



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0484

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Samsung

Manufacturer's Technical Representative: Ninad Gujar

Mailing Address: 14 Electronics Avenue, Danvers, MA 01923

Telephone: (978) 564-8632

Email: ngujar@neurologica.com

Product Information

Product Name: Fluoroscopy and Radiography Systems

Product Type: NA

Product Model Number: See Attachment 1

General Description: GC85A Digital X-Ray System. Multiple component medical diagnostic imaging system.

Mounting Description: See Certified Product Tables, -

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: EASE LLC

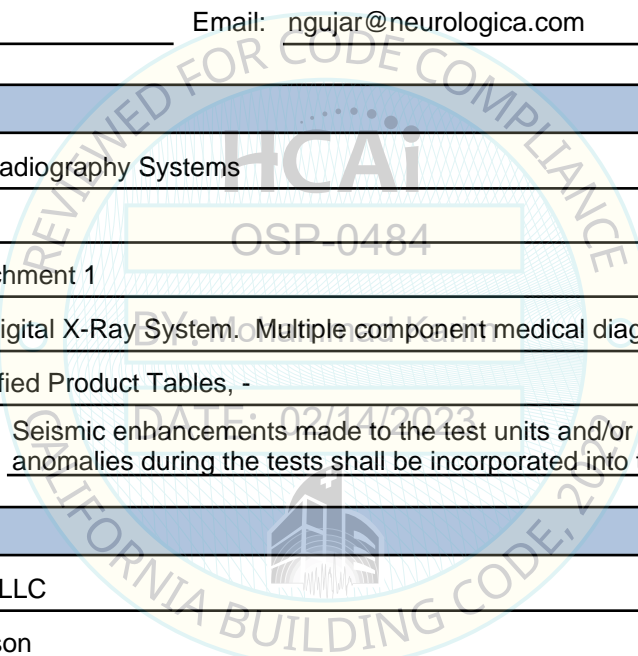
Contact Person: Jonathan Roberson

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

Telephone: (909) 606-7622

Email: j.roberson@easeco.com

Title: Principal Structural Engineer





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

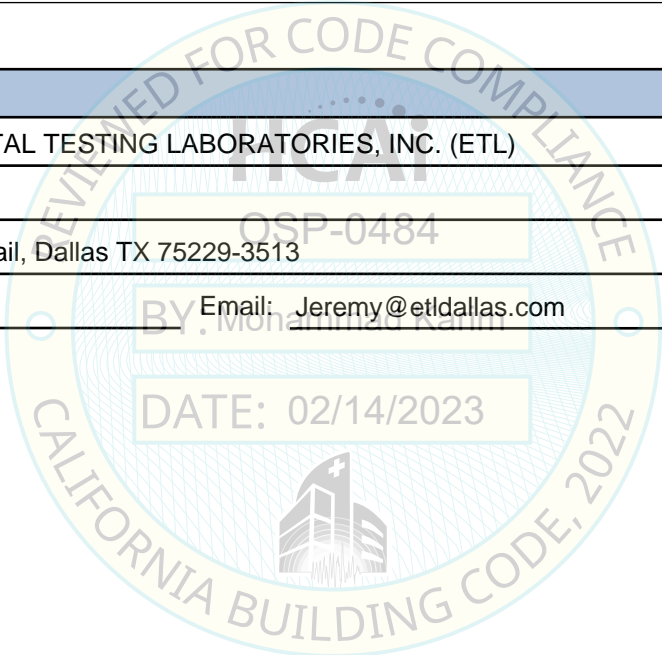
Company Name: EASE LLC
Name: Jonathan Roberson California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709
Telephone: (951) 295-1892 Email: jon@EASECo.com

