



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0732

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Philips Healthcare

Manufacturer's Technical Representative: Nancy Udovic

Mailing Address: Veenpluis 4-6, 5684 PC Best, Netherlands

Telephone: (440) 463-0303

Email: nancy.udovic@philips.com

Product Information

Product Name: CT Systems

Product Type: NA

Product Model Number: Spectral CT 7500, Spectral CT MDR, Spectral CT v5.2, Spectral CT v5.2 RT

General Description: Multiple component system for the provision of Computed Tomography medical diagnostic imaging.

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

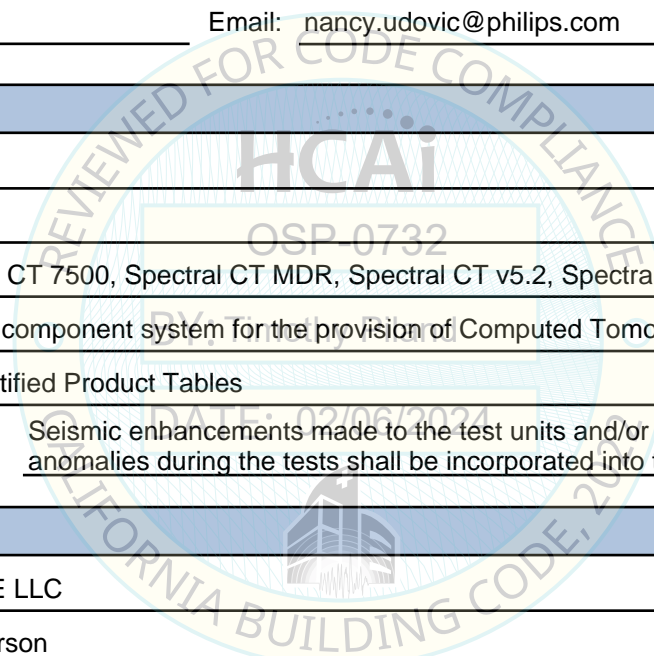
Contact Person: Jonathan Roberson

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

Telephone: (909) 606-7622

Email: jon@EASECo.com

Title: Principal Engineer





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FACILITIES DEVELOPMENT DIVISION**

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

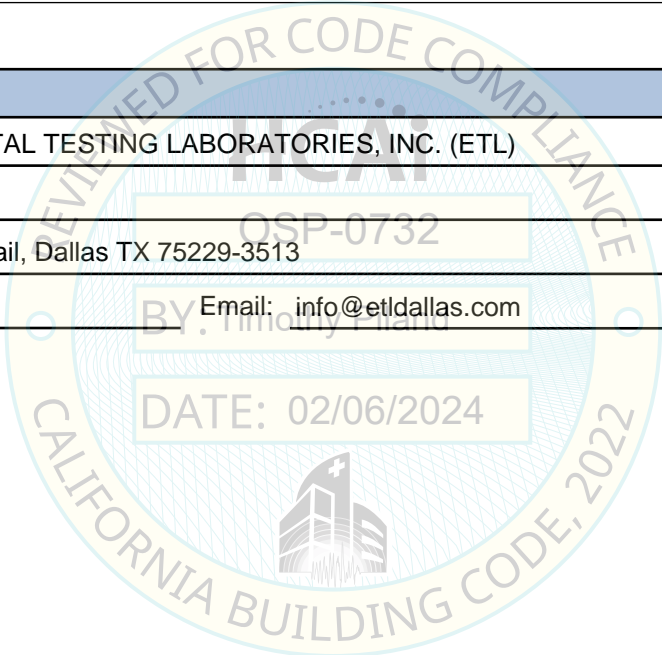
Company Name: EASE LLC
Name: Jonathan Roberson California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709
Telephone: (951) 295-1892 Email: jon@EASECo.com

Certification Method

GR-63-Core ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
 Other (Please Specify): _____

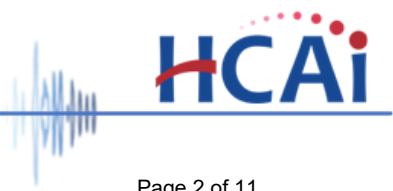
Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: _____
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: info@etldallas.com



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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY





