



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT  
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0472

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: IQon CT System

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 system for the provision of Computed Tomography medical diagnostic imaging. Seismic enhancements made to the test units and modifications required to address the anomalies observed during the tests 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

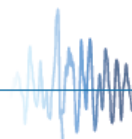
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: 

Date: October 2, 2019

Title: Principal Engineer

Company Name: EASE LLC





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

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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](mailto: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): \_\_\_\_\_

BY: Mohammad Aliaari

DATE: 09/28/2020

**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](mailto:brady@etldallas.com)



# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

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) = See Attachment 1

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

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

$\Omega_0$  (System overstrength factor) = See Attachment 1

$I_p$  (Importance factor) = 1.5

$z/h$  (Height factor ratio) = See Attachment 1

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) = Mohammad Aliaari

$\Omega_0$  (System overstrength factor) = \_\_\_\_\_

$C_d$  (Deflection amplification factor) = DATE: 09/28/2020

$I_p$  (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

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

Signature: M. Aliaari Date: September 28, 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**

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**TABLE 1:**

System Mfr	PHILIPS HEALTHCARE												
System	IQon CT (459800868131)												
Component	Part No.	Approx. Dimensions (in.)			Wt. (lb.)	Mount	Basis <sup>[1]</sup>	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>
		W	D	H									
GANTRIES													
IQon Gantry <sup>[5]</sup>	459800868121	107	37.7	78.10	5,669	Floor	UUT-1	2.40 1.13	2.0 2.5	1 0	1	1 ½	2
PATIENT TABLES													
Patient Support – Extended <sup>[5]</sup>	459800021201	22.7	117.6	42.2 max.	955 <sup>[2]</sup>	Floor	UUT-2	2.40 1.13	2.0 2.5	1 0	1	1 ½	2
Patient Support – Extended <sup>[5]</sup>	459800771026	22.7	117.6	42.2 max.	955	Floor	SAME						
Patient Support – Extended <sup>[5]</sup>	459800771027	22.7	117.6	42.2 max.	955	Floor	SAME						
Patient Support – Bariatric <sup>[11][8]</sup>	453567391361	22.7	107.4	25.4 / 42	890 <sup>[10]</sup>	Floor	UUT 1602-2						
Patient Support – IQon Bariatric <sup>[5]</sup>	453567480192	22.7	107.4	42	981	Floor	INT						
Patient Support – IQon Bariatric <sup>[5]</sup>	453567480194	22.7	107.4	42	981	Floor	INT						
Patient Support – iCT Standard <sup>[9][8]</sup>	453567480181	22.7	107.4	42	889 <sup>[2]</sup>	Floor	UUT 1705-2						
CONSOLES													
Host Rack including: <sup>[3]</sup>	459800444981	13.0	35.3	29.9	169	Floor	UUT-3	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Common Host (Dell T3600 E5-1620 3.6GHz non TPM 4TB)	459800842981												
Host Rack including: <sup>[3]</sup>	459800444981	13.0	35.3	29.9	165	Floor	UUT- A1						
Common Host (IQon Host HP z440, CAN)	459801127401												
Host Rack including: <sup>[3]</sup>	459800444981	13.0	35.3	29.9	165	Floor	SAME						
Common Host (IQon Host HP z440, 64 GB, CAN)	459801308241												

