APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)  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 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) othy J Pland
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 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: <u>j.roberson@easeco.com</u>
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
OCHDE

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

OSHPD

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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
<ul> <li>Supports and attachments are preapproved under OPM-         (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)</li> <li>Supports and attachments are not preapproved</li> </ul>
Certification Method
<ul> <li>☐ Testing in accordance with:</li> <li>☐ Other (Please Specify):</li> <li>☐ OSP-0463</li> </ul>
BY:Timothy J Piland
Testing Laboratory DATE: 06/19/2020
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

OSP-0463





# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes ☐ No
Design Basis of Equipment or Components (F <sub>p</sub> /W <sub>p</sub> ) = See Attachment 1
S <sub>DS</sub> (Design spectral response acceleration at short period, g) = S <sub>DS</sub> = 2.00 (z/h = 1); S <sub>DS</sub> = 2.50 (z/h = 0)
a <sub>p</sub> (In-structure equipment or component amplification factor) = See Attachment 1
R <sub>p</sub> (Equipment or component response modification factor) = See Attachment 1
$Ω_0$ (System overstrength factor) = See Attachment 1
I <sub>p</sub> (Importance factor) = <b>1.5</b>
z/h (Height factor ratio) = 1 (S <sub>DS</sub> = 2.00); 0 (S <sub>DS</sub> = 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 <sub>DS</sub> (Design spectral response acceleration at short period, g) =
S <sub>D1</sub> (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
Ω <sub>0</sub> (System overstrength factor) = By:Timothy J Piland
C <sub>d</sub> (Deflection amplification factor) =
$I_p$ (Importance factor) = 1.5 DATE: $06/19/2020$
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
1/1/02
Signature: Date: June 19, 2020
Print Name: _Timothy J/Piland Title: _SSE
Special Seismic Certification Valid Up to: $S_{DS}(g) = \underline{See \ above} \ z/h = \underline{See \ above}$
Condition of Approval (if applicable):

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





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06/19/2020

#### ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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#### TABLE 1:

SYSTEM MFR. Philips Medical Sys	stems Nederland	B.V.											
SYSTEM Ingenuity Core Ingenuity Core IMF	(45980160171 (45980160167	1 / 4598007 1 / 4598007	60241)			genuity Elite genuity Elite		5980160 <sup>-</sup> 5980160 <sup>-</sup>			,		
	PART	APPROX	. DIMENSI	ONS (IN.)	MAX. WT.								
COMPONENT	NUMBER	W	D	H	(LB.)	MOUNT	BASIS [1]	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	$\Omega_0$
GANTRIES				CORL	ODEC								
Ingenuity CT including:	459800708861		(60		WWWWWW	MA		0.40	0.0	4			
LH Actuator, Seismic	459800121282	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
RH Actuator, Seismic	459800121292			()	4PI)	MY	1000 4	1.10	2.0	U			
PATIENT TABLES		//	2										
Patient Support, Extended	459800021211	22.7	117.6	41.375	910 [2]	Rigid Base	UUT 1603-5						
Patient Support, Bariatric	453567391361	22.7	107.4	42.2 max	890 [4]	Rigid Base	UUT 1602-2	2.40	2.0	1	1	4.1/	4.1/
Patient Support, Standard	453567023322	22.7	107.4	42 max.	850	Rigid Base	INT	1.13	2.5	0	1	1 ½	1 ½
Patient Support, iCT Standard [8] [9]	453567480181	22.7	107.43 Y	42 max.	889 [2]	Rigid Base	UUT 1705-2						
CONSOLES			(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	WWW.AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA									
CRC RACK IMR (Granite) including: [3]	459800444991		WW DA	rr. 06/1	0/2020								
CIRS S1 (HP z840)	459800912731	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 S2 (HP z840)	459800914211	\	2///////		Ŧ		1503-A1	1.125	2.5	0			
CRC RACK IMR (Granite) including: [3]	459800444991		V. V			100							
CIRS S1 (HP z840)	459801304961	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 S2 (HP z840)	459801305001		P			-00		1.123	2.5				
HOST RACK IMR (Granite) including:[3]	459800444981			'A RIII	DING		UUT	1.44	2.0	1			
Common Host Computer (CRC) (HP z440)	459800918411	13.0	35.3	29.9	172	Rigid Base	1503-A2	1.125	2.5	0	1	2 ½	2
LCC CRC RACK DVI (Granite) including: [3]	455012005711						UUT	1.44	2.0	1			
Common Host Computer (CRC) (HP z440)	459800918411	24.0	35.5	29.9	307	Rigid Base	1503-A3	1.125	2.5	0	1	2 ½	2
CIRS Computer (HP z840)	459800914091												
LCC CRC RACK DVI (Granite) including: [3]	455012005711							1.44	2.0	1			
Common Host Computer (CRC) (HP z440)	459800918411	24.0	35.5	29.9	307	Rigid Base	INT	1.125	2.5	Ö	1	2 ½	2
CIRS Computer (HP z840)	459801305071												