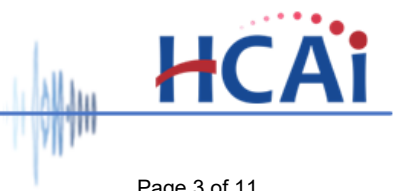
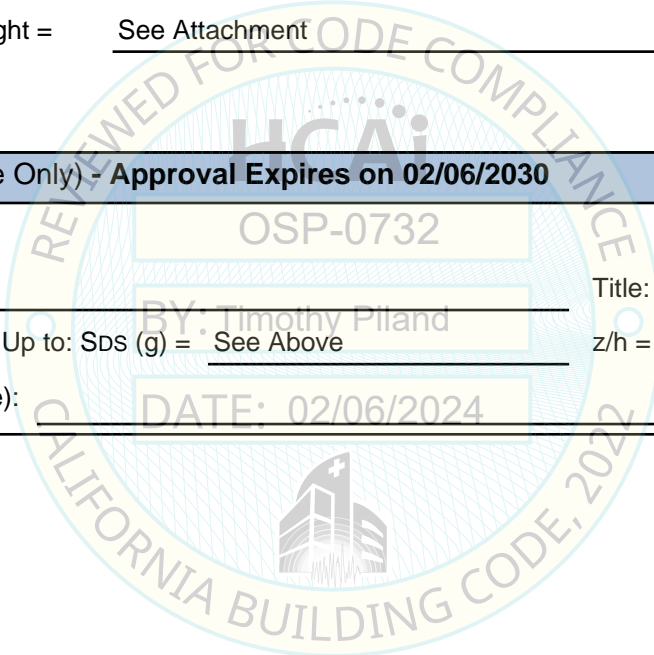
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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) =	See Attachment 1, Table 1
SDS (Design spectral response acceleration at short period, g) =	2.0 at z/h = 1; 2.5 at z/h = 0
a_p (Amplification factor) =	See Attachment 1, Table 1
R_p (Response modification factor) =	See Attachment 1, Table 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 02/06/2030

Date:	<u>2/6/2024</u>	OSP-0732	
Name:	<u>Timothy Piland</u>	BY: Timothy Piland	Title: <u>Senior Structural Engineer</u>
Special Seismic Certification Valid Up to: SDS (g) =	<u>See Above</u>	DATE: 02/06/2024	z/h = <u>See Above</u>
Condition of Approval (if applicable):	<u></u>		



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 1:

Manufacturer		Philips Healthcare										S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0		
System		Spectral CT 7500 (459801665291), Spectral CT MDR (300010046251), Spectral CT v5.2 (300011932831), Spectral CT v5.2 RT (300011227501).												
Component	Identification Number	Approx. Dimensions [In.]			Weight [LB.]	Mount	Basis [1]	F _P /W _P	a _P	R _P	Ω ₀			
		W	D	H										
GANTRY														
Spectral Gantry [2]	459801665271	95.5	39.9	80.0	5134	Rigid Base	UUT-2102-1	2.40 1.13	1	1 ½	2			
PATIENT TABLES														
Patient Couch [3]	459801658612	20.3	120.5 - 215.7	18.7 - 45.4	1413 [4]	Rigid Base	UUT-2102-2	2.40 1.13	1	1 ½	2			
POWER DISTRIBUTION														
PDU with Integrated DC-DC Converter (Spellman High Voltage Electronics)	459801051621	27.7	32.2	66.4	1264	Rigid Base	UUT-1702-1	1.44 1.13	1	2 ½	2			
CONSOLES														
Spectral Gen 5.3 Host w/ Host Rack, including: [7]	459801902082	12.8	35.6	29.8	189	Rigid Base	UUT-2102-4	1.44 1.13	1	2 ½	2			
CT Gen 5.3 Host, Z4	459801898441													
Spectral Gen 5.3 Host w/ Host Rack, including: [7]	300012777511	12.8	35.6	29.8	189	Rigid Base	SAME	1.44 1.13	1	2 ½	2			
CT Gen 5.3 Host, Z4	300012777581													
Spectral CIRS HW 4 Computers w/ Rack + UPS, including: [8]	300008719801	23.6	43.0	79.8	805	Wall / Floor	UUT-2102-3	1.44 1.13	1	2 ½	2			
CT Gen 5.3 CIRS Master Z8 w/ ACQ	459801592022													
CT Gen 5.3 CIRS Compute Z8 (Quantity: 3)	459801592013													
Staco UniStar VP 6kVA UPS w/ SNMP	459800913091													
Staco UniStar UPS Extended Run Battery	459800844121													
12-Port 10G-Gigabit Network Switch	300008118791													