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





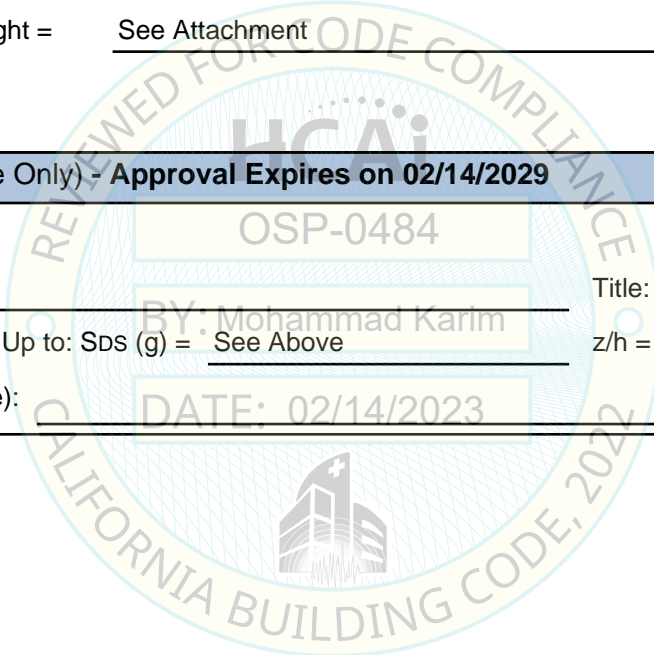
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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) =	See Attachment 1
SDS (Design spectral response acceleration at short period, g) =	2.0 @ z/h = 1; 2.5 @ z/h = 0
a_p (Amplification factor) =	See Attachment 1
R_p (Response modification factor) =	See Attachment 1
Ω_0 (System overstrength factor) =	2.0
I_p (Importance factor) =	1.5
z/h (Height ratio factor) =	1 and 0
Natural frequencies (Hz) =	See Attachment
Overall dimensions and weight =	See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 02/14/2029

Date:	02/14/2023	OSP-0484	
Name:	Mohammad Karim	BY: Mohammad Karim	Title: Supervisor, Health Facilities
Special Seismic Certification Valid Up to: SDS (g) =	See Above	z/h =	See Above
Condition of Approval (if applicable):	DATE: 02/14/2023		



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1:

Manufacturer		Samsung													
System		GC85A Digital X-Ray System													
COMPONENT	MODEL 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											
X-RAY TUBE SUSPENSIONS															
Ceiling-mounted Tube Head Unit w/ 3 meter Bridge	SDR-OGTS80U	157.5	118.1	49.3	885	Ceiling	UUT 1601-1	3.60 Wp 1.50 Wp	2.0 2.5	1 0	2 ½	2 ½	2		
PATIENT TABLES ^[4]															
Patient Table including: Digital X-ray Detector (C2)	SDR-OGTA80U S4343-W	94.9	32.0	21.5 min 35.4 max	504 ^[2]	Rigid Base	UUT 1607-11	2.40 Wp 1.13 Wp	2.0 2.5	1 0	1	1 ½	2		
Patient Table including: Digital X-ray Detector (C1#)	SDR-OGTA80U S4335-W			21.5 min 35.4 max	441 ^[9]	Rigid Base	UUT 1601-2	2.40 Wp 1.13 Wp	2.0 2.5	1 0	1	1 ½	2		
WALL STANDS ^[5]															
Wall Stand including Digital X-ray Detector (C2)	SDR-OGST80U S4343-W	23.7	40.2	89.5	397	Wall/Floor	UUT 1601-11	2.40 Wp 1.13 Wp	2.0 2.5	1 0	1	1 ½	2		
Wallstand Wireless Detector (C1#)	SDR-OGST73A S4335-W			29.3	37.4	85.8	430	Wall/Floor	UUT 1607-4	2.40 Wp 1.13 Wp	2.0 2.5	1 0	1	1 ½	2
Wallstand Wireless Detector (C2)	SDR-OGST73B S4343-W	29.3	37.4	85.8	430	Wall/Floor	UUT 1607-5								
POWER DISTRIBUTION ^[6]															
System Cabinet w/ 82kW HVG (DRGEM)	SDR-OGCA80U	29.5	19.9	44.9	485	Rigid Base	UUT 1601-4 1802-1	1.50 Wp 1.13 Wp	2.0 2.5	1 0	2 ½	6	2		
System Cabinet w/ 82kW HVG (DRGEM)	SDR-OGCA75A	29.5	19.9	44.1	485	Rigid Base	UUT 1607-6	1.50 Wp 1.13 Wp	2.0 2.5	1 0	2 ½	6	2		
System Cabinet w/ 52kW HVG (DRGEM)	SDR-OGCA75B	29.5	19.9	44.1	485	Rigid Base	SAME	1.50 Wp 1.13 Wp	2.0 2.5	1 0	2 ½	6	2		
System Cabinet w/ 50kW HVG (SPELLMAN)	SDR-OGCA75D	29.5	19.9	44.1	408	Rigid Base	UUT 1607-7	1.50 Wp 1.13 Wp	2.0 2.5	1 0	2 ½	6	2		
System Cabinet w/ 80kW HVG (SPELLMAN)	SDR-OGCA75C	29.5	19.9	44.1	408	Rigid Base	UUT 1607-9	1.50 Wp 1.13 Wp	2.0 2.5	1 0	2 ½	6	2		
USER INTERFACE															
Lenovo ThinkStation P310 PC ^[7]	30ASS04X00	6.9	16.8	14.8	19	Rigid Base	UUT 1601-5	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2		
Lenovo ThinkCentre M900 PC ^[8]	10FLS1P200	7.0	7.2	1.4	3	Rigid Base	UUT 1601-6	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2		


