



APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY	
APPLICATION #:	OSP – 0522

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: PHILIPS HEALTHCARE

Manufacturer's Technical Representative: Yossi Kamhine

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

Telephone: On File Email: On File

Product Information

Product Name: Brilliance iCT

Product Type: Computed Tomography (CT) medical diagnostic imaging system.

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

General Description: Multiple component systems for the provision of Computed Tomography medical diagnostic imaging. Seismic certification is limited to system components listed in Attachment 1 Table 1. Seismic enhancements incorporated into the test units shall be incorporated into the certified units.

Mounting Description: Rigid floor mount

Applicant Information

Applicant Company Name: EASE LLC

Contact Person: JONATHAN ROBERSON, S.E.

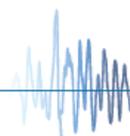
Mailing Address: 5877 Pine Ave. Suite 210, Chino Hills, CA 91709

Telephone: (406) 541-EASE (3273) 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, 2016.

Signature of Applicant:  Date: October 2, 2019

Title: Principal Engineer Company Name: EASE LLC





**DEPARTMENT OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
CAPACITY DEVELOPMENT DIVISION**

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 12/16/15)

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

Company Name: EASE LLC

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

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

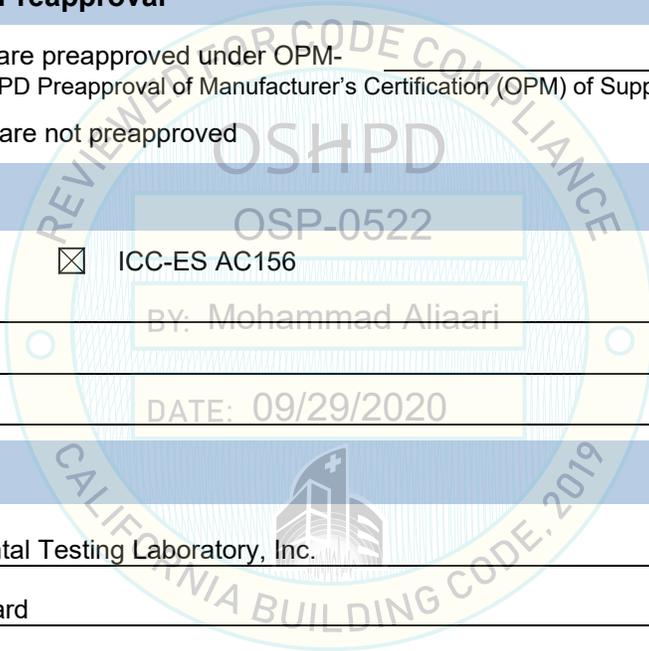
Telephone: (909) 606-7622 Email: j.roberson@easeco.com

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): _____



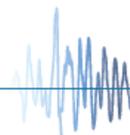
Testing Laboratory

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





DEPARTMENT OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT ACTIVITIES DEVELOPMENT DIVISION

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY
OSH-FD-759 (REV 12/16/15)

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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

S_{DS} (Design spectral response acceleration at short period, g) = 2.50 (z/h = 0); 2.00 (z/h = 1)

a_p (In-structure equipment or component amplification factor) = See Attachment 1

R_p (Equipment or component response modification factor) = See Attachment 1

Ω_0 (System overstrength factor) = See Attachment 1

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1 ($S_{DS}=2.00$); 0 ($S_{DS}=2.50$)

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

Overall dimensions and weight (or range thereof) = See Attachment 1

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

Design Basis of Equipment or Components (V/W) = QSP-0522

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) = DATE: 09/29/2020

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): Attachments 1 & 2

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

Signature: M. Aliaari Date: September 29, 2020

Print Name: Mohammad Aliaari Title: Senior Structural Engineer

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

ATTACHMENT PAGE | 1 OF 5

TABLE 1:

System Manufacturer		PHILIPS HEALTHCARE													
System	Brilliance iCT Elite 256	(459800778191)	[5]	Brilliance iCT SP 128	(459800778221)	[5]									
	Brilliance iCT Elite 256	(459800778192)	[5]	Brilliance iCT SP 128	(459800778222)	[5]									
	Brilliance iCT Elite 256 w/ IMR	(459800778211)	[5]	Brilliance iCT SP 128 w/ IMR	(459800778231)	[5]									
	Brilliance iCT Elite 256 w/ IMR	(459800778213)	[5]	Brilliance iCT SP 128 w/ IMR	(459800778232)	[5]									
COMPONENT	PART NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS [1]	F _P /W _P	S _{DS}	z/h	a _P	R _P	Ω ₀		
GANTRIES															
Gantry, iCT 256	[4][5] 453567449902	108	37.8	78.1	5656	Rigid Base	1705-1	2.40 1.13	2.0 2.5	1 0	1	1 ½	2		
Gantry, iCT 128	[4][5] 453567531112	108	37.8	78.1	5656	Rigid Base	INT								
IQon Gantry	[6] 459800868121	107	37.7	78.10	5669	Rigid Base	1505-1								
PATIENT TABLES															
Patient Support – iCT Standard	[5] 453567480181	22.7	107.4	42 max.	889 [2]	Rigid Base	1705-2	2.40 1.13	2.0 2.5	1 0	1	1 ½	2		
Patient Support – iCT Standard	[5] 453567480183	22.7	107.4	42 max.	889 [2]	Rigid Base	SAME								
Patient Support – iCT Extended	[5] 459800021201	22.7	117.6	42.2 max.	955 [2]	Rigid Base	1505-2								
Extended Patient Sup, BRIL iCT	[5] 459800021203	22.7	117.6	42.2 max.	955 [2]	Rigid Base	SAME								
Patient Support – iCT Bariatric	[5] 453567480191	22.7	107.4	42 max.	981	Rigid Base	INT								
Patient Support – iCT Bariatric	[5] 453567480195	22.7	107.4	42 max.	981	Rigid Base	INT								
Patient Support – Bariatric	[6][8] 453567391361	22.7	117.6	42.2 max.	890 [3]	Rigid Base	1602-2								
CONSOLES															
HOST RACK – IMR (Granite) w/	[5] 459800444981	13	35.3	29.9	172	Rigid Base	1503-A2	1.44 1.13	2.0 2.5	1 0	1	2 ½	2		
Common Host Computer (CRC) (HP z440)	459800918411														
CRC RACK – IMR (Granite) w/	[5] 459800444991	24	35.5	29.9	316	Rigid Base	1503-A1	1.44 1.13	2.0 2.5	1 0	1	2 ½	2		
CIRS S1 (HP z840)	459800912731														
CIRS S2 (HP z840)	459800914211														
CRC RACK – IMR (Granite) w/	[5] 459800444991	24	35.5	29.9	316	Rigid Base	INT	1.44 1.13	2.0 2.5	1 0	1	2 ½	2		
CIRS S1 (HP z840)	459801304961														
CIRS S2 (HP z840)	459801305001														

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 2 OF 5

TABLE 1:

System Manufacturer		PHILIPS HEALTHCARE											
System	Brilliance iCT Elite 256	(459800778191)	[5]	Brilliance iCT SP 128	(459800778221)	[5]							
	Brilliance iCT Elite 256	(459800778192)	[5]	Brilliance iCT SP 128	(459800778222)	[5]							
	Brilliance iCT Elite 256 w/ IMR	(459800778211)	[5]	Brilliance iCT SP 128 w/ IMR	(459800778231)	[5]							
	Brilliance iCT Elite 256 w/ IMR	(459800778213)	[5]	Brilliance iCT SP 128 w/ IMR	(459800778232)	[5]							
COMPONENT	PART 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									
LCC CRC RACK DVI (Granite) w/ [5]	455012005711	24	35.5	29.9	307	Rigid Base	1503-A3	1.44	2.0	1	1	2 ½	2
Common Host Computer (CRC) (HP z440)	459800918411							1.13	2.5	0			
CIRS Computer (HP z840)	459800914091												
LCC CRC RACK DVI (Granite) w/ [5]	455012005711	24	35.6	29.9	307	Rigid Base	INT	1.44	2.0	1	1	2 ½	2
Common Host Computer (CRC) (HP z440)	459800918411							1.13	2.5	0			
CIRS Computer (HP z840)	459801305071												
CRC RACK (Avnet) w/ [7]	459801089011	24	35.6	29.9	318	Rigid Base	INT	1.44	2.0	1	1	2 ½	2
Common Host Computer (CRC) (HP z440)	459800918411							1.13	2.5	0			
CIRS Computer (HP z840)	459801305071												
CRC RACK (Avnet) w/ [6] [7]	459801089011	24	35.6	29.9	318	Rigid Base	1713-1	1.44	2.0	1	1	2 ½	2
Common Host Computer (CRC) (HP z440)	459801304931							1.13	2.5	0			
CIRS Computer (HP z840)	459801305071												
POWER DISTRIBUTION													
Light Weight PDU (Spellman High Voltage Electronics)	459800064812	22	32	48.5	1147	Rigid Base	1505-6	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
CT PDU with Integrated DC-DC Converter (Spellman High Voltage Electronics)	459801051621	27.7	32.15	66.41	1264	Rigid Base	1702-1	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
USER INTERFACE													
CT Box 1 (Vexos) [5]	453567111594	15.8	4	3.5	4	Rigid Base	1705-3	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
CT Box 1 (Vexos) [5]	453567111595	15.8	4	3.5	4	Rigid Base	SAME	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
MISC													
Compressor-JUN AIR 50/60 HZ	459800191992	21.42	28.86	30.75	200	Rigid Base	1503-A5	1.44 1.13	2.0 2.5	1 0	1	2 ½	2

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1:

<i>System Manufacturer</i>		PHILIPS HEALTHCARE											
<i>System</i>	Brilliance iCT Elite 256	(459800778191)	[5]	Brilliance iCT SP 128	(459800778221)	[5]							
	Brilliance iCT Elite 256	(459800778192)	[5]	Brilliance iCT SP 128	(459800778222)	[5]							
	Brilliance iCT Elite 256 w/ IMR	(459800778211)	[5]	Brilliance iCT SP 128 w/ IMR	(459800778231)	[5]							
	Brilliance iCT Elite 256 w/ IMR	(459800778213)	[5]	Brilliance iCT SP 128 w/ IMR	(459800778232)	[5]							
COMPONENT	PART NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F_P/W_P	S_{DS}	z/h	a_P	R_P	Ω₀
		W	D	H									
Cabinet Compressor- JUN AIR 50/60 Hz	[5] 459800882781	24.3	26	33.7	290	Rigid Base	1503-A6	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
<i>Mount</i>	Rigid Base (Floor) Mount: free-standing, base-mounted configuration with component rigidly attached to supporting structure and no lateral support above base.												
<i>Notes</i>	<ol style="list-style-type: none"> BASIS: <ul style="list-style-type: none"> UUT#: Indicates that a unit matching these characteristics was tested. SAME INT (Interpolate/Extrapolate): indicates a model not specifically tested, by which seismic certification is established through evaluation of testing of other, similar models in the product line. Patient table weight does not include the 450-lb. patient load present during testing. Patient table weight does not include the 500-lb. patient load present during testing. Gantry requires use of Philips Healthcare SHIPWITH, GANTRY, & GCX INSTALL, iCT (Part No. 4598 001 92152). Requires use of Philips Healthcare iCT Seismic Hardening kit (Part No. 4598 013 23201). Model is included only for purpose of interpolation, and not used with the CT system systems identified above. Requires use of Philips Healthcare CRC Rack Seismic Package Kit (Part No. 4598 013 57921). Component requires use of Philips Healthcare Seismic Kit (Part No. 4598 008 81561). 												

