored to and suspended from a framing system at or slightly above the ceiling line of the room.</p>														
<i>Notes</i>	<ol style="list-style-type: none"> BASIS: <ul style="list-style-type: none"> UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program. SAME: Model is physically, mechanically & electrically the same as test specimen. Difference is limited to model number, color, software and/or Siemens manufacturing location. INT (Interpolate/Extrapolate): indicates a model that was not specifically tested, and by which seismic certification is established through evaluation of testing of other, similar models in the product line Weight of Patient Table Stand does not include 662 lb. patient load present during testing. Weight of Patient Table Stand does not include 440 lb. patient load present during testing. All wall stands addressed herein exclude the optional Spacer Box. Model is mirror image of tested model, with bucky tray access on opposite side of unit. 														

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2:

System Manufacturer		SIEMENS HEALTHCARE													
System		MULTIX FUSION DIGITAL RADIOGRAPGHY SYSTEM													
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	S _{DS}	z/h	a _P	R _P	Ω ₀		
		W	D	H											
PATIENT TABLES															
Patient Table ^[3] including:	10273204	31.50	94.84	20.3- 37.6	886 ^[2]	Floor	UUT-A9	2.40 1.17	2.0 2.6	1 0	1	1 ½	1 ½		
Varian Medical Systems Wired Portable Digital Detector	10847569	18 1/8	5/8	15 1/8	7.5										
WALL STANDS ^[5]															
Top Tilting Wall Stand ^[3] including:	10681670	30	28.1 / 36.8	82.9	490	Floor	UUT-A8	2.40 1.17	2.0 2.6	1 0	1	1 ½	1 ½		
Varian Medical Systems Wired Portable Digital Detector	10847569	18 1/8	5/8	15 1/8	7.5										
Pro Non-Tilting Wall Stand ^[3] including:	10681650	30	16.6	82.9	452	Floor	UUT-A7	2.40 1.17	2.0 2.6	1 0	1	1 ½	1 ½		
Varian Medical Systems Wired Portable Digital Detector	10847569	18 1/8	5/8	15 1/8	7.5										
X-RAY TUBE SUSPENSION															
3D Stand Ysio Fully-motorized w/ 4m Transverse Track, Fully Automated	7042224	167	172	32 / 103	890	Ceiling	UUT-1	3.60 1.56	2.0 2.6	1 0	2 ½	2 ½	2 ½		
3D V Stand ACSS T semi-motorized w/ 4m Transverse Track, Fully Synchronized	7042174	167	119	32 / 103	815	Ceiling	INT								
3D V Stand ACSS T semi-motorized w/ 3m Transverse Track, Fully Synchronized	7042166	167	119	32 / 103	770 ^[4]	Ceiling	UUT-A6								
IMAGING SYSTEM															
FLUOROSPOT Compact	10569621	17 5/8	27 5/8	22 7/8	157.5	Floor	UUT-A3	1.44 1.17	2.0 2.6	1 0	1	2 ½	2 ½		
X-RAY GENERATOR															
Polydoros RF RAD 80 / 65 / 55	10606040	22.5	50	21.4	424	Floor	UUT-A1	1.44 1.17	2.0 2.6	1 0	1	2 ½	2 ½		
MISC															
Power Box (for Varian Digital Detector)	10847706	12 3/8	2 1/4	11	10	Wall	UUT-A2	2.40 1.17	2.0 2.6	1 0	1	1 ½	1 ½		
Mount	<p><u>Floor (Rigid Base) Mount:</u> free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p><u>Wall/Floor Mounted:</u> unit bears on, and is anchored directly to the supporting floor. In addition, lateral restraint anchoring the unit to an adjacent wall or other supporting structure is provided along the height of the equipment.</p> <p><u>Wall Mounted:</u> unit is fully supported- both vertically and laterally – by a building wall or partition.</p> <p><u>Ceiling (Ceiling Suspended):</u> unit is anchored to and suspended from a framing system at or slightly above the ceiling line of the room.</p>														

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2: (CONTINUED)