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 2 OF 3

TABLE 1:

Manufacturer		Philips Healthcare							S _{Ds} = 2.0 at z/h = 1 S _{Ds} = 2.5 at z/h = 0		
System		Spectral CT 7500 (459801665291), Spectral CT MDR (300010046251), Spectral CT v5.2 (300011932831), Spectral CT v5.2 RT (300011227501).									
Component	Identification Number	Approx. Dimensions [In.]			Weight [LB.]	Mount	Basis ^[1]	F _F /W _P	a _P	R _P	Ω ₀
		W	D	H							
Spectral CIRS HW 4 Computers w/ Rack + UPS, including: ^[8]	300008719802	23.6	43.0	79.8	805	Wall / Floor	INT	1.44 1.13	1	2 ½	2
CT Gen5.3 CIRS Master Z8 w/ ACQ	459801592023										
CT Gen5.3 CIRS Compute Z8 (Quantity: 3)	459801592014										
Staco UniStar VP 6kVA UPS w/ SNMP	459800913091										
Staco UniStar UPS Extended Run Battery	459800844121										
12-Port 10G-Gigabit Network Switch	300008118791										
Spectral CIRS HW 2 Computers w/ Rack + UPS, including: ^[8]	300008718821	23.6	43.0	79.8	701	Wall / Floor	INT	1.44 1.13	1	2 ½	2
CT Gen5.3 CIRS Master Z8 w/ ACQ	459801592022										
CT Gen5.3 CIRS Compute Z8	459801592013										
Staco UniStar VP 6kVA UPS w/ SNMP	459800913091										
Staco UniStar UPS Extended Run Battery	459800844121										
12-Port 10G-Gigabit Network Switch	300008118791										
Spectral CIRS HW 2 Computers w/ Rack + UPS, including: ^[8]	300008718822	23.6	43.0	79.8	701	Wall / Floor	INT	1.44 1.13	1	2 ½	2
CT Gen5.3 CIRS Master Z8 w/ ACQ	459801592023										
CT Gen5.3 CIRS Compute Z8	459801592014										
Staco UniStar VP 6kVA UPS w/ SNMP	459800913091										
Staco UniStar UPS Extended Run Battery	459800844121										
12-Port 10G-Gigabit Network Switch	300008118791										

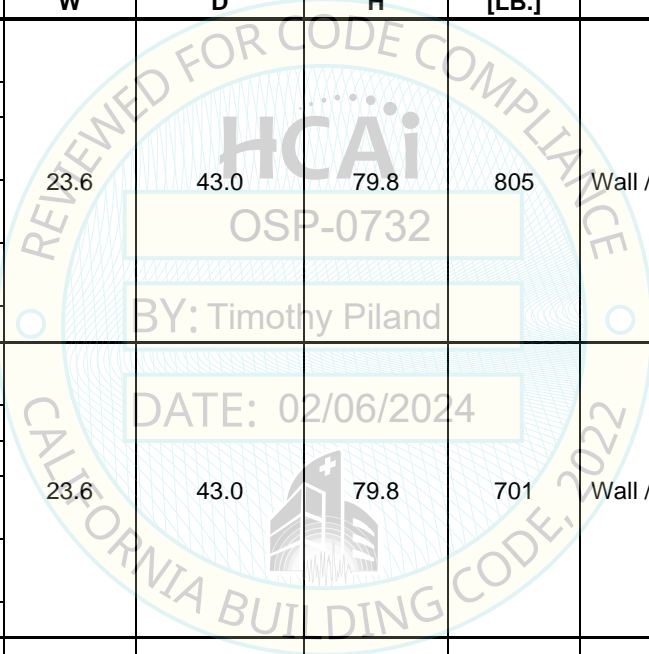




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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS


TABLE 1:


Manufacturer		Philips Healthcare									
System		Spectral CT 7500 (459801665291), Spectral CT MDR (300010046251), Spectral CT v5.2 (300011932831), Spectral CT v5.2 RT (300011227501).									
		S _{Ds} = 2.0 at z/h = 1 S _{Ds} = 2.5 at z/h = 0									
Component	Identification Number	Approx. Dimensions [In.]			Weight [LB.]	Mount	Basis [1]	F _F /W _P	a _P	R _P	Ω ₀
		W	D	H							
IQon Gen 5.3 CIRS TL_Rack / UPS / ACQ	459801498651	23.6	43.0	79.8	695	Wall / Floor	UUT-1805-1	1.44 1.13	1	2 ½	2
CT Gen5.3 IQon CIRS Master, HP Z8	459801498681										
CT Gen5.3 IQon CIRS Compute, HP Z8	459801498691										
CT Gen5.3 IQon CIRS Compute, HP Z8	459801498691										
Staco UniStar VP 6kVA UPS w/ SNMP	459800913091										
Staco UniStar UPS Extended Run Batt	459800844121										
MISCELLANEOUS											
Compressor - 50/60 HZ (JUN AIR)	459800191992	21.4	29.0	30.8	200	Rigid Base	UUT-1503-5	1.44 1.13	1	2 ½	2
Cabinet Compressor - 50/60 Hz (JUN AIR) ^[5]	459800882781	24.3	26.0	33.7	290	Rigid Base	UUT-1503-6	1.44 1.13	1	2 ½	2
CT Box ^[6]	459800842443	15.8	4.0	3.5	4	Countertop Attached	SAME AS UUT-1505-5	1.44 1.13	1	2 ½	2
CT Box ^[6]	459800842444	15.8	4.0	3.5	4	Countertop Attached	SAME AS UUT-1505-5	1.44 1.13	1	2 ½	2
Mounting	<p><u>Rigid Base</u>: free-standing, base-mounted configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p><u>Wall/Floor</u>: combined rigid base and rigid wall mount configuration; base of unit bears on and anchored to attached to a supporting structure with lateral support above the base at a wall.</p> <p><u>Countertop Anchored</u>: unit is anchored to a counter, desk, or other piece of rigid fixed furniture.</p>										
Notes	<p>1. BASIS:</p> <ul style="list-style-type: none"> • UUT - #### - #: Indicates that a unit matching these characteristics was tested as part of this testing program. • SAME indicates component is physically, mechanically, and electrically the same as another test specimen with differences limited to model number, color, and/or software. • INT (Interpolated or Extrapolated) indicates model of equipment not specifically tested for which seismic qualification is established through testing of similar models in the product line. <p>2. Gantry requires use of Philips Seismic Kits 300007455531 and 300008626091.</p> <p>3. Patient Couch requires use of Philips Seismic Kit 300008571511, 300008734871, and 300008487161.</p> <p>4. Patient table weight does not include the 542 lb. patient load present during testing.</p> <p>5. Cabinet Compressor requires use of Philips Seismic Kit 459801067821</p> <p>6. CT Box requires user of Philips Seismic Kit 459801147561</p> <p>7. Gen 5.3 Host w/ Host Rack requires use of Philips Seismic Kit 459801561671</p> <p>8. CIRS requires use of Philips Seismic Kit 459800914065</p> <p>9. <i>Gray italic formatting indicates unit is not a component of system and used as basis for seismic qualification only.</i></p>										


UUT-1503-5 Compressor 50/60 Hz							
<i>Manufacturer:</i> Jun-Air							
<i>Identification:</i> ID No.: 459800191992 Serial No.: 1214800704							
<i>Description:</i> Component of Spectral CT 7500 System Casters removed to allow anchorage of unit to fixture.							
<i>Mounting:</i> Rigid Base (Floor) mounted using (4) – 1/2" dia. SAE J429 Grade 8 bolts							
Dimensions [in]				Lowest Resonant Frequency [Hz]			
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis	
21.42	28.86	30.75	200	21.9	10.6	15.6	
ICC-ES AC156 Shake Table Test Parameters							Code: 2022 CBC
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]	
2.5	1.0	1.5	4.00	3.00	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							

UUT-1503-6 Cabinet Compressor - 50/60 Hz							
<i>Manufacturer:</i> Jun-Air							
<i>Identification:</i> ID No.: 459800882781 Serial No.: 0215803421							
<i>Description:</i> Component of Spectral CT 7500 System Test specimen included 12 ga. mounting bracket & other modifications that are incorporated in Philips seismic kit P/N 459801067821. The Test Specimen was fully populated at time of test.							
<i>Mounting:</i> Rigid Base (Floor) mounted using (4) - 3/8" dia. Grade 8 Allen head cap screws to aluminum interface plate.							
Dimensions [in]				Lowest Resonant Frequency [Hz]			
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis	
24.3	26	33.7	290	6.1	6.3	29.9	
ICC-ES AC156 Shake Table Test Parameters							Code: 2022 CBC
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]	
2.5	1.0	1.5	4.00	3.00	1.68	0.68	
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							