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2:

System Manufacturer		PHILIPS HEALTHCARE												
System		iCT S 256 with 4.1 Console-Best (459800778193) ^[5] iCT S 256 with 4.1 IMR Console- Best (459800778214) ^[5]												
COMPONENT	PART 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										
GANTRIES														
Gantry, iCT 256 ^{[4][5]}	459801661451	108	37.8	78.1	5656	Rigid Base	SAME AS 1705-1 ^[8]	2.40 1.13	2.0 2.5	1 0	1	1 ½	2	
PATIENT TABLES														
Std Patient Support, iCT Wht ^[5]	453567480184	22.7	107.4	42 max.	889 ^[2]	Rigid Base	SAME AS 1705-2 ^[8]	2.40 1.13	2.0 2.5	1 0	1	1 ½	2	
Patient Support, IQon Extended ^[5]	459800771026	22.7	117.6	42.2 max.	955	Rigid Base	SAME AS 1505-2 ^[8]							
Patient Supt, IQon Bariatric ^[5]	453567480192	22.7	107.4	42 max.	890 ^[3]	Rigid Base	INT							
Patient Support – Bariatric ^{[6][8]}	453567391361	22.7	107.4	25.4 / 42	890 ^[3]	Rigid Base	1602-2							
CONSOLES														
LCC CRC Rack (Avnet) ^[9]	459801540281	24	35	30	309	Rigid Base	1806-3	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	
CT Gen5.3 IDose CIRS, Z8 + ACQ (HP)	459801493311													
Host z4, Kbd, Mouse, CAN, Adaptor (HP)	459801493301													
CRC RACK IMR (Avnet) ^[10]	459801286611	24	35	30	340	Rigid Base	1806-4	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	
CT Gen 5.3 IMR CIRS S1, Z8 + ACQ (HP)	459801626701													
CT Gen 5.3 IMR CIRS S2, Z8 (HP)	459801626691													
HOST RACK IMR (Avnet) ^[11]	459801287961	13	35	30	189	Rigid Base	1806-5	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	
Host z4, Kbd, Mouse, CAN, Adaptor (HP)	459801493301													
POWER DISTRIBUTION														
CT PDU with Integrated DC-DC Converter (Spellman High Voltage Electronics)	459801051621	27.7	32.15	66.41	1264	Rigid Base	1702-1	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	
USER INTERFACE														
CT BOX ASSEMBLY-NO TILT (RoHS) (Vexos) ^[5]	459800842442	15.8	4	3.5	4	Rigid Base	SAME AS 1705-3 ^[8]	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	

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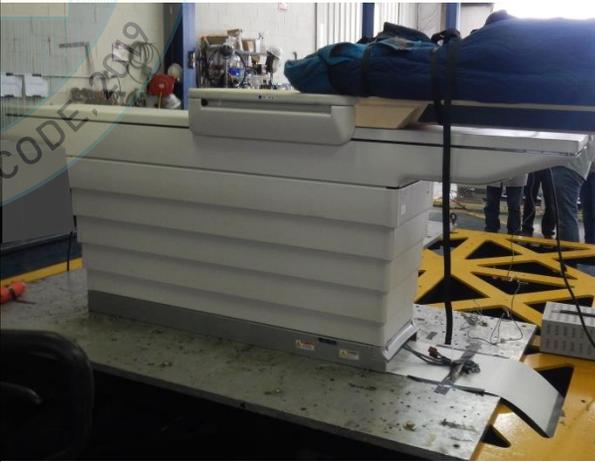
ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2:

<i>System Manufacturer</i>	PHILIPS HEALTHCARE													
<i>System</i>	iCT S 256 with 4.1 Console-Best		(459800778193)		[5]									
	iCT S 256 with 4.1 IMR Console- Best		(459800778214)		[5]									
COMPONENT	PART 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										
MISC														
Compressor-JUN AIR 50/60 HZ	459800191992	21.42	28.86	30.75	200	Rigid Base	1503-A5	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	
Cabinet Compressor-JUN AIR 50/60 Hz [5]	459800882781	24.3	26	33.7	290	Rigid Base	1503-A6	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	
<i>Mount</i>	Rigid Base (Floor) Mount: free-standing, base-mounted configuration with component rigidly attached to supporting structure and no lateral support above base.													
<i>Notes</i>	<ol style="list-style-type: none"> 1. BASIS: <ul style="list-style-type: none"> • UUT#: Indicates that a unit matching these characteristics was tested. • SAME: Model is physically, mechanically & electrically identical to test specimen. Difference is limited to model number, color, or software. • INT (Interpolate/Extrapolate): indicates a model not specifically tested, by which seismic certification is established through evaluation of testing of other, similar models in the product line. 2. Patient table weight does not include the 450-lb. patient load present during testing. 3. Patient table weight does not include the 500-lb. patient load present during testing 4. Gantry requires use of Philips Healthcare SHIPWITH, GANTRY, & GCX INSTALL, iCT (Part No. 4598 001 92152). 5. Requires use of Philips Healthcare iCT Seismic Hardening kit (Part No. 4598 013 23201). 6. Model is included only for purpose of interpolation, and not used with the CT system systems identified above. 7. Requires use of Philips Healthcare CRC Rack Seismic Package Kit (Part No. 4598 013 57921). 8. See Table 1 for referenced UUT. 9. LCC CRC Rack requires use of Philips Seismic Kit (Part No. 459801561661) 10. CRC RACK IMR requires use of Philips Seismic Kit (Part No. 459801561811) 11. HOST RACK IMR requires use of Philips Seismic Kit (Part No. 459801561671) 													

ATTACHMENT 2: TEST SPECIMEN SUMMARY

1705-1 iCT Gantry							
MANUFACTURER: Philips Medical Systems (Cleveland)							
IDENTIFICATION: Model No.: 453567449902							
DESCRIPTION: Component of the Brilliance iCT System 459800192152 SHIPWITH, GANTRY & GCX INSTALL, iCT 459801139791 Gantry/Couch Anchor Bracket Seismic Kit Test specimen modified to address anomalies observed during testing. These modifications subsequently included in updated seismic kit – iCT Seismic Hardening kit (Part No. 4598 013 23201).							
MOUNTING: Rigid Base (Floor) mounted using (8) – 3/4" dia. SAE J429 Grade 8 bolts w/ Philips supplied washer kit.							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis	
108	37.8	78.1	5656	10.8	9.1	40.6	
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS							CODE: 2016 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	3.2	2.4	1.68	0.68	
2.5	0						
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							

1705-2 Patient Support - Standard							
MANUFACTURER: Philips Medical Systems (Cleveland)							
IDENTIFICATION: Model No.: 453567480181							
DESCRIPTION: Component of the Brilliance iCT System Patient Support - Standard including: PIM 459801139791 Gantry/Couch Anchor Bracket Seismic Kit 459800073071 Plinth Group, Couch Base							
MOUNTING: Rigid Base (Floor) mounted using (5) – 1/2" dia. SAE J429 Grade 8 bolts w/ Philips supplied washer kit.							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Longit -Axis	Transv-Axis	Vert-Axis	
22.7	107.4	42	889	24.3	3.4	4.6	
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS							CODE: 2016 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	3.2	2.4	1.68	0.68	
2.5	0						
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.							

ATTACHMENT 2: TEST SPECIMEN SUMMARY

1705- 3 CT Box						
MANUFACTURER: Vexos						
IDENTIFICATION: Model No.: 453567111594						
DESCRIPTION: Component of the Brilliance iCT System 459801147561 (4x) CT Box Seismic Mounting Strip						
MOUNTING: <u>Rigid Base (Floor) mounted</u> using (2) - 1" x 3" 3M Dual Lock SJ3560 Reclosable fastener at each of two tapered feet (applied to bottom of foot and test plate).						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vert-Axis
15.8	4	3.5		4	> 50	> 50
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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.						



1602- 2 Patient Support - Bariatric						
MANUFACTURER: Philips Medical Systems (Cleveland)						
IDENTIFICATION: Model No.: 453567391361						
DESCRIPTION: Component of the Brilliance Big Bore CT system, Brilliance iCT System and others. Philips Healthcare Seismic Kit (Part No. 4598 008 81561)						
MOUNTING: <u>Rigid Base (Floor) mounted</u> using (5) - 5/8" dia GR 8 bolts						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Transv -Axis	Longit-Axis	Vert-Axis
22.7	107.4	36		908	3.3	7.3
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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.						