<i>System Manufacturer</i>		SIEMENS HEALTHCARE												
<i>System</i>		MULTIX FUSION DIGITAL RADIOGRAPGHY SYSTEM												
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _p /W _p	S _{DS}	z/h	a _p	R _p	Ω ₀	
		W	D	H										
<i>Notes</i>	<ol style="list-style-type: none"> 1. BASIS: <ul style="list-style-type: none"> • UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program. • SAME: Model is physically, mechanically & electrically the same as test specimen. Difference is limited to model number, color, software and/or Siemens manufacturing location. • INT (Interpolate/Extrapolate): indicates a model that was not specifically tested, and by which seismic certification is established through evaluation of testing of other, similar models in the product line 2. Weight of Patient Table Stand does not include 660 lb. patient load present during testing. 3. Test specimen included special features/enhancements not typically found in the standard production units. The seismic enhancements found in the test specimen shall be installed as a necessary condition of the conclusions and recommendations of this report. 4. Weight listed includes 118 lb. for longitudinal rails. 5. All wall stands addressed herein exclude the optional Spacer Box. 													

ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT- 1 TUBE SUPPORT W/ 4 M TRANSVERSE TRACK, FULLY AUTOMATED									
MANUFACTURER:		Siemens Healthcare							
IDENTIFICATION:		Subassembly	X-Ray Tube Stand	4m Fully Automated Bridge					
		Model No.	10092609	7042224					
DESCRIPTION:		Component of YSIO system							
MOUNTING:		Ceiling suspended w/ (2) – M10 bolt w/ P1008M10 channel nut to Unistrut P1000 supports at (5) locations along ea. of (2) longitudinal rails. (20 bolts total)							
NOTES		Listed width excludes length of longitudinal rails. Height is measured B.O. transverse rail to B.O. Collimator							
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		X-Axis	Y-Axis	Z-Axis		
24.0	172.5	50	887.5		N/A	N/A	N/A		
SHAKE TABLE TEST PARAMETERS									
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.34	0.54	
		2.6	0.0	1.5	2.60	1.04	1.74	0.70	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									



UUT-2 PATIENT TABLE W/ WI-D DETECTOR									
MANUFACTURER:		Siemens Healthcare							
IDENTIFICATION:		Model No.: 10281013							
DESCRIPTION:		Component of YSIO system							
MOUNTING:		Rigid Base (Floor) Mounted (4) - 5/8 diam. gr. 5 hex head bolts to interface plate							
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Transverse-Axis	Longitudinal-Axis	Vertical-Axis		
94 7/8	31.5	20 ¼ - 37 ½	1013 + 662 patient		2.4	23.0	11.7		
SHAKE TABLE TEST PARAMETERS									
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.34	0.54	
		2.6	0.0	1.5	2.60	1.04	1.74	0.70	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									



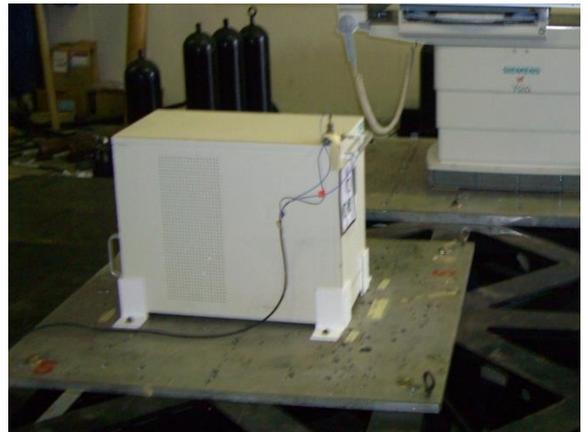
UUT- 3 DOCKING STATION W/ WI-D DETECTOR								
MANUFACTURER: Thales								
IDENTIFICATION: Part No.: 62155967								
Serial No.: 1201D5								
DESCRIPTION: Component of the Ysio system								
MOUNTING: Wall Mounted (4) - 1/4" diam. hex washer head sheet metal screws through 5/8" wall board to 16ga. steel backing.								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height			Side-Axis	Front-Axis	Vertical-Axis	
20 1/2	8	18 (MAX)	33	N/A	N/A	N/A		
SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0 2.6	1.0 0.0	1.5 1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test.								

UUT-4 WALL STAND W/ WI-D DETECTOR								
MANUFACTURER: Siemens Healthcare								
IDENTIFICATION: Model No.: 10150519								
Serial No.: 1032								
DESCRIPTION: Component of the Ysio system								
MOUNTING: Rigid Base (Floor) Mounted (4) - 5/8 diam. gr. 5 hex head bolts to interface plate.								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height			Side-Axis	Front-Axis	Vertical-Axis	
30	26 7/8	82.5	661	8.1	8.8	8.8		
SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0 2.6	1.0 0.0	1.5 1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test.								