Table continues next page



**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

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**TABLE 1:**

System Mfr	PHILIPS HEALTHCARE												
System	IQon CT (459800868131)												
Component	Part No.	Approx. Dimensions (in.)			Wt. (lb.)	Mount	Basis <sup>[1]</sup>	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>
		W	D	H									
IQon CT System CIRS Rack including: <sup>[4]</sup>	459800873621	23.6	42	79.8	783	Wall/Floor	UUT-4	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
CIRS S3 (Dell T620 No RAID E5-2660 K20 GPU)	459800456102	19	26.5	8.5									
CIRS S2 (Dell T620 No RAID E5-2660 K20 GPU)	459800456102	19	26.5	8.5									
CIRS S1 (Dell T620 E5-2660/5 disk/H710/GPU)	459800456082	19	26.5	8.5									
Console UPS (Staco UniStar)	459800913091	17.25	23	5.4									
UPS battery (Staco UniStar)	459801029431	17.25	24	5.4									
IQon CT System CIRS Rack including: <sup>[4]</sup>	459801156031	23.6	43	79.8	713	Wall/Floor	UUT-A2	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
CIRS S3 (IQon HP z840 E5-2630v3 No Raid S2/S3)	459801112481	19	22	8.5									
CIRS S2 (IQon HP z840 E5-2630v3 No Raid S2/S3)	459801112481	19	22	8.5									
CIRS S1 (IQon HP z840 E5-2630v3 6 Drv S1)	459801112471	19	22	8.5									
Console UPS (Staco UniStar)	459800913091	17.25	23	5.4									
UPS battery (Staco UniStar)	459800844121	17.25	24	5.4									
POWER DISTRIBUTION													
Light Weight PDU (Spellman High Voltage Electronics)	459800064812	22	32	48.5	1147	Floor	UUT-6	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
MISC													
IQon CT Box <sup>[6]</sup>	459800842441	15.8	4	2.5	4	CTA	UUT-5	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
IQon CT Box <sup>[6]</sup>	459800842442	15.8	4	2.5	4	CTA	SAME						
Compressor – JUN AIR 50/60 Hz	459800191992	21.42	28.86	30.75	200	Floor	UUT-8						
Cabinet Compressor – JUN AIR 50/60 Hz <sup>[7]</sup>	459800882781	24.3	26	33.7	290	Floor	UUT-9						
Mount	Floor (Rigid Base): free-standing, base-mounted configuration with the component rigidly attached to a supporting structure and no lateral support above the base. CTA (Countertop Anchored): refers to a condition where the unit is anchored to a counter, desk, or other piece of rigid fixed furniture. Wall/Floor Mounted refers to a condition where the unit bears on, and is anchored directly to the supporting floor. In addition, lateral restraint anchoring the unit to an adjacent wall or other supporting structure is provided along the height of the equipment.												

Table continues next page

**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

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**TABLE 1:**

System Mfr	PHILIPS HEALTHCARE												
System	IQon CT (459800868131)												
Component	Part No.	Approx. Dimensions (in.)			Wt. (lb.)	Mount	Basis <sup>[1]</sup>	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>
		W	D	H									
Notes	<div><div>1. BASIS:</div><div><div><div>• UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program.</div><div>• SAME: Model is physically, mechanically &amp; electrically identical to test specimen. Difference is limited to model number, color, or software.</div></div></div><div>2. Patient table weight does not include 450 lb. patient load present during testing.</div><div>3. Requires use of Philips Healthcare IQon GEN 5.1 HOST SEISMIC KIT (Part No. 459801148053).</div><div>4. Requires use of Philips Healthcare IQon GEN 5.x CIRS SEISMIC KIT (Part No. 459800914063).</div><div>5. Requires use of Philips Healthcare GANTRY/COUCH ANCHOR BRACKET SEISMIC KIT (Part No. 459801139791).</div><div>6. Requires use of Philips Healthcare CT BOX SEISMIC (Part No. 459801147561).</div><div>7. Requires use of Philips Healthcare KIT - COMPRESSOR SEISMIC (Part No. 459801067821).</div><div>8. Component is not part of the IQon CT system and is included only to establish a basis for untested models.</div><div>9. Requires use of Philips Healthcare iCT SEISMIC HARDENING KIT (Part No. 459801323201).</div><div>10. Patient table weight does not include 500 lb. patient load present during testing.</div><div>11. Component requires use of Philips Healthcare Seismic Kit (Part No. 4598 008 81561)</div></div>												