Table continues next page


ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1:

<i>Manufacturer</i>		Samsung												
<i>System</i>		GC85A Digital X-Ray System												
COMPONENT	MODEL 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										
MISC														
Cisco Access Point	AIR-SAP2602I-A-K9	8.7	8.7	2.1	2	Rigid Base	UUT 1601-7	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
Cisco Access Point	AIR-SAP2602I-B-K9	8.7	8.7	2.1	2	Rigid Base	SAME	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
DLINK Switch	DGS-1008P	7.5	4.7	1.5	2	Rigid Base	UUT 1601-8	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
DLINK Wireless Access Point	DIR-850L	5.75	4.25	3.75	1	Rigid Base	UUT 1601-9	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
Control Interface Box (CIB)	SDR-OGCI80U	3.5	7.25	7.5	2	Rigid Base	UUT 1601-10	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
D-Link Access Point	DAP-2660A1	6.7	6.7	1.1	0.5	Rigid Base	UUT 1607-12	1.44 Wp 1.13 Wp	2.0 2.5	1 0	1	2 ½	2	
<i>Mount</i>	<p>RIGID BASE (FLOOR) MOUNT: free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p>WALL/FLOOR MOUNT refers to a condition where the unit bears on and anchored 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>CEILING SUSPENDED refers to a condition where the 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. Patient table weight includes all listed options but excludes 544 lb. simulated patient load present during testing. All components are manufactured by Samsung, unless otherwise noted. Requires use of Samsung Seismic Option Kit: Patient Table (Part No.: DGR-ACCSTA1/US) or equivalent. Requires use of Samsung Seismic Option Kit: Wall Stand (Part No.: DGR-ACCST2/US) or equivalent. Requires use of Samsung Seismic Option Kit: Cabinet (Part No.: DGR-ACCSCA1/US) or equivalent. Requires use of Samsung Seismic Option Kit: Workstation (Part No. DGR-ACCSPC1/US) or equivalent. Requires use of Samsung Seismic Option Kit: Workstation (Part No. DGR-ACCSPC2/US) or equivalent. Patient table weight excludes detector, case, anti-scatter grid, seismic option kit, cabling, and 545 lb. simulated patient load present during testing. Seismic Qualification limited to components used as part of a Samsung medical imaging system. 													

ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

UUT-1601-1 Ceiling-mounted Tube Head Unit w/ 3m Bridge								
MANUFACTURER: Samsung								
IDENTIFICATION: Model No.: SDR-OGTS80U								
DESCRIPTION: Component of the GC85A Digital X-Ray system.								
MOUNTING: Ceiling Mounted using (2) – M8 A2-70 Stainless bolts & Samsung Fixing Bracket to Unistrut P1000 supports spaced 26" o.c. (10 locations total).								
PROPERTIES: *Weight includes equipment and all cabling attached to fixture.								
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vert-Axis		
157.5	118.1	49.3	885*	---	---	---		
SHAKE TABLE TEST PARAMETERS								
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)	
ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.								

