APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY	
APPLICATION #:	OSP – 0463

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: **Philips Healthcare**

Manufacturer's Technical Representative: Ren Peter

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

Telephone: +86 21 2412 8165 Email: Peter.Ren@philips.com

Product Information

Product Name: **Ingenuity / Ingenuity Core / Ingenuity Core IMR / Ingenuity Elite / Ingenuity Elite IMR**

Product Type: Computed Tomography (CT) medical 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 for CT functions related to diagnostic assessment of trauma injuries. Seismic enhancements incorporated into the test units shall be incorporated into the certified units.

Mounting Description: See Attachment 1

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: May 25, 2019

Title: Principal Engineer Company Name: EASE LLC

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

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) = **S_{DS} = 2.00 (z/h = 1); S_{DS} = 2.50 (z/h = 0)**

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) =

S_{DS} (Design spectral response acceleration at short period, g) =

S_{D1} (Design spectral response acceleration at 1 second period, g) =

R (Response modification coefficient) =

Ω_0 (System overstrength factor) =

C_d (Deflection amplification factor) =

I_p (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component Natural Frequencies (Hz) =

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No

List of Attachments Supporting Special Seismic Certification

☒ Test Report(s) ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog

☒ Other(s) (Please Specify): Attachments 1 & 2; manufacturer documentation

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

Signature: _____ Date: June 19, 2020

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 MFR.	**Philips Medical Systems Nederland B.V.**			
SYSTEM	**Ingenuity**	(459801601711 / 459800781191)	**Ingenuity Elite**	(459801601691 / 459800781171)
	Ingenuity Core	(459801601671 / 459800760241)	**Ingenuity Elite IMR**	(459801601701 / 459800781161)
	Ingenuity Core IMR	(459801601681 / 459800760271)		

COMPONENT	PART NUMBER	APPROX. DIMENSIONS (IN.) W	D	H	MAX. WT. (LB.)	MOUNT	BASIS [1]	F_P/W_P	S_{DS}	z/h	a_P	R_P	Ω_0
GANTRIES													
Ingenuity CT including:	459800708861	93.5	37	78.9	4300	Rigid Base	UUT 1603-4	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
LH Actuator, Seismic	459800121282												
RH Actuator, Seismic	459800121292												
PATIENT TABLES													
Patient Support, Extended	459800021211	22.7	117.6	41.375	910 [2]	Rigid Base	UUT 1603-5	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
Patient Support, Bariatric	453567391361	22.7	107.4	42.2 max	890 [4]	Rigid Base	UUT 1602-2						
Patient Support, Standard	453567023322	22.7	107.4	42 max.	850	Rigid Base	INT						
Patient Support, iCT Standard [8] [9]	453567480181	22.7	107.4	42 max.	889 [2]	Rigid Base	UUT 1705-2						
CONSOLES													
CRC RACK IMR (Granite) including: [3]	459800444991	24.0	35.5	29.9	316	Rigid Base	UUT 1503-A1	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
CIRS S1 (HP z840)	459800912731												
CIRS S2 (HP z840)	459800914211												
CRC RACK IMR (Granite) including: [3]	459800444991	24.0	35.5	29.9	316	Rigid Base	INT	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
CIRS S1 (HP z840)	459801304961												
CIRS S2 (HP z840)	459801305001												
HOST RACK IMR (Granite) including: [3]	459800444981	13.0	35.3	29.9	172	Rigid Base	UUT 1503-A2	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
Common Host Computer (CRC) (HP z440)	459800918411												
LCC CRC RACK DVI (Granite) including: [3]	455012005711	24.0	35.5	29.9	307	Rigid Base	UUT 1503-A3	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
Common Host Computer (CRC) (HP z440)	459800918411												
CIRS Computer (HP z840)	459800914091												
LCC CRC RACK DVI (Granite) including: [3]	455012005711	24.0	35.5	29.9	307	Rigid Base	INT	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
Common Host Computer (CRC) (HP z440)	459800918411												
CIRS Computer (HP z840)	459801305071												

Table continues next page

TABLE 1:

SYSTEM MFR.	**Philips Medical Systems Nederland B.V.**
SYSTEM	**Ingenuity** (459801601711 / 459800781191) **Ingenuity Elite** (459801601691 / 459800781171) **Ingenuity Core** (459801601671 / 459800760241) **Ingenuity Elite IMR** (459801601701 / 459800781161) **Ingenuity Core IMR** (459801601681 / 459800760271)