BY: Mohammad Allaari

DATE: 09/28/2020

**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

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**TABLE 2:**

System Mfr	PHILIPS HEALTHCARE													
System	IQon CT (459800868134)													
Component	Part No.	Approx. Dimensions (in.)			Wt. (lb.)	Mount	Basis <sup>[1]</sup>	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>	
		W	D	H										
GANTRIES														
IQon Gantry <sup>[5]</sup>	459801662461	107	37.7	78.10	5,669	Floor	SAME AS UUT-1	2.40 1.13	2.0 2.5	1 0	1	1 ½	2	
PATIENT TABLES														
Patient Support – Extended <sup>[5][8]</sup>	459800021201	22.7	117.6	42.2 max.	955 <sup>[2]</sup>	Floor	UUT-2	2.40 1.13	2.0 2.5	1 0	1	1 ½	2	
Patient Support – Extended <sup>[5]</sup>	459800771026	22.7	117.6	42.2 max.	955	Floor	SAME							
Patient Support – Bariatric <sup>[11][8]</sup>	453567391361	22.7	107.4	25.4 / 42	890 <sup>[10]</sup>	Floor	UUT 1602-2							
Patient Support – IQon Bariatric <sup>[5]</sup>	453567480192	22.7	107.4	42	981	Floor	INT							
Patient Support – iCT Standard <sup>[9][8]</sup>	453567480181	22.7	107.4	42	889 <sup>[2]</sup>	Floor	UUT 1705-2							
CONSOLES														
IQon Gen 5.3 Host w/ Host Rack <sup>[3]</sup>	459801496671	13	35	30	189	Floor	UUT 1805-2	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	
IQon Host, Z4 (HP)	459801496981													
IQon Gen 5.3 CIRS TL_Rack / UPS / ACQ <sup>[4]</sup>	459801498651	23.6	43.0	79.8	695	Wall/Floor	UUT 1805-1	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	
CT Gen5.3 IQon CIRS Master, HP Z8	459801498681													
CT Gen5.3 IQon CIRS Computing, HP Z8	459801498691													
CT Gen5.3 IQon CIRS Computing, HP Z8	459801498691													
Staco UniStar VP 6kVA UPS w/ SNMP	459800913091													
Staco UniStar UPS Extended Run Batt	459800844121													
POWER DISTRIBUTION														
Light Weight PDU (Spellman High Voltage Electronics)	459800064812	22	32	48.5	1147	Floor	UUT-6	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS


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TABLE 2:

System Mfr	PHILIPS HEALTHCARE													
System	IQon CT (459800868134)													
Component	Part No.	Approx. Dimensions (in.)			Wt. (lb.)	Mount	Basis <sup>[1]</sup>	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>	
		W	D	H										
MISC														
CT BOX ASSY. NO TILT (RoHS) <sup>[6]</sup>	459800842442	15.8	4	2.5	4	CTA	SAME AS UUT-5	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	
Compressor – JUN AIR 50/60 Hz	459800191992	21.42	28.86	30.75	200	Floor	UUT-8	1.44 1.13	2.0 2.5	1 0	1	2 ½	2	
Cabinet Compressor – JUN AIR 50/60 Hz <sup>[7]</sup>	459800882781	24.3	26	33.7	290	Floor	UUT-9							
Mount	<u>Floor (Rigid Base)</u> : free-standing, base-mounted configuration with the component rigidly attached to a supporting structure and no lateral support above the base. <u>CTA (Countertop Anchored)</u> : refers to a condition where the unit is anchored to a counter, desk, or other piece of rigid fixed furniture. <u>Wall/Floor Mounted</u> refers to a condition where the unit bears on, and is anchored directly to the supporting floor. In addition, lateral restraint anchoring the unit to an adjacent wall or other supporting structure is provided along the height of the equipment.													
Notes	<div>1. BASIS:<ul style="list-style-type: none"><li>• UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program.</li><li>• SAME: Model is physically, mechanically &amp; electrically identical to test specimen. Difference is limited to model number, color, or software.</li></ul></div> <div>2. Patient table weight does not include 450 lb. patient load present during testing.</div> <div>3. Requires use of Philips Healthcare Gen 5.3 Host IMR Rack Seismic Kit P/N: 459801561671.</div> <div>4. Requires use of Philips Healthcare IQon Gen 5.x CIRS Seismic Kit P/N: 459800914063.</div> <div>5. Requires use of Philips Healthcare GANTRY/COUCH ANCHOR BRACKET SEISMIC KIT (Part No. 459801139791).</div> <div>6. Requires use of Philips Healthcare CT BOX SEISMIC (Part No. 459801147561).</div> <div>7. Requires use of Philips Healthcare KIT - COMPRESSOR SEISMIC (Part No. 459801067821).</div> <div>8. Component is not part of the IQon CT system.</div> <div>9. Requires use of Philips Healthcare iCT SEISMIC HARDENING KIT (Part No. 459801323201).</div> <div>10. Patient table weight does not include 500 lb. patient load present during testing.</div> <div>11. Component requires use of Philips Healthcare Seismic Kit (Part No. 4598 008 81561)</div>													