UUT-1601-2 Patient Table w/ Detector								
MANUFACTURER: Samsung								
IDENTIFICATION: Model No.: SDR-OGTA80U								
DESCRIPTION: Component of the GC85A Digital X-Ray system. Samsung S4335-W Digital Flat Panel Detector installed. 545 simulated patient load. Unit included enhancements not found on standard production units. Seismic Option Kit (Patient Table, Part No.: DGR-ACCSTA1/US)								
MOUNTING: Rigid Base (Floor) Mounted using (8) – 5/8" diameter Grade 8 bolts w/ washers.								
PROPERTIES: *Tested Height = 31"								
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vert-Axis		
94.9	32.0	21.5 min / 35.4 max*	441 + 545 Patient	10.2	31.2	8.5		
SHAKE TABLE TEST PARAMETERS								
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)	
ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.								

ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

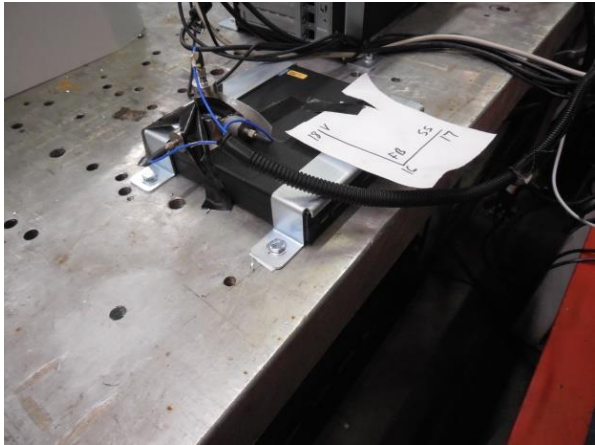
UUT-1601-4 Cabinet w/ HVG							
MANUFACTURER:		Samsung					
IDENTIFICATION:		Model No.: SDR-OGCA80U (System Cabinet) Model No.: GXR-82 (HV Generator)					
DESCRIPTION:		Component of the GC85A Digital X-Ray system. Unit included enhancements not found on standard production units. Seismic Option Kit (Cabinet, part no.: DGR-ACCSCA1/US)					
MOUNTING:		Rigid Base (Floor) Mounted using (3) – 3/8" diam. socket head cap screws each bracket (6 total) to aluminum plate. (3) – M8 stainless steel (A2-70) screws through bracket to cabinet frame (Torque = 220 cm-kgf). Typical each bracket.					
PROPERTIES:							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vert-Axis	
29.5	19.9	44.9	358	9.6	15.3	>50	
SHAKE TABLE TEST PARAMETERS							
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)
ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							




UUT-1601-5 Lenovo ThinkStation P310							
MANUFACTURER:		Lenovo					
IDENTIFICATION:		Model no.: 30ASS04X00					
DESCRIPTION:		Component of the GC85A Digital X-Ray system. Unit included external mounting brackets provided by Samsung. Seismic Option Kit (Workstation , part no.: DGR-ACCSPC1/US).					
MOUNTING:		Rigid Base using (4) – 1/4" -20 machine screws through external mounting brackets provided by Samsung.					
PROPERTIES:							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vert-Axis	
6.9	16.8	14.8	19	20.2	34.9	>50	
SHAKE TABLE TEST PARAMETERS							
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)
ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							



ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

UUT-1601-6								Lenovo ThinkCentre M900	
MANUFACTURER:				Lenovo					
IDENTIFICATION:				Model no.: 10FLS1P200					
DESCRIPTION:				Component of the GC85A Digital X-Ray system. Unit included external mounting brackets provided by Samsung. Seismic Option Kit (Workstation , part no.: DGR-ACCSPC2/US)					
MOUNTING:				Rigid Base using (4) – ¼” -20 machine screws through external mounting brackets provided by Samsung.					
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vert-Axis		
7.0	7.2	1.4	3		>50	>50	>50		
SHAKE TABLE TEST PARAMETERS									
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)	
ICC-ES AC156		2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.									