UUT- 5 POLYDOROS R80 GENERATOR CABINET								
MANUFACTURER:			Siemens Healthcare					
IDENTIFICATION:			Model No.: 10096980					
			Serial.: 1478					
DESCRIPTION:			Component of the Ysio system					
MOUNTING:			Wall/Floor Mounted (2) - 1/4" gr. 1 hex head bolts at each of (2) brackets at top of cabinet to 3/8" steel channel backing w/ washer and nut at back side (4 bolts total to wall) (2) - 3/8" diam. Allen Head Cap Screws w/ washers to interface plate at base.					
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Side-Axis		Front-Axis	Vertical-Axis		
31	17	86 ¾	883	16.3	11.1	>50		
SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0 2.6	1.0 0.0	1.5 1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test								



UUT-6 IMAGING SYSTEM FLUROSPOT COMPACT								
MANUFACTURER:			Siemens Healthcare					
IDENTIFICATION:			Model no.: 10281016					
			Serial No.: 1174					
DESCRIPTION:			Component of the Ysio system					
MOUNTING:			Rigid Base (Floor) Mounted (4)-3/8" diam. Allen Head Cap Screws w/ washers to interface plate					
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Side-Axis		Front-Axis	Vertical-Axis		
13 3/8	27	21 7/8	116	6.7	21.6	47.5		
SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0 2.6	1.0 0.0	1.5 1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test								



UUT- 8 X-Ray Tube Stand with 3-meter Transverse Track, Fully Synchronized								
MANUFACTURER:			Siemens Healthcare					
IDENTIFICATION:			Model No. 7042232					
DESCRIPTION:			Component of the Luminos dRF system and others.					
			3D Stand Ysio semi-motorized 3m:			7042232		
			Carriage 3D V 3m semi			7043578		
			Tube stand 3D V semi-motorized			7042034		
			Collimator AL02 II -D			10092609		
			Optitop 150/40/80HC-100			3345209		
MOUNTING:			Ceiling Suspended using (2) – M10 bolts @ (5) locations along each longitudinal rail to Unistrut P1000 supports. (20 bolts total)					
NOTES:			Weight and width parameters documented below represent length of longitudinal rails cut to fit within test frame. Discrepancies between other published and measured dimensions are due to differences in selected points of reference.					
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front-Axis		Side-Axis	Vertical-Axis		
120	126	106	754	N/A	N/A	N/A		
SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.34	0.54
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test								



UUT- A1 Polydoros RF RAD 80 Generator Cabinet								
MANUFACTURER:		Siemens Medical Solutions						
IDENTIFICATION:		Model No.: 10606040						
		Serial No.: 1170						
DESCRIPTION:		Component of Multix Fusion System 80 kW X-Ray generator cabinet						
MOUNTING:		Rigid Base (Floor) Mounted using (4)-3/8" diam. Allen Head Cap Screws w/ washers to interface plate.						
								
PROPERTIES:								
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height				Side-Axis	Front-Axis	Vertical-Axis
22.5	50	21.4	424		32.6	31.9	12.3	
SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.34	0.54
		2.6	0.0	1.5	2.60	1.04	1.74	0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test								

UUT-A2 Power Box (for wired detector)								
MANUFACTURER:		Siemens Medical Solutions						
IDENTIFICATION:		Model No.: 10847706						
DESCRIPTION:		Component of Multix Fusion System						
MOUNTING:		Wall mounted using: (4) - 1/4" diam. hex head sheet metal screws w/ washers through 5/8" wall board to 16ga backing						
								
PROPERTIES:								
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height				Front-Axis	Side-Axis	Vertical-Axis
12 3/8	2 1/4	11	10		N/A	N/A	N/A	
SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.34	0.54
		2.6	0.0	1.5	2.60	1.04	1.74	0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test								

UUT-A3 Fluorospot Compact Imaging System	
MANUFACTURER:	Siemens Medical Solutions
IDENTIFICATION:	Model No.: 10569621 Serial No.: 1134
DESCRIPTION:	Component of Multix Fusion System
MOUNTING:	Rigid Base (Floor) Mounted using (4) - 3/8" diam. Allen Head Cap Screws with corner brackets



PROPERTIES:							
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Side-Axis		Front-Axis	Vertical-Axis	
17 5/8	27 5/8	22 7/8	157.5	12.5	18.4	16.2	

SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0 2.6	1.0 0.0	1.5 1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70