Table continues next page



**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS** 

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#### TABLE 1:

SYSTEM MFR.	Philips Medical Sys	stems Nederland	B.V.											
SYSTEM	Ingenuity Ingenuity Core Ingenuity Core IMR	(45980160171 (45980160167 (45980160168	1 / 45980076	60241)			genuity Elite genuity Elite	•	.5980160 <sup>-</sup> .5980160 <sup>-</sup>					
		PART		DIMENSIO	` '	MAX. WT.								
COMPONENT		NUMBER	W	D	H	(LB.)	MOUNT	BASIS [1]	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	$\Omega_0$
CRC RACK (A	vnet) including: [7]	459801089011			COKL	ANF CV								
Common Hos (HP z440)	t Computer (CRC)	459800918411	24.0	35.6	29.9	318	Rigid Base	INT	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
CIRS Compu	ter (HP z840)	459801305071			MCI	JDM								
CRC RACK (A	vnet) including: [7] [9]	459801089011		7./	<b>U</b> D1		11 1 1 Y							
Common Hos (HP z440)	t Computer (CRC)	459801304931	24.0	35.6	29.9 P	-04183	Rigid Base	UUT 1713-1	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
CIRS Compu	ter (HP z840)	459801305071		///// <del>/////</del>										
MISC				///////	T: 41.									
CT Box Assem	nbly (Vexos) [6]	453567027195	15. <mark>8</mark>	///// <sub>4</sub> BY:	113.511	y J Plia	CTA	UUT 1603-6	1.44	2.0	1		0.1/	0
CT Box Assem	nbly (Grayhill) [6]	459800484611	15. <mark>8</mark>	4	3.5	4	CTA	UUT 1707-4	1.125	2.5	0	1	2 ½	2
MOUNT	<ul> <li>INT (Inter</li> <li>Patient table w</li> <li>Requires use of</li> <li>Patient table w</li> <li>NOT USED</li> <li>Component red</li> <li>Requires use of</li> <li>Requires use of</li> <li>Requires use of</li> </ul>		to a rigid fix haracteristic : configurati ude 450 LB   e Gen 5.X C ude 500 LB   s Healthcare e CRC Rack e Gantry/Co	ed support so s was teste on not teste patient load onsole Seis patient load e CT Box Se s Seismic pa uch Anchor	d. d; seismic copresent dur smic Kit (Par present dur eismic Moun ackage KIT ( Bracket Sei	ertification is ing testing. t No. 4598 00 ing testing. ting Strip (Pa Part No. 459 smic Kit (Par	top, desktop established 08 81561 or rt No. 4598 0 8 013 57921 t No. 4598 0	through evaluequivalent.) 011 47561 or or equivalent11 39791 or e	equivaler equivaler	esting of				

**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS** 

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#### TABLE 2:

SYSTEM MFR. SYSTEM	Philips Medical Sys Ingenuity Ingenuity Core Ingenuity Core IMR	(45980156995 (45980156993	1) 1)				genuity Elito genuity Elito		59801560 59801560	,				
		PART		X. DIMENSIC		MAX. WT.		[4]		_			_	
COMPONENT		NUMBER	W	D	H	(LB.)	MOUNT	BASIS [1]	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	$R_P$	$\Omega_0$
GANTRIES		T T			CONTRACTOR	A DO L	71	1			ı	ı	1	I
Ingenuity CT in		459801539071		150			170,	SAME AS	2.40	2.0	1			
LH Actuator,		459800121282	93.5	37	78.9	4300	Rigid Base	UUT 1603-4	1.13	2.5	Ö	1	1 ½	1 ½
RH Actuator,		459800121292		N/	$UD_{1}$	TEU	M Y							
PATIENT TAE	BLES								1		1	1		1
Patient Suppo	rt, Extended	459800021213	22.7	117.6	41.375	-041032	Rigid Base	SAME AS UUT 1603-5						
Patient Suppor	rt, Bariatric	453567391363	22. <mark>7</mark>	107.4	42.2 max	890 [3]	Rigid Base	SAME AS UUT 1602-2	2.40	2.0	1	1	1 ½	1 ½
Patient Suppo	rt, Standard	453567023325	22.7	107.4	42 max.	850	Rigid Base	INT	1.13	2.5	U			
Patient Suppo	rt, iCT Standard [8] [9]	453567480181	22.7	107.4	42 max.	889 [2]	Rigid Base	UUT 1705-2						
CONSOLES				WWW DA	TF: 06/1	9/2020								
LCC CRC Rad	ck (Avnet) [4]	459801540281	\			<i>J12 J2 J2 J2 J2 J2 J2 J2 J</i>								
	Jose CIRS, Z8 + ACQ	459801493311	24	7 35	30	309	Rigid Base	UUT 1806-3	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Host z4, CAN	, Adaptor (HP Z4)	459801493301		/ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\										
CRC RACK IM	IR (Avnet) [5]	459801286611		P			00							
CT Gen 5.3 II ACQ (HP Z8)	MR CIRS S1, Z8 +	459801626701	24	35	1/4 30 UI	340 G	Rigid Base	UUT 1806-4	1.44 1.13	2.0 2.5	1	1	2 ½	2
CT Gen 5.3 II (HP Z8)	MR CIRS S2, Z8	459801626691					Dase		1.13	2.5	U			
HOST RACK I	MR (Avnet) [6]	459801287961	13	35	30	189	Rigid	UUT 1806-5	1.44	2.0	1	1	2 ½	2
Host z4, CAN	, Adaptor (HP Z4)	459801493301	13	33	30	169	Base	001 1806-5	1.13	2.5	0	I	Z 7/2	2
MISC														
CT Box Assem	nbly (Grayhill) [7]	459801478151	15.8	4	3.5	4	СТА	SAME AS UUT 1707-4	1.44 1.125	2.0 2.5	1 0	1	2 ½	2
MOUNT	Floor (Rigid Base): base. Countertop Anchore	_						-	porting st	ructure a	and no lat	eral supp	oort abov	e the

Table continues next page



**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS** 

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#### TABLE 2:

SYSTEM MFR.	Philips Medical Sys	tems Nederland	I B.V.											
SYSTEM	Ingenuity Ingenuity Core Ingenuity Core IMR	(45980156999 (45980156999 (45980156994	31)́			-	jenuity Elite jenuity Elite	•	15980156 15980156	,				
		PART	APPROX	(. DIMENSIO	ONS (IN.)	MAX. WT.								
COMPONENT		NUMBER	W	D	Н	(LB.)	MOUNT	BASIS [1]	F <sub>P</sub> /W <sub>P</sub>	SDS	z/h	a <sub>P</sub>	R <sub>P</sub>	$\Omega_0$
	<ul> <li>SAME: comp</li> <li>INT (Interpol</li> <li>Patient table weig</li> <li>Patient table weig</li> <li>LCC CRC Rack r</li> <li>CRC RACK IMR</li> <li>HOST RACK IMF</li> <li>Component requi</li> <li>Requires use of F</li> </ul>	natching these choonent is identica ate/Extrapolate): ght does not include ght does not include equires use of Phili requires use of Phili R requires use of Philips Helilips Healthcare Of I only for purpose o	I to tested ur configuration e 450 LB patie e 500 LB patie ps Seismic Ki lips Seismic K nilips Seismic dealthcare CT Gantry/Couch	nit, except fo n not tested; nt load preser nt load preser t (Part No. 459 it (Part No. 45 Kit (Part No. 4 Box Seismic I Anchor Bracke	r possible viseismic cer seismic cer nt during testi at during testi 9801561661 9801561811 45980156167 Mounting Stri et Seismic Kit	tification is es ng. ng. or equivalent). or equivalent). 1 or equivalent) p (Part No. 4598 t (Part No. 4598	tablished thr	rough evaluar or equivalent). r equivalent).		ting of sir	milar mod	lels in the	product	line.





#### ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT 1503-A1	CRC RACK IN	/IR						
MANUFACTURER