COMPONENT	PART NUMBER	APPROX. DIMENSIONS (IN.) W	D	H	MAX. WT. (LB.)	MOUNT	BASIS [1]	F_P/W_P	S_{DS}	z/h	a_P	R_P	Ω_0
CRC RACK (Avnet) including: [7]	459801089011	24.0	35.6	29.9	318	Rigid Base	INT	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
Common Host Computer (CRC) (HP z440)	459800918411												
CIRS Computer (HP z840)	459801305071												
CRC RACK (Avnet) including: [7] [9]	459801089011	24.0	35.6	29.9	318	Rigid Base	UUT 1713-1	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
Common Host Computer (CRC) (HP z440)	459801304931												
CIRS Computer (HP z840)	459801305071												
MISC													
CT Box Assembly (Vexos) [6]	453567027195	15.8	4	3.5	4	CTA	UUT 1603-6	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
CT Box Assembly (Grayhill) [6]	459800484611	15.8	4	3.5	4	CTA	UUT 1707-4						

MOUNT	Floor (Rigid Base) Mount: free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base. Countertop Anchored: unit is anchored to a rigid fixed support such (e.g. built-in countertop, desktop, et. al.).
NOTES	1. BASIS: • UUT#: unit matching these characteristics was tested. • INT (Interpolate/Extrapolate): configuration not tested; seismic certification is established through evaluation of testing of similar models in the product line. 2. Patient table weight does not include 450 LB patient load present during testing. 3. Requires use of Philips Healthcare Gen 5.X Console Seismic Kit (Part No. 4598 008 81561 or equivalent.) 4. Patient table weight does not include 500 LB patient load present during testing. 5. NOT USED 6. Component requires use of Philips Healthcare CT Box Seismic Mounting Strip (Part No. 4598 011 47561 or equivalent). 7. Requires use of Philips Healthcare CRC Rack Seismic package KIT (Part No. 4598 013 57921 or equivalent.) 8. Requires use of Philips Healthcare Gantry/Couch Anchor Bracket Seismic Kit (Part No. 4598 011 39791 or equivalent). 9. Model is included only for purpose of interpolation and not used with the CT system(s) identified in this table.

TABLE 2:

SYSTEM MFR.	**Philips Medical Systems Nederland B.V.**
SYSTEM	**Ingenuity** (459801569951) **Ingenuity Elite** (459801560171) **Ingenuity Core** (459801569931) **Ingenuity Elite IMR** (459801560181) **Ingenuity Core IMR** (459801569941)

COMPONENT	PART NUMBER	APPROX. DIMENSIONS (IN.) W	D	H	MAX. WT. (LB.)	MOUNT	BASIS [1]	F_P/W_P	S_{DS}	z/h	a_P	R_P	Ω_0
GANTRIES													
Ingenuity CT including:	459801539071	93.5	37	78.9	4300	Rigid Base	SAME AS UUT 1603-4	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
LH Actuator, Seismic	459800121282												
RH Actuator, Seismic	459800121292												
PATIENT TABLES													
Patient Support, Extended	459800021213	22.7	117.6	41.375	910 [2]	Rigid Base	SAME AS UUT 1603-5	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
Patient Support, Bariatric	453567391363	22.7	107.4	42.2 max	890 [3]	Rigid Base	SAME AS UUT 1602-2						
Patient Support, Standard	453567023325	22.7	107.4	42 max.	850	Rigid Base	INT						
Patient Support, iCT Standard [8] [9]	453567480181	22.7	107.4	42 max.	889 [2]	Rigid Base	UUT 1705-2						
CONSOLES													
LCC CRC Rack (Avnet) [4]	459801540281	24	35	30	309	Rigid Base	UUT 1806-3	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
CT Gen5.3 IDose CIRS, Z8 + ACQ (HP Z8)	459801493311												
Host z4, CAN, Adaptor (HP Z4)	459801493301												
CRC RACK IMR (Avnet) [5]	459801286611	24	35	30	340	Rigid Base	UUT 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 Z8)	459801626701												
CT Gen 5.3 IMR CIRS S2, Z8 (HP Z8)	459801626691												
HOST RACK IMR (Avnet) [6]	459801287961	13	35	30	189	Rigid Base	UUT 1806-5	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Host z4, CAN, Adaptor (HP Z4)	459801493301												
MISC													
CT Box Assembly (Grayhill) [7]	459801478151	15.8	4	3.5	4	CTA	SAME AS UUT 1707-4	1.44 1.125	2.0 2.5	1 0	1	2 ½	2

MOUNT	Floor (Rigid Base): free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base. Countertop Anchored: unit is anchored to a rigid fixed support (e.g. built-in countertop, desktop, floor, et. al.).