UUT-1601-7								Access Point	
MANUFACTURER:				Cisco					
IDENTIFICATION:				Model no.: AIR-SAP26021-A-K9					
DESCRIPTION:				Component of the GC85A Digital X-Ray system.					
MOUNTING:				Rigid Base using (2) – ¼”-20 x 1” machine screws through cisco mounting bracket.					
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vert-Axis		
8.7	8.7	2.1	2		46.2	43.7	45.1		
SHAKE TABLE TEST PARAMETERS									
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)	
ICC-ES AC156		2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.									

ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS


UUT-1601-8 DLINK Switch							
MANUFACTURER:		Samsung					
IDENTIFICATION:		Model No.: DGS-1008P					
		Serial No.: QXBP1G3000010					
DESCRIPTION:		Component of the GC85A Digital X-Ray system.					
MOUNTING:		Countertop Anchored (CTA) Mounted using (2) – 1" x 7" industrial Velcro hook & loop tape.					
PROPERTIES:							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vert-Axis	
7.5	4.7	1.5	2	>50	>50	>50	
SHAKE TABLE TEST PARAMETERS							
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)
ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							




UUT-1601-9 DLINK Wireless Access Point DIR-850L							
MANUFACTURER:		Samsung					
IDENTIFICATION:		Model no.: KIR850LKKR...A1E					
DESCRIPTION:		Component of the GC85A Digital X-Ray system.					
MOUNTING:		Countertop Anchored (CTA) Mounted using (2) – 1" x 5" industrial Velcro hook & loop tape.					
PROPERTIES:							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vert-Axis	
5.75	4.25	3.75	1	>50	>50	>50	
SHAKE TABLE TEST PARAMETERS							
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)
ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							





ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS


UUT-1601-10 Control Interface Box							
MANUFACTURER:		Samsung					
IDENTIFICATION:		Model no.: SDR-OGCI80U					
DESCRIPTION:		Component of the GC85A Digital X-Ray system.					
MOUNTING:		Rigid Base (Floor) Mounted using 1/4"-20 x 1" machine screw in tapped hole in aluminum plate.					
							
PROPERTIES:							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vert-Axis	
3.5	7.25	7.5	2	38.5	38.8	42.4	
SHAKE TABLE TEST PARAMETERS							
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)
ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							


UUT-1601-11 Wall Stand w/ Detector							
MANUFACTURER:		Samsung					
IDENTIFICATION:		Model no.: SDR-OGST80U					
DESCRIPTION:		<p>Component of the GC85A Digital X-Ray system.</p> <p>Samsung S4335-W wireless digital flat panel detector installed.</p> <p>Unit included enhancements not found on standard production units. Seismic Option Kit (Wall Stand, part no.: DGR-ACCSST1/US).</p>					
MOUNTING:		Wall/Floor Mounted using (4) – 1/2" dia GR 8 bolts to floor and (4) – 3/8" dia GR 8 bolts to wall. All bolts include washers.					
							
PROPERTIES:							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vert-Axis	
23.7	40.2	89.5	397	---	---	---	
SHAKE TABLE TEST PARAMETERS							
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)
ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							


ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS


UUT-1607-4 Wallstand w/ Rotating Detector Tray and C1# Detector									
MANUFACTURER:		DRGEM	Samsung	JPI					
IDENTIFICATION:		Wallstand	Detector	Anti-Scatter Grid					
Model No.:		SDR-OGST73A	S4335-W	M197-03295A					
DESCRIPTION:		Component of GC70 & GC85A digital radiography system Manual Tilting Wallstand w/ <ul style="list-style-type: none"> Rotating detector tray (change from portrait to landscape) Wireless portable digital detector installed (C1#) Anti-scatter grid installed (110 cm SID) Seismic option Kit (Wall Stand part no.: DGR-ACCSST2/US) <ul style="list-style-type: none"> Wall Stand Top Brackets Wall Stand Detector-Tray Holder 							
MOUNTING:		Wall/Floor mounted using (2) – 3/8" diam. socket head cap screws & washers (Torque=25 ft-lb) to floor and (4) – 3/8" diam. gr 8 bolts to wall.							
PROPERTIES:					*Installed weight, including mounting hardware and all cabling attached to fixture				
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Front-Axis		Side-Axis	Vert-Axis			
29.25	37.36	85.8	439.5*		---	---	---		
SHAKE TABLE TEST PARAMETERS									
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)	
ICC-ES AC156		2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.									