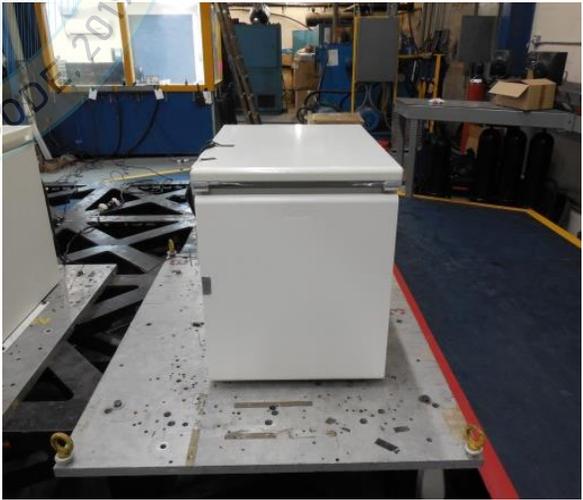
1505- 1 IQon Gantry						
MANUFACTURER: Philips Medical Systems (Cleveland)						
IDENTIFICATION: Model No.: 459800868121						
DESCRIPTION: Component of the IQon CT System Included enhancements not found on then-standard production units which were subsequently included in Philips Healthcare GANTRY/COUCH ANCHOR BRACKET SEISMIC KIT (Part No. 459801139791).						
MOUNTING: Rigid Base (Floor) mounted using (8) – 3/4" dia GR 8 bolts with Philips provided washer assembly						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis
107	37.7	78.10	5669	9.4	8.0	30.6
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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	3.2	2.4	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						



1505- 2 Patient Support – Extended						
MANUFACTURER: Philips Medical Systems (Cleveland)						
IDENTIFICATION: Model No.: 459800021201						
DESCRIPTION: Component of the IQon CT system, Brilliance iCT System and others. Included enhancements not found on then-standard production units which were subsequently included in Philips Healthcare GANTRY/COUCH ANCHOR BRACKET SEISMIC KIT (Part No. 459801139791).						
MOUNTING: Rigid Base (Floor) mounted using (5) – 1/2" dia GR 8 bolts with Philips provided washer assembly.						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Transv -Axis	Longit-Axis	Vertical-Axis
22.7	117.6	41.4	954.5	3.7	7.61	4.2
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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	3.2	2.4	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						



1505-6 Light Weight PDU						
MANUFACTURER: Spellman High Voltage Electronics						
IDENTIFICATION: Model No.: 459800064812						
DESCRIPTION: Component of the IQon CT system and Brilliance iCT System.						
MOUNTING: Rigid Base (Floor) mounted using (4) - 3/8" dia ASTM A574 Socket Head Cap Screws through (2) - 4" x 3.75" x 0.179" x 2'-1" ASTM A1008/A1008M steel mounting brackets provided by manufacturer. Each bracket connected to cabinet with (4) - 3/8-16 x 1" full thread, SAE J429 grade 5 bolts & flat washer. (Torque =26 ft-lb)						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis
22	32	48.5	1147	10.1	16.7	23.8
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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.						

1503-A1 CRC RACK IMR						
MANUFACTURER: Philips Medical Systems (Cleveland)						
IDENTIFICATION: Rack 459800444991 Rev C CIRS S1 459800912731 CIRS S2 459800914211						
DESCRIPTION: CRC RACK IMR including: <ul style="list-style-type: none"> CIRS S1 (CIRS, HP z840 E5-2630v3 4Drv, SN5BP, ACQ4e) CIRS S2 (CIRS, HP z840 E5-2630v3 No Raid, SN5BP) Gen 5.X Console Seismic Kit (REF: 4598 008 81561) <p>The Test Specimen was fully populated at time of test.</p>						
MOUNTING: Rigid Base (Floor) mounted using (4) -3/8" dia. ASTM A574 Socket Head Cap Screws						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis
24.0	35.5	29.9	316	8.1	6.6	9.2
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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.						