Unit maintained structural integrity and functionality after the ICC-ES AC 156 test

UUT-A6 3M Transverse Bridge and X-Ray Tube Stand	
MANUFACTURER:	Siemens Medical Solutions
IDENTIFICATION:	Model No.: 10746666 Serial No.: 1037
DESCRIPTION:	Component of Multix Fusion System
3D V Ceiling Stand ACSS T 3m:	7042166 Carriage 3D V 3m semi 7043578 Tube stand 3D V ACSS T 7042042 Collimator AL02 II eL 10092614 Optitop 150/40/80HC-100 3345209
MOUNTING:	Ceiling Suspended using (2) – M10 bolts @ (5) locations along each longitudinal rail to Unistrut P1000 supports. (20 bolts total)



PROPERTIES:							
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	X-Axis		Y-Axis	Z-Axis	
167.3	119.3	32.7 / 103.6	632 Suspended Equipment + 118 Rails	N/A	N/A	N/A	

SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0 2.6	1.0 0.0	1.5 1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70

Unit maintained structural integrity and functionality after the ICC-ES AC 156 test

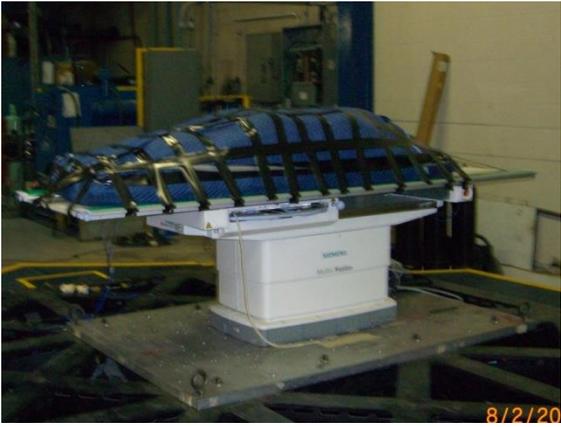
UUT- A7		Pro Non-Tilting Wall Stand						
MANUFACTURER:		Siemens Medical Solutions						
IDENTIFICATION:		Label 1: Model: 10681650 Serial: 1044	Label 2: Model: 10681670 Serial: 10053					
DESCRIPTION:		Component of Multix Fusion System. <u>Includes:</u> Varian Medical Systems wired portable digital detector (Model No. 10847569) installed in cassette tray during test. <u>UUT deviations from Standard Production Unit:</u> Cassette tray modified to retain tray within UUT throughout test.						
MOUNTING:		Rigid Base (Floor) Mounted using (4) - 5/8" dia bolts w/ washers						
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Front-Axis	Side-Axis	Vertical-Axis		
30	16.6	82.9	452	12.8	14.5	13.6		
SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0 2.6	1.0 0.0	1.5 1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test								



UUT-A8		Top Tilting Wall Stand w/ Digital Detector						
MANUFACTURER:		Siemens Medical Solutions						
IDENTIFICATION:		Model No.: 10681670 Serial No.: 10052						
DESCRIPTION:		Component of Multix Fusion System. <u>Includes:</u> Varian Medical Systems wired portable digital detector (Model No. 10847569) installed in cassette tray during test. <u>UUT deviations from Standard Production Unit:</u> Cassette tray modified to retain tray within UUT throughout test.						
MOUNTING:		Rigid Base (Floor) Mounted using (4) - 5/8" dia bolts w/ washers						
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Front-Axis	Side-Axis	Vertical-Axis		
30	28.1 / 36.8	82.9	490	9.1	8.4	9.3		
SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0 2.6	1.0 0.0	1.5 1.5	3.20 2.60	2.40 1.04	1.34 1.74	0.54 0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test								



ATTACHMENT 2: TEST SPECIMEN SUMMARY

UUT-A9 Patient Table w/ Digital Detector								
MANUFACTURER:			Siemens Medical Solutions					
IDENTIFICATION:			Model No.: 10273204					
			Serial No.: 1127					
DESCRIPTION:			Component of Multix Fusion System. <u>Includes:</u> Varian Medical Systems wired portable digital detector (Model No. 10847569) installed in cassette tray during test. <u>UUT deviations from Standard Production Unit:</u> Cassette tray modified to retain tray within UUT throughout test.					
MOUNTING:			Rigid Base (Floor) Mounted using (4) - 5/8" diam. gr. 5 hex head bolts w/ washers to interface plate.					
								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Longitudinal-Axis		Transverse-Axis	Vertical-Axis		
31.50	94.84	20.3 / 37.6	886 + 660 patient load	27.4	2.4	7.4		
SHAKE TABLE TEST PARAMETERS								
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.20	2.40	1.34	0.54
		2.6	0.0	1.5	2.60	1.04	1.74	0.70
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test								