Table continues next page

TABLE 2:

SYSTEM MFR.	**Philips Medical Systems Nederland B.V.**													
SYSTEM	**Ingenuity** (459801569951) **Ingenuity Core** (459801569931) **Ingenuity Core IMR** (459801569941)						**Ingenuity Elite** (459801560171) **Ingenuity Elite IMR** (459801560181)							
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**										

NOTES

1. BASIS:
   - UUT#: unit matching these characteristics was tested.
   - SAME: component is identical to tested unit, except for possible variations in part number, color, or software.
   - INT (Interpolate/Extrapolate): configuration not tested; seismic certification is established through evaluation of testing of similar models in the product line.
2. Patient table weight does not include 450 LB patient load present during testing.
3. Patient table weight does not include 500 LB patient load present during testing.
4. LCC CRC Rack requires use of Philips Seismic Kit (Part No. 459801561661 or equivalent).
5. CRC RACK IMR requires use of Philips Seismic Kit (Part No. 459801561811 or equivalent).
6. HOST RACK IMR requires use of Philips Seismic Kit (Part No. 459801561671 or equivalent).
7. Component requires use of Philips Healthcare CT Box Seismic Mounting Strip (Part No. 4598 011 47561 or equivalent).
8. Requires use of Philips Healthcare Gantry/Couch Anchor Bracket Seismic Kit (Part No. 4598 011 39791 or equivalent).
9. Model is included only for purpose of interpolation and not used with the CT system(s) identified in this table.

UUT 1503-A1 CRC RACK IMR

MANUFACTURER: Philips Medical Systems (Cleveland), Inc.

IDENTIFICATION:

Rack	CIRS S1	CIRS S2
459800444991 Rev C	459800912731	459800914211

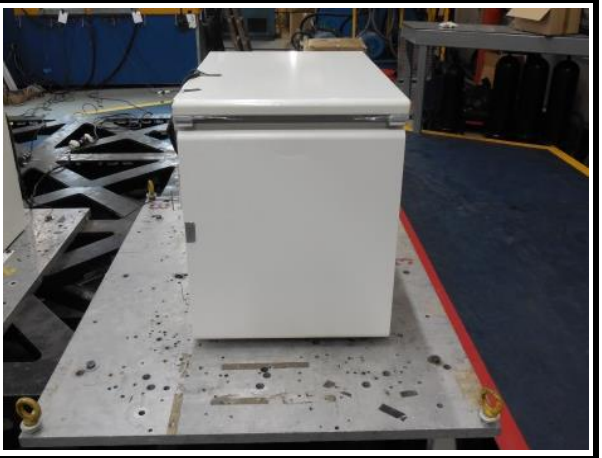
DESCRIPTION:

Component common to multiple Philips CT systems
CRC RACK IMR (Granite) including:

- 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 (Part No. 4598 008 81561)

The Test Specimen was fully populated throughout test.

MOUNTING: Floor mounted using (4) -3/8" diam. ASTM A574 Socket Head Cap Screws to aluminum interface plate.



PROPERTIES:

DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis
24.0	35.5	29.9	316	8.1	6.6	9.2

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	2.5	1.0	1.5	4.00	3.00	1.68	0.68

Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test

UUT 1503-A2 Host Rack - IMR

MANUFACTURER: Philips Medical Systems (Cleveland), Inc.

IDENTIFICATION:

Rack	Common Host
459800444981 Rev D	459800918411

DESCRIPTION:

Component common to multiple Philips CT systems
Host Rack - IMR (Granite) including:

- Common Host Computer (CRC) (Host HP z440, CAN, Adaptor)
- Gen 5.X Console Seismic Kit (Part No. 4598 008 81561)

The Test Specimen was fully populated throughout test.

MOUNTING: Floor mounted using (4) -3/8" diam. ASTM A574 Socket Head Cap Screws to aluminum interface plate.