ATTACHMENT 2: TEST SPECIMEN SUMMARY

1503-A2 Host Rack - IMR						
MANUFACTURER: Philips Medical Systems (Cleveland)						
IDENTIFICATION: Rack 459800444981 Rev D Common Host 459800918411						
DESCRIPTION: Host Rack - IMR including: Common Host Computer (CRC) (Host HP z440, CAN, Adaptor) Gen 5.X Console Seismic Kit (REF: 4598 008 81561) The Test Specimen was fully populated at time of test.						
MOUNTING: <u>Rigid Base (Floor) mounted</u> using (4) -3/8" dia. ASTM A574 Socket Head Cap Screws to aluminum interface plate.						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis
13.0	35.3	29.9	172	8.3	3.9	25.1
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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.						

1503-A3 LCC CRC RACK DVI DATE: 09/29/2020						
MANUFACTURER: Philips Medical Systems (Cleveland)						
IDENTIFICATION: Rack 455012005711 Rev B CRC 459800918411 CIRS 459800914091						
DESCRIPTION: LCC CRC RACK DVI consist of : Common Host Computer (CRC) (Host, HP z440, CAN, Adaptor) CIRS Computer (CIRS, HP z840 E5-2620v3 4Drv, SN5BP, ACQ4e) Gen 5.X Console Seismic Kit (REF: 4598 008 81561) The Test Specimen was fully populated at time of test.						
MOUNTING: <u>Rigid Base (Floor) mounted</u> using (4) -3/8" dia. ASTM A574 Socket Head Cap Screws to aluminum interface plate.						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vertical-Axis
24.0	35.5	29.9	307	9.4	5.6	20.8
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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.						

1503-A5 COMPRESSOR-JUN AIR 50/60 HZ						
MANUFACTURER: Jun-Air						
IDENTIFICATION: Model No.: 459800191992						
DESCRIPTION: Component of the IQon CT system and Brilliance iCT System. Casters removed to allow anchorage of unit to fixture. The Test Specimen was fully populated & full of content at time of test.						
MOUNTING: Rigid Base (Floor) mounted using (4) -1/2" dia. grade 8 hex bolts to aluminum interface plate.						
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis
21.42	28.86	30.75	200	21.9	10.6	15.6
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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.						

1503-A6 CABINET COMPRESSOR- JUN AIR 50/60 HZ						
MANUFACTURER: Jun-Air						
IDENTIFICATION: Model No.: 459800882781						
DESCRIPTION: Component of the IQon CT system and Brilliance iCT System. Test specimen included seismic enhancements which are represented in Philips seismic kit P/N 459801067821. The Test Specimen was fully populated & full of content at time of test.						
MOUNTING: Rigid Base (Floor) mounted using (4) -3/8" dia. ASTM A574 Socket Head Cap Screws to aluminum interface plate.						
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis
24.3	26	33.7	290	6.1	6.3	29.9
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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.						

1713-1 CRC RACK (Avnet)						
MANUFACTURER: Philips Healthcare & Avnet Technology Solutions (Tianjin) Ltd.						
IDENTIFICATION: CRC Rack Common Host CIRS						
459801089011		459801304931		459801305071		
DESCRIPTION: CRC RACK (Avnet) including: <ul style="list-style-type: none"> Common Host Computer (CRC) (HP z440): UPD Host z440, Kbd, Mouse, CAN, Adapter CIRS Computer (HP z840): UPD Host z440, Kbd, Mouse, CAN, Adapter CRC Rack Seismic package KIT (459801357921) <p>The Test Specimen was fully populated at time of test.</p>						
MOUNTING: Rigid Base (Floor) mounted using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Longit -Axis	Transv-Axis	Vert-Axis
24.0	35.6	29.9	317.5	12.58	11.54	21.43
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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	3.2	2.4	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						



1702-1 Power Distribution Unit						
MANUFACTURER: Spellman High Voltage Electronics Corporation						
IDENTIFICATION: Model No.: PDUX4626 (Philips Part No. 459801051621)						
DESCRIPTION: Power Distribution Unit CT PDU with Integrated DC-DC Converter						
Unit was full of content during test.						
MOUNTING: Rigid Base (Floor) mounted using: <ul style="list-style-type: none"> 0.18" thick 1008 steel bracket (F_y = 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.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
27.7	32.15	66.41	1264	13.8	16.3	14.4
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
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 maintained structural integrity and remained functional per manufacturer requirement after AC156 test.						