UUT-1607-5 Manual Tilting Wallstand w/ Rotating Detector Tray & C2 Detector									
MANUFACTURER:		DRGEM	Samsung	JPI					
IDENTIFICATION:		Wallstand	Detector	Anti-Scatter Grid					
Model No.:		SDR-OGST73B	S4343-W	M197-03297A					
DESCRIPTION:		Component of GC70 & GC85A digital radiography system Manual Tilting Wallstand w/ <ul style="list-style-type: none"> Wireless portable digital detector installed (C2) Anti-scatter grid installed (180 cm SID) Seismic option Kit (Wall Stand, part no.: DGR-ACCSST2/US) <ul style="list-style-type: none"> Wall Stand Top Brackets Wall Stand Detector-Tray Holder 							
MOUNTING:		Wall/Floor mounted using (2) – 3/8" diam. socket head cap screws & washers (Torque=25 ft-lb) to floor and (4) – 3/8" diam. gr 8bolts to wall.							
PROPERTIES:					*Installed weight, including mounting hardware and all cabling attached to fixture.				
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Front-Axis		Side-Axis	Vert-Axis			
29.25	37.36	85.8	438*		---	---	---		
SHAKE TABLE TEST PARAMETERS									
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)	
ICC-ES AC156		2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.									

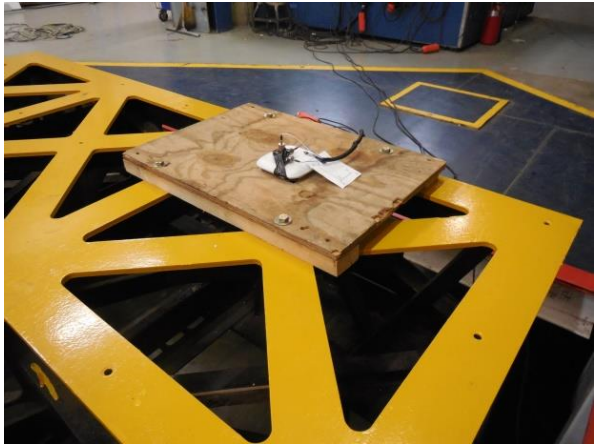
UUT-1607- 6 System Cabinet Type A w/ 82kW HVG (DRGEM)									
MANUFACTURER: Samsung									
IDENTIFICATION: Model No.: SDR-OGCA75A									
DESCRIPTION: Component of GC70 & GC85A digital radiography system 82kW High Voltage X-Ray Generator (HVG) by DRGEM Mounting brackets are provided in : <ul style="list-style-type: none"> Seismic Option Kit (Cabinet, part no.: DGR-ACCSCA1/US) 									
MOUNTING: Rigid Base (Floor) Mounted using (3) – 3/8" diam. socket head cap screws each bracket (6 total) to aluminum plate. (3) – M8 stainless steel (A2-70) screws through bracket to cabinet frame (Torque = 220 cm-kgf). Typical each bracket.									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vert-Axis		
29.5	19.9	44.1	485		13.48	15.12	>50		
SHAKE TABLE TEST PARAMETERS									
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)	
ICC-ES AC156		2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.									


UUT-1607- 7 System Cabinet Type B w/ 50kW HVG (Spellman)									
MANUFACTURER: Samsung									
IDENTIFICATION: Model No.: SDR-OGCA75D									
DESCRIPTION: Component of GC70 & GC85A digital radiography system 50kW High voltage X-Ray Generator (HVG) by Spellman High Voltage Electronics. Mounting brackets are provided in : <ul style="list-style-type: none"> Seismic Option Kit (Cabinet, part no.: DGR-ACCSCA1/US) 									
MOUNTING: Rigid Base (Floor) Mounted using (3) – 3/8" diam. socket head cap screws each bracket (6 total) to aluminum plate. (3) – M8 stainless steel (A2-70) screws through bracket to cabinet frame (Torque = 220 cm-kgf). Typical each bracket.									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vert-Axis		
29.5	19.9	44.1	408		10.61	11.64	>50		
SHAKE TABLE TEST PARAMETERS									
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)	
ICC-ES AC156		2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.									