PROPERTIES:

DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis
13.0	35.3	29.9	172	8.3	3.9	25.1

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	2.5	1.0	1.5	4.00	3.00	1.68	0.68

Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test

UUT 1503-A3 LCC CRC RACK DVI

MANUFACTURER: Philips Medical Systems (Cleveland), Inc.

IDENTIFICATION:

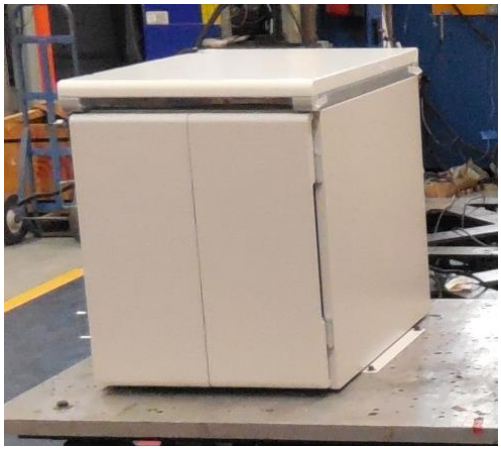
Rack	CRC	CIRS
455012005711 Rev B	459800918411	459800914091

DESCRIPTION: Component common to multiple Philips CT systems
LCC CRC RACK DVI (Granite) including:

- 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 (Part No. 4598 008 81561)

The Test Specimen was fully populated throughout test.

MOUNTING: Floor mounted using (4) -3/8" diam. ASTM A574 Socket Head Cap Screws to aluminum interface plate.



PROPERTIES:

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

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	2.5	1	1.5	4.00	3.00	1.68	0.68

Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test

UUT-1603-4 Ingenuity CT Gantry

MANUFACTURER: Philips Medical Systems (Cleveland), Inc.

IDENTIFICATION: Part No. 459800708861

Serial No. 80680

DESCRIPTION: Component of the Ingenuity CT system.

MOUNTING: Floor mounted using (8) - ¾" diam. SAE J429 Grade 8 bolts

PROPERTIES:

DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vertical-Axis
93.5	37	78.9	4336	7.0	6.5	22.2

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 2016	ICC-ES AC156	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 the ICC-ES AC 156 test

UUT-1603-5 Patient Support - Extended

MANUFACTURER:	Philips Healthcare (Suzhou) Co., Ltd.
IDENTIFICATION:	Part No. 459800021211
DESCRIPTION:	Component of the Ingenuity CT system. Type No.: 459800722541REV: C (Label 1) Part No. 459800778261 REV: B (Label 2)
MOUNTING:	Floor mounted using (5) - 5/8" diam. SAE J429 Grade 8 bolts

PROPERTIES:

DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vertical-Axis
22.7	117.6	41.375	918 + 450 patient	7	24.5	4.4

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 2016	ICC-ES AC156	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 the ICC-ES AC 156 test

UUT-1603-6 Ingenuity CT Box

MANUFACTURER:	Philips Medical Systems (Cleveland), Inc.& Vexos
IDENTIFICATION:	Part No. 453567027195 Rev:F Serial No. 232
DESCRIPTION:	Component of the Ingenuity CT system.
MOUNTING:	Floor mounted using (2) – 2" x 1" 3M "Dual Lock" reclosable fasteners at each of two tapered feet.

PROPERTIES:

DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vertical-Axis
15.8	4	3.5	4	22.4	>50	>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 2016	ICC-ES AC156	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 the ICC-ES AC 156 test

UUT-1602-2 Patient Support, Bariatric

MANUFACTURER:	Philips Healthcare (Suzhou) Co., Ltd.
IDENTIFICATION:	Part No. 453567391361 Serial No. 921012
DESCRIPTION:	Component of the Brilliance Big Bore CT & Ingenuity CT systems.
MOUNTING:	Floor mounted using (5) – 5/8" diam. SAE J429 Grade 8 bolts

PROPERTIES:

DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis
22.7	107.4	36	908	3.3	7.3	4.7