**ATTACHMENT 2: TEST SPECIMEN SUMMARY**

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<b>UUT- 1</b>		<b>IQon Gantry</b>						
<b>MANUFACTURER:</b>		Philips Healthcare						
<b>IDENTIFICATION:</b>		Model No.: 459800868121 Serial No.: 860000						
<b>DESCRIPTION:</b>		Component of the IQon CT System. Included components found in Philips Healthcare GANTRY/COUCH ANCHOR BRACKET SEISMIC KIT (Part No. 459801139791).						
<b>MOUNTING:</b>		Rigid Base using (8) – ¾" dia. SAE J429 Gr 8 bolts with Philips provided washer assembly.						
								
<b>PROPERTIES:</b>								
<b>DIMENSIONS (in.)</b>			<b>Weight (lb.)</b>	<b>LOWEST RESONANT FREQUENCY (Hz.)</b>				
<b>Width</b>	<b>Depth</b>	<b>Height</b>		<b>Side-Axis</b>	<b>Front-Axis</b>	<b>Vertical-Axis</b>		
107	37.7	78.10		9.4	8.0	30.6		
<b>SHAKE TABLE TEST PARAMETERS</b>								
<b>CODE</b>	<b>TEST CRITERIA</b>	<b>S<sub>DS</sub> (g)</b>	<b>z/h</b>	<b>I<sub>p</sub></b>	<b>A<sub>FLX-H</sub> (g)</b>	<b>A<sub>RIG-H</sub> (g)</b>	<b>A<sub>FLX-V</sub> (g)</b>	<b>A<sub>RIG-V</sub> (g)</b>
CBC 2016	ICC-ES AC156	2.0 2.5	1.0 0.0	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.								

<b>UUT- 2</b>		<b>Patient Support – Extended</b>						
<b>MANUFACTURER:</b>		Philips Healthcare						
<b>IDENTIFICATION:</b>		Model No.: 459800021201 Serial No.: 951038						
<b>DESCRIPTION:</b>		Component of the IQon CT System. Patient Support - Standard including: PIM Included enhancements not found on then-production units and subsequently included in Philips Healthcare GANTRY/COUCH ANCHOR BRACKET SEISMIC KIT (Part No. 459801139791).						
<b>MOUNTING:</b>		Rigid Base using (5) – ½" dia. SAE J429 Gr 8 bolts with Philips provided washer assembly to aluminum interface plate.						
								