UUT-1607-9 System Cabinet w/ 80kW HVG (Spellman)									
MANUFACTURER:		Samsung							
IDENTIFICATION:		Model No.: SDR-OGCA75C							
DESCRIPTION:		Component of GC70 & GC85A digital radiography system 80kW High Voltage X-Ray Generator (HVG) by Spellman High Voltage Electronics. Mounting brackets are provided in : <ul style="list-style-type: none"> Seismic Option Kit (Cabinet, part no.: DGR-ACCSCA1/US) 							
MOUNTING:		Rigid Base (Floor) Mounted using (3) – 3/8" diam. socket head cap screws each bracket (6 total) to aluminum plate. (3) – M8 stainless steel (A2-70) screws through bracket to cabinet frame (Torque = 220 cm-kgf). Typical each bracket.							
									
PROPERTIES:									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vert-Axis		
29.5	19.9	44.1	408		12.71	11.37	21.14		
SHAKE TABLE TEST PARAMETERS									
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)	
ICC-ES AC156		2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.									

UUT-1607-11 Patient Table w/ C2 Detector & Grid									
MANUFACTURER:		Samsung							
IDENTIFICATION:		Table	Detector	Grid					
Model No.:		SDR-OGTA80U	S4343W	M197-03297A					
DESCRIPTION:		Component of GC70 & GC85A digital radiography system Elevating Float-Top Radiographic Table w/ <ul style="list-style-type: none"> Wireless portable digital detector installed Anti-scatter grid installed (180 cm SID) Seismic Option Kit (Patient Table, part no.: DGR-ACCSTA1/US) <ul style="list-style-type: none"> Patient Table Detector Tray/Grid Holder Patient Table Grid Holder 							
MOUNTING:		Rigid Base (Floor) Mounted w/ (8) – 5/8" Grade 8 hex head bolts w/ washers to tapped holes in aluminum interface plate.							
									
PROPERTIES:									
*Tested Height = 31 in									
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)		Front-Axis	Side-Axis	Vert-Axis		
94.9	32.0	21.5 min / 35.4 max*	510 + 544 Patient		30.90	25.21	13.45		
SHAKE TABLE TEST PARAMETERS									
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)	
ICC-ES AC156		2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.									

ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

UUT-1607-12 D-Link Access Point								
MANUFACTURER: Samsung								
IDENTIFICATION: Model No.: DAP-2660A1								
DESCRIPTION: Component of GC70 & GC85A digital radiography system								
MOUNTING: Rigid Base Mounted w/ (2) - #8 x 3/4 SMS through D-Link mounting bracket to 3/4" thick plywood sheet.								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front-Axis		Side-Axis	Vert-Axis		
6.7	6.7	1.1	>50		30.59	44.03		
SHAKE TABLE TEST PARAMETERS:								
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)	
ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.								

UUT-1802-1 GC85A System Cabinet w/ HVG								
MANUFACTURER: Samsung								
IDENTIFICATION: Model No.: SDR-OGCA80U								
DESCRIPTION: Component of GC85A digital radiography system GXR-82 High Voltage Generator by DRGEM Samsung Seismic Option Kit: Cabinet (Part No.: DGR-ACCSCA1/US)								
MOUNTING: Rigid Base (Floor) Mounted using (3) – 3/8" diam. socket head cap screws each bracket (6 total) to aluminum plate. (3) – M8 stainless steel (A2-70) screws through bracket to cabinet frame (Torque = 220 cm-kgf). Typical each bracket.								
PROPERTIES:								
DIMENSIONS (in.)				Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Front-Axis		Side-Axis	Vert-Axis		
29.5	22.4	44.9	>50		>50	>50		
SHAKE TABLE TEST PARAMETERS:								
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)	
ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.								