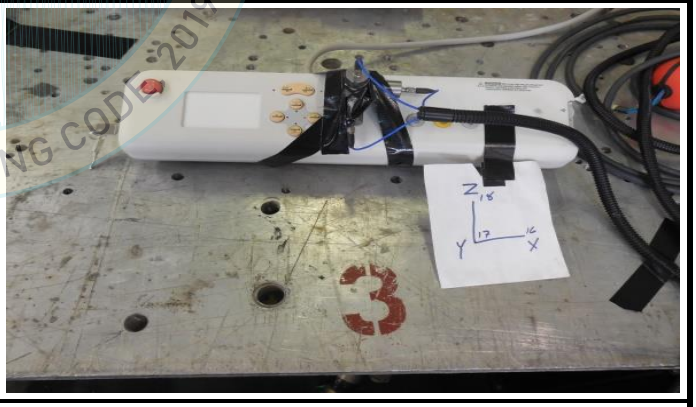
SHAKE TABLE TEST PARAMETERS

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 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20 2.50	2.40 1.00	1.34 1.68	0.54 0.68

Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test

UUT-1707-4 CT Box

MANUFACTURER:	Philips Medical Systems (Cleveland), Inc.& Grayhill Electronics (Shenzhen) Co.
IDENTIFICATION:	Part No. 459800484611 Serial No. 000841
DESCRIPTION:	Component of the Brilliance Big Bore CT & Ingenuity CT systems.
MOUNTING:	Rigid Base mounted using (2) – Philips Healthcare CT Box Seismic Mounting Strip (P/N 459801147561) at each of two legs.



PROPERTIES:

DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis
15.8	4	3.5	4	>50	>50	>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 2016	ICC-ES AC156	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 the ICC-ES AC 156 test

UUT1705- 2 Patient Support – Standard

MANUFACTURER:	Philips Medical Systems (Cleveland), Inc.
IDENTIFICATION:	Part No.: 453567480181
DESCRIPTION:	Component of the Brilliance iCT & Ingenuity CT systems Patient Support - Standard including: PIM 459801139791 Gantry/Couch Anchor Bracket Seismic Kit 459800073071 Plinth Group, Couch Base
MOUNTING:	Rigid Base (Floor) mounted using (5) – ½" diam. 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 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 1713-1 CRC RACK (Avnet)

MANUFACTURER:	Philips Medical Systems (Cleveland), Inc. & Avnet Technology Solutions (Tianjin) Ltd.		
IDENTIFICATION:	CRC Rack	Common Host	CIRS
	459801089011	459801304931	459801305071
DESCRIPTION:	Component common to multiple Philips CT systems CRC RACK (Avnet) including: • 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) The Test Specimen was fully populated throughout test.		
MOUNTING:	Floor mounted using (4) -3/8" diam. SAE J429 Grade 8 to aluminum interface plate.		

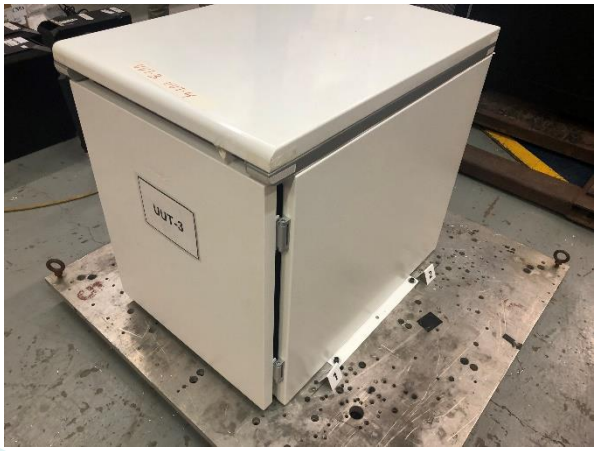
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Longit -Axis	Transv-Axis	Vert-Axis
24.0	35.6	29.9	317.5	12.58	11.54	21.43

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 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 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) Component of Big Bore, iCT and Ingenuity CT systems Includes the following: 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 Also included: 2 TB NVMe SSD, Part: MZVLB2T0HMLB-000H1 **Requires Seismic Kit 12NC P/N: 459801561661** Test unit was fully populated throughout test.
MOUNTING:	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 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 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:	Part No. 459801286611
DESCRIPTION:	Gen 5.3 CRC Rack IMR (Avnet) Component of Big Bore, iCT and Ingenuity CT systems Includes the following: 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 Also included: 2 TB NVMe SSD, Part: MZVLB2T0HMLB-000H1 **Requires Seismic Kit 12NC P/N: 459801561811** Test unit was fully populated throughout test.
MOUNTING:	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 — 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	3.20	2.40	1.68	0.68

Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.

UUT 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 Big Bore, iCT 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** Test unit was fully populated throughout test.
MOUNTING:	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
13	35	30	189	36.55	13.03	25.90

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	3.20	2.40	1.68	0.68

Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.