<b>PROPERTIES:</b>								
<b>DIMENSIONS (in.)</b>			<b>Weight (lb.)</b>	<b>LOWEST RESONANT FREQUENCY (Hz.)</b>				
<b>Width</b>	<b>Depth</b>	<b>Height</b>		<b>Side-Axis</b>	<b>Front-Axis</b>	<b>Vertical-Axis</b>		
22.7	117.6	41.4		3.7	7.61	4.2		
<b>SHAKE TABLE TEST PARAMETERS</b>								
<b>CODE</b>	<b>TEST CRITERIA</b>	<b>S<sub>DS</sub> (g)</b>	<b>z/h</b>	<b>I<sub>p</sub></b>	<b>A<sub>FLX-H</sub> (g)</b>	<b>A<sub>RIG-H</sub> (g)</b>	<b>A<sub>FLX-V</sub> (g)</b>	<b>A<sub>RIG-V</sub> (g)</b>
CBC 2016	ICC-ES AC156	2.0 2.5	1.0 0.0	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: TEST SPECIMEN SUMMARY**

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UUT- 3		Host Rack						
MANUFACTURER:		Philips Healthcare						
IDENTIFICATION:		Model No.: 459800444981						
		Serial No.: 50426S00042						
DESCRIPTION:		Component of the IQon CT System. Common Host (Dell T3600 E5-1620 3.6GHz non TPM 4TB) (model no.: 459800842981) Philips Healthcare IQon Gen 5.1 Host Seismic Kit (Part No. 459801148053)						
MOUNTING:		Rigid Base using (4) – 3/8" dia. ASTM A574 Socket Head Cap Screws to aluminum interface plate.						
								
PROPERTIES:								
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis		
13.0	35.3	29.9	169	34.5	11.2	47.1		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2016	ICC-ES AC156	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- 4		IQon CT System CIRS Rack						
MANUFACTURER:	Philips Healthcare							
IDENTIFICATION:	Model No.: 459800873621							
DESCRIPTION:	Component of the IQon CT System.							
	CIRS S3 (Dell T620 No RAID E5-2660 K20 GPU)	459800456102						
	CIRS S2 (Dell T620 No RAID E5-2660 K20 GPU)	459800456102						
	CIRS S1 (Dell T620 E5-2660/5 disk/H710/GPU)	459800456082						
	Console UPS (Staco UniStar)	459800913091						
	UPS battery (Staco UniStar)	459801029431						
	Test specimen included seismic enhancements not found in then-standard production units which were subsequently released in seismic kit.	459800914063						
MOUNTING:	Wall/Floor using (4) – 5/8" dia. SAE J429 Gr 8 bolts to the floor and (6) - 1/4" hex washer head, self-tapping, self-threading sheet metal screws to the wall. Manufacturer provided brackets, top and bottom							
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Front-Axis	Side-Axis	Vertical-Axis		
23.6	42	79.8	783	12.8	8.0	14.7		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2016	ICC-ES AC156	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.								



**ATTACHMENT 2: TEST SPECIMEN SUMMARY**


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<b>UUT- 5</b>		<b>IQon CT Box</b>						
<b>MANUFACTURER:</b>		Philips Healthcare						
<b>IDENTIFICATION:</b>		Model No.: 459800842441						
		Serial No.: 004						
<b>DESCRIPTION:</b>		Component of the IQon CT System.						
<b>MOUNTING:</b>		Countertop Anchored using (2) – 1" x 3" 3M Dual Lock reclosable fastener at each of two tapered feet (applied to bottom of foot and test plate).						
								
<b>PROPERTIES:</b>								
<b>DIMENSIONS (in.)</b>			<b>LOWEST RESONANT FREQUENCY (Hz.)</b>					
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis		
15.8	4	2.5	4	37.9	>50	33.2		
<b>SHAKE TABLE TEST PARAMETERS</b>								
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2016	ICC-ES AC156	2.0 2.5	1.0 0.0	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.								

<b>UUT- 6</b>		<b>Light Weight PDU</b>						
<b>MANUFACTURER:</b>		Spellman High Voltage Electronics						
<b>IDENTIFICATION:</b>		Model No.: 459800064812						
		Serial No.: 102639659-A01623						
<b>DESCRIPTION:</b>		Component of the IQon CT System.						
<b>MOUNTING:</b>		Rigid base using (4) – 3/8" dia. ASTM A574 Socket Head Cap Screws with manufacturer provided bracket to aluminum interface plate.						
								