UUT- B1 Ysio Table for MAX wi-D									
MANUFACTURER: Siemens Healthcare									
IDENTIFICATION: Model No.: 10273210 Serial No.: 1028									
DESCRIPTION: Component of Ysio Max System. UUT-5 installed during test.									
MOUNTING: Floor mounted using (4) – 5/8" diam. gr. 8 hex head bolts w/ washers to interface plate.									
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			Transverse-Axis	Longitudinal-Axis	Vertical-Axis		
31.5	94.88	20.28– 37.60	835 + 440 patient	25.2	>50	11.6			
SHAKE TABLE TEST PARAMETERS									
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.34	0.54	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									

UUT- B2 Bucky Wall Stand with MAX Static									
MANUFACTURER: Siemens Healthcare									
IDENTIFICATION: Model No.: 10681702 Serial No.: 10947									
DESCRIPTION: Component of Ysio Max System. Tilting bucky wall stand w/ Trixell MAX Static fixed plate digital detector (10762401) Includes optional Overhead Patient Handgrip									
MOUNTING: Floor mounted using (4) – 5/8" diam. gr. 8 hex head bolts w/ washers to interface plate.									
PROPERTIES:									
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height			Front-Axis	Side-Axis	Vertical-Axis		
30.0	48.86 w/ "ext pole"	85	528	7.7	8.6	8.7			
SHAKE TABLE TEST PARAMETERS									
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.34	0.54	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									

UUT- B3 FLUOROSPOT COMPACT										
MANUFACTURER:		Siemens Healthcare								
IDENTIFICATION:		Model No.: 10762484				Serial No.: 1038				
DESCRIPTION:		Component of Ysio Max System.								
MOUNTING:		Floor mounted using (4) – 3/8" diam. Allen Head Cap Screws to interface plate.								
PROPERTIES:										
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height				Side-Axis	Front-Axis	Vertical-Axis		
13.4	25.9	21.75			85	12.7	20.7	26.3		
SHAKE TABLE TEST PARAMETERS										
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.34	0.54		
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test										



UUT- B4 Wireless Access Point										
MANUFACTURER:		Siemens Healthcare								
IDENTIFICATION:		Model No.: Scalance W700								
DESCRIPTION:		Component of Ysio Max System								
MOUNTING:		Wall mounted using (4) - ¼ self-tapping hex washer head sheet metal screws through 5/8" wall board to 16 ga. steel backing plate.								
PROPERTIES:										
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height				Front-Axis	Side-Axis	Vertical-Axis		
7.875	2.75	6.22			5.5	N/A	N/A	N/A		
SHAKE TABLE TEST PARAMETERS										
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.34	0.54		
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test										



UUT- B6 Polydoros Generator Cabinet									
MANUFACTURER:		Siemens Healthcare							
IDENTIFICATION:		Model No.: 10096980							
DESCRIPTION:		Component of Ysio Max System.							
MOUNTING:		Wall/Floor mounted using (4) 1/4" diam. gr. 8 bolts to wall and (2) – 5/8" diam. Allen Head Cap Screws to interface plate at base.							
PROPERTIES:									
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height				Side-Axis	Front-Axis	Vertical-Axis	
31.5	17.09	86.69			835	17.3	13.0	18.1	
SHAKE TABLE TEST PARAMETERS									
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.34	0.54	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									



UUT- C1 TILTING BUCKY WALL STAND									
MANUFACTURER:		Siemens Healthcare							
IDENTIFICATION:		Model No.: 10681704							
DESCRIPTION:		Component of the Axiom Luminos Agile Max system, "Seismic Edition".							
MOUNTING:		Rigid Base (Floor) Mounted using (4) – 5/8" dia GR 8 hex head bolts with washers to aluminum interface plate.							
PROPERTIES:									
DIMENSIONS (in.)					Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height				Side-Axis	Front-Axis	Vertical-Axis	
30	28.1	82.9			643	9.1	11.7	9.1	
SHAKE TABLE TEST PARAMETERS									
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 2013	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.34	0.54	
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test									