UUT-1505-5 CT Box						
<i>Manufacturer:</i> Philips Healthcare						
<i>Identification:</i> ID No.: 459800842441 Serial No.: 004						
<i>Description:</i> CT Box 459800842443 is the same as 459800842441 CT Box 459800842443 is a component of Spectral CT 7500 System						
<i>Mounting:</i> <u>Countertop (Anchored)</u> using (2) – 1" x 3" 3M Dual Lock reclosable fastener at each of two tapered feet (applied to bottom of foot and test plate).						
Dimensions [in]			Weight [lb]	Lowest Resonant Frequency [Hz]		
Width	Depth	Height		Front - Axis	Side - Axis	Vert - Axis
15.8	4	2.5	4	37.9	>50	33.2
ICC-ES AC156 Shake Table Test Parameters						Code: 2022 CBC
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]
2.0	1.0	1.5	3.20	2.40	1.68	0.68
2.5	0.0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-1702-1 PDU with Integrated DC-DC Converter						
<i>Manufacturer:</i> Spellman High Voltage Electronics Corporation						
<i>Identification:</i> ID No.: 459801051621 Serial No.: 104608488-A00011						
<i>Description:</i> Component of Spectral CT 7500 System Model No.: PDUX4626 CT Power Distribution Unit with Integrated DC-DC Converter						
<i>Mounting:</i> <u>Rigid Base (Floor) mounted</u> using: 0.18" thick 1008 steel bracket (Fy = 43.1 ksi) w/ (4) – M8-class 8.8 bolts to equipment frame (Torque = 10.4 ft-lb) (provided by Spellman) (3) - 3/8" diam. socket head cap screws w/ washers. (Torque = 25 ft-lb) to structure Typical each side of cabinet (2 locations total)						
Dimensions [in]			Weight [lb]	Lowest Resonant Frequency [Hz]		
Width	Depth	Height		Front - Axis	Side - Axis	Vert - Axis
27.7	32.15	66.41	1264	13.8	16.3	14.4
ICC-ES AC156 Shake Table Test Parameters						Code: 2022 CBC
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]
2.0	1	1.5	3.20	2.40	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-1805-1 IQon Gen 5.3 CIRS TL_Rack / UPS / ACQ						
Manufacturer: Philips Healthcare & Hewlett Packard (HP)						
Identification: ID No.: 459801498651 Serial No.: N/A						
Description: <u>Component Included for Interpolation Only</u> Includes the following: Part No. CT Gen5.3 IQon CIRS Master, HP Z8, 459601498681 CT Gen5.3 IQon CIRS Computing, HP Z8, (x2) 459801498691 Each w/ 1 TB NVMe SSD, MZVLB1T0HALR-000H2 Staco UniStar VP 6kVA UPS w/ SNMP, 459800913091 Staco UniStar UPS Extended Run Batt, 459800844121 Philips Healthcare IQon Gen 5.x CIRS Seismic Kit 459800914063 <u>Also included:</u> (Non-standard config.) 2 TB NVMe SSD MZVLB2T0HMLB-000H1						
Mounting: Rigid Wall/Floor using (4) – 5/8" dia. SAE J429 Gr 8 bolts at base and (6) - 1/4" hex washer head, self-tapping, self-threading sheet metal screws to the wall. Manufacturer provided brackets, top and bottom						
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
23.6	43.0	79.8	695	N/A	N/A	N/A
ICC-ES AC156 Shake Table Test Parameters						Code: 2022 CBC
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						