<b>PROPERTIES:</b>								
<b>DIMENSIONS (in.)</b>			<b>Weight (lb.)</b>	<b>LOWEST RESONANT FREQUENCY (Hz.)</b>				
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis		
22	32	48.5	1147	10.1	16.7	23.8		
<b>SHAKE TABLE TEST PARAMETERS</b>								
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2016	ICC-ES AC156	2.0 2.5	1.0 0.0	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: TEST SPECIMEN SUMMARY**


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<b>UUT- 8      COMPRESSOR-JUN AIR 50/60 HZ</b>								
<b>MANUFACTURER:</b>	Philips Healthcare							
<b>IDENTIFICATION:</b>	Model No.: 459800191992							
<b>DESCRIPTION:</b>	Component of the IQon CT System. Casters removed to allow anchorage of unit to fixture.							
<b>MOUNTING:</b>	Floor mounted using (4) -1/2" dia. SAE J429 Grade 8 bolts to aluminum interface plate.							
								
<b>PROPERTIES:</b>								
<b>DIMENSIONS (in.)</b>			<b>Weight (lb.)</b>	<b>LOWEST RESONANT FREQUENCY (Hz.)</b>				
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis		
21.42	28.86	30.75		21.9	10.6	15.6		
<b>SHAKE TABLE TEST PARAMETERS</b>								
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2016	ICC-ES AC156	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.								

<b>UUT- 9      CABINET COMPRESSOR- JUN AIR 50/60 HZ</b>								
<b>MANUFACTURER:</b>	Jun-Air							
<b>IDENTIFICATION:</b>	459800882781							
<b>DESCRIPTION:</b>	Component of the IQon CT System. Test specimen included seismic enhancements which are represented in Philips seismic kit P/N 459801067821.  The Test Specimen was fully populated at time of test.							
<b>MOUNTING:</b>	Floor mounted using (4) -3/8" dia. ASTM A574 Socket Head Cap Screws to aluminum interface plate.							
								
<b>PROPERTIES:</b>								
<b>DIMENSIONS (in.)</b>			<b>Weight (lb.)</b>	<b>LOWEST RESONANT FREQUENCY (Hz.)</b>				
Width	Depth	Height		Side-Axis	Front-Axis	Vertical-Axis		
24.3	26	33.7		6.1	6.3	29.9		
<b>SHAKE TABLE TEST PARAMETERS</b>								
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2016	ICC-ES AC156	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**

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UUT- A1		Host Rack						
MANUFACTURER:		Philips Healthcare						
IDENTIFICATION:		Model No.: 459800444981						
		Serial No.: 50565S00123						
DESCRIPTION:		Component of the IQon CT System. Common Host (IQon Host z440, Kbd, Mouse, CAN; model no.:459801127401)  Test specimen included seismic enhancements which are represented in Philips IQon Gen 5.1 Host Seismic Kit (Part No. 459801148053)						
MOUNTING:		Rigid Base using (4) – 3/8” dia. 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		
13.0	35.3	29.9	165	36.1	10.4	37.2		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2016	ICC-ES AC156	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- A2		IQon CT System CIRS Rack						
MANUFACTURER:	Philips Healthcare							
IDENTIFICATION:	Model No.: 459801156031							
DESCRIPTION:	Component of the IQon CT System.							
	CIRS S3 (IQon z840 E5-2630v3 No Raid S2/S3)	459801112481						
	CIRS S2 IQon z840 E5-2630v3 No Raid S2/S3)	459801112481						
	CIRS S1 (IQon z840 E5-2630v3 6 Drv S1)	459801112471						
	Console UPS	459800913091						
	UPS battery	459800844121						
		Test specimen included seismic enhancements subsequently released as Philips Healthcare IQon Gen 5.1 CIRS Seismic Kit	459800914063					
MOUNTING:	Wall/Floor using (4) – 5/8” dia. SAE J429 Gr 8 bolts to the floor and (6) - ¼” hex washer head, self-tapping, self-threading sheet metal screws to the wall. Manufacturer provided brackets, top and bottom							
PROPERTIES:								
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Front-Axis	Side-Axis	Vertical-Axis		
23.6	43	79.8	713	13.1	10.1	26.8		
SHAKE TABLE TEST PARAMETERS								
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (g)	A <sub>RIG-H</sub> (g)	A <sub>FLX-V</sub> (g)	A <sub>RIG-V</sub> (g)
CBC 2016	ICC-ES AC156	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.								