1806-3 Gen 5.3 CRC Rack IMR (Avnet)						
MANUFACTURER: Avnet Technology Solutions (Taijin), Ltd. (Avnet) Hewlett Packard (HP) & Philips Healthcare (Suzhou) Co., Ltd.						
IDENTIFICATION: Part No.: 459801540281 Serial No.: N/A						
DESCRIPTION: Gen 5.3 CRC Rack (Avnet) <u>Includes the following:</u> CT Gen5.3 IDose CIRS, Z8 + ACQ (HP), Part: 459801493311 w/ 1 TB NVMe SSD, Part: MZVLB1T0HALR-000H2 Host z4, Kbd, Mouse, CAN, Adaptor; Part: 459801493301 CT Gen5.3 IDose CIRS, Z8 + ACQ (HP), Part: 459801493311 <u>Also included:</u> 2 TB NVMe SSD, Part: MZVLB2T0HMLB-000H1 Requires Seismic Kit 12NC P/N: 459801561661 The Test Specimen was fully populated at time of test.						
MOUNTING: Rigid Base (Floor) mounted using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Longit -Axis	Transv-Axis	Vert-Axis
24	35	30	309	16.26	22.41	16.87
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 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	3.2	2.4	1.68	0.68
2.5	0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

1806-4 Gen 5.3 CRC Rack IMR (Avnet)						
MANUFACTURER: Avnet Technology Solutions (Taijin), Ltd. (Avnet) Hewlett Packard (HP) & Philips Healthcare (Suzhou) Co., Ltd.						
IDENTIFICATION: 459801286611						
DESCRIPTION: Gen 5.3 CRC Rack IMR (Avnet) (Component of Brilliance and Ingenuity CT Systems) <u>Includes the following:</u> • CT Gen 5.3 IMR CIRS S1, Z8 + ACQ (HP), Part: 459801626701 • CT Gen 5.3 IMR CIRS S2, Z8 (HP), Part: 459801626691 • w/ 1 TB NVMe SSD, Part: MZVLB1T0HALR-000H2 • CT Gen5.3 IQon CIRS Computing Z8, Part: 459801498691 <u>Also included:</u> 2 TB NVMe SSD, Part: MZVLB2T0HMLB-000H1 Requires Seismic Kit 12NC P/N: 459801561811 The Test Specimen was fully populated at time of test.						
MOUNTING: Rigid Base (Floor) mounted using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.						
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
24	35	30	340	15.66	21.63	16.29
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
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 maintained structural integrity and remained functional per manufacturer requirement after AC156 test.						

1806-5 Gen 5.3 Host Rack IMR (Avnet)						
MANUFACTURER:		Avnet Technology Solutions (Taijin), Ltd. (Avnet) Hewlett Packard (HP) & Philips Healthcare (Suzhou) Co., Ltd.				
IDENTIFICATION:		Part No.: 459801287961 Serial No.: AVTHOSTIMR00002				
DESCRIPTION:		Gen 5.3 Host Rack IMR (Avnet) (Component of Brilliance and Ingenuity CT Systems) <u>Includes the following:</u> Host Z4, Kbd, Mouse, CAN, Adaptor (HP), Part: 459801493301 Requires Seismic Kit 12NC P/N: 459801561671				
MOUNTING:		<u>Rigid Base (Floor) mounted</u> using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.				
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
13	35	30	189	36.55	13.03	25.90
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
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 maintained structural integrity and remained functional per manufacturer requirement after AC156 test.						