UUT-2102-1 Gantry						
Manufacturer: Philips Medical Systems (Haifa)						
Identification: ID No.: 459801665271 Serial No. 10010						
Description: Component of Spectral CT 7500 System <u>CT Gantry</u> Requires the use of both Philips Seismic Kits 300007455531 (seismic enhanced internal brackets) and 300008626091 (anchor interface hardware).						
Mounting: Rigid Base (Floor) mounted using (8) – 3/4" dia. SAE J429 Grade 5 bolts w/ 1/8" thk standard washer, 0.175" thk x 0.75" x 2" Steel Washer, 0.150" thk x 0.75" x 2" Insulator Washer, 0.175" thk x 0.75" x 2" Steel Washer, eccentric bushing, and mylar sleeve over bolt threads						
Dimensions [in]				Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Weight [lb]	Front - Axis	Side - Axis	Vert - Axis
95.5	39.9	80.0	5134	6.91	11.21	15.79
ICC-ES AC156 Shake Table Test Parameters						Code: 2022 CBC
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]
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-2102-2 Patient Couch							
<i>Manufacturer:</i>		Philips Healthcare (Suzhou) Co., Ltd.					
<i>Identification:</i>		ID No.: 459801658612 Serial No.: 60040					
<i>Description:</i>		Component of Spectral CT 7500 System <u>Patient Couch</u> w/ Foot Pedal (ID No: 459801667081, S/N: 00012) Requires the use of Philips Seismic Kit 300008571511, 300008734871, and 300008487161 which contains anchor washer hardware and tools needed for kit installation. Patient Load of 542 lbs is not included in the weight listed below, but was present during test.					
<i>Mounting:</i>		Rigid Base (Floor) mounted using (6) – 5/8" dia. SAE J429 Grade 5 bolts w/ 0.125" thk x 0.625" ID x 1.75" OD Steel Washer, Nylon 6/6 NAS1515-H12H Washer, 0.125" thk x 0.625" ID x 1.75" OD Steel Washer					
Dimensions [in]				Weight [lb]	Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Front - Axis		Side - Axis	Vert - Axis	
20.3	120.5 – 215.7	18.7 – 45.4	1413		13.21	2.89	5.32
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2022 CBC	
S_{Ds} [G]	z/h	I_p	A_{FLX-H} [G]	A_{RIG-H} [G]	A_{FLX-V} [G]	A_{RIG-V} [G]	
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-2102-3 Spectral CIRS HW 4 Computers w/ Rack + UPS							
<i>Manufacturer:</i>		Philips Healthcare & Hewlett Packard (HP)					
<i>Identification:</i>		ID No.: 459801597593 (as labeled) 300008719801 (as configured) Serial No.: 2943FLWSP87DF00026					
<i>Description:</i>		Component of Spectral CT 7500 System <u>Spectral CIRS HW 4 Computers w/ Rack + UPS, including:</u> CT Gen 5.3 CIRS Master Z8 w/ ACQ (459801592022) CT Gen 5.3 CIRS Compute Z8, QTY: 3 (459801592013) Staco UniStar VP 6kVA UPS w/ SNMP (459800913091) Staco UniStar UPS Extended Run Battery (459800844121) 12-Port 10G-Gigabit Network Switch (300008118791) Requires the use of Philips Seismic Kit 459800914065 which contains mounting bracket hardware.					
<i>Mounting:</i>		Rigid Wall/Floor using (4) – 5/8" dia. SAE J429 Gr 8 bolts at base and (8) - #12 hex washer head, self-tapping, self-threading sheet metal screws to the wall.					
Dimensions [in]				Weight [lb]	Lowest Resonant Frequency [Hz]		
Width	Depth	Height	Front - Axis		Side - Axis	Vert - Axis	
23.6	43.0	79.8	805		N/A	N/A	N/A
ICC-ES AC156 Shake Table Test Parameters						Code: 2022 CBC	
S_{Ds} [G]	z/h	I_p	A_{FLX-H} [G]	A_{RIG-H} [G]	A_{FLX-V} [G]	A_{RIG-V} [G]	
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-2102-4 Spectral Gen 5.3 Host w/ Host Rack							
<i>Manufacturer:</i> Philips Healthcare & Hewlett Packard (HP)							
<i>Identification:</i> ID No.: 459801634081 (labeled) 459801902082 (configured) Serial No.: 7P19007							
<i>Description:</i> Component of Spectral CT 7500 System <u>Spectral Gen 5.3 Host w/Host Rack including:</u> CT Gen 5.3 Host Z4 (459801898441) Weight includes external mounting bracket hardware Requires the use of Philips Seismic Kit 459801561671 which contains mounting hardware.							
<i>Mounting:</i> <u>Rigid Base (Floor) mounted</u> using (4) – 3/8" dia. SAE J429 Grade 5 bolts							
Dimensions [in]				Lowest Resonant Frequency [Hz]			
Width	Depth	Height	Weight [lb]	Side - Axis	Front - Axis	Vert - Axis	
12.8	35.6	29.8	189	28.18	11.64	23.58	
ICC-ES AC156 Shake Table Test Parameters							Code: 2022 CBC
S _{DS} [G]	z/h	I _p	A _{FLX-H} [G]	A _{RIG-H} [G]	A _{FLX-V} [G]	A _{RIG-V} [G]	
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.							