**ATTACHMENT 2: TEST SPECIMEN SUMMARY**

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UUT1705- 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 Gantry/Couch Anchor Bracket Seismic Kit (459801139791) Plinth Group, Couch Base (459800073071)						
MOUNTING: Rigid Base (Floor) mounted using (5) – ½" dia. SAE J429 Grade 8 bolts w/ Philips supplied washer kit to aluminum interface plate.						
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						
S <sub>DS</sub> (G)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (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.						

UUT1602- 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: Rigid Base (Floor) mounted using (5) – 5/8" dia. SAE J429 Grade 8 bolts to aluminum interface plate.						
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Transv -Axis	Longit-Axis	Vert-Axis
22.7	107.4	36		908	3.3	7.3
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						
S <sub>DS</sub> (G)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (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**

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UUT1805-1 IQon Gen 5.3 CIRS TL_Rack / UPS / ACQ						
Manufacturer:		Bynet, Hewlett Packard (HP) & Philips Healthcare (Suzhou) Co., Ltd.				
Identification:		Part No.: 459801498651				
Description:		<div>Gen 5.3 CIRS TL_Rack / UPS / ACQ Component of IQon CT System</div> <div><div>Includes the following:</div><div>Part No.</div><div>CT Gen5.3 IQon CIRS Master, HP Z8,459601498681</div><div>CT Gen5.3 IQon CIRS Computing, HP Z8, (x2)459801498691</div><div>Each w/ 1 TB NVMe SSD,MZVLB1T0HALR-000H2</div><div>Staco UniStar VP 6kVA UPS w/ SNMP,459800913091</div><div>Staco UniStar UPS Extended Run Batt,459800844121</div><div>Philips Healthcare IQon Gen 5.x CIRS Seismic Kit459800914063</div><div>Also included: (Non-standard config.)</div><div>2 TB NVMe SSD,MZVLB2T0HMLB-000H1</div></div>				
Mounting:		Rigid Wall/Floor using (4) – 5/8" dia. SAE J429 Gr 8 bolts at base and (6) - ¼" 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.)	Side-Axis	Front-Axis	Vert-Axis
23.6	43.0	79.8	695	15.2	8.5	27.9
ICC-ES AC156 Shake Table Test Parameters						Code: 2016 CBC
S <sub>DS</sub> (G)	z/h	I <sub>p</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (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.						





UUT1805-2 IQon Gen 5.3 Host w/ Host Rack						
Manufacturer:		Avnet Technology Solutions (Taijin), Ltd. (Avnet) Hewlett Packard (HP) & Philips Healthcare (Suzhou) Co., Ltd.				
Identification:		Part No.: 459801496671				
Description:		Component of IQon CT System  Includes: Host Rack (Avnet) Part No.: 459801496671 IQon Host z4, (HP Z4 Computer) Part No.: 459801496981 Philips Healthcare Gen 5.3 Host IMR Rack Seismic Kit Part No.: 459801561671				
Mounting:		Rigid Base 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	Front-Axis		Side-Axis	Vert-Axis
13.0	35.3	29.9	26.7		8.2	25.8
ICC-ES AC156 Shake Table Test Parameters						Code: 2016 CBC
S <sub>DS</sub> (G)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (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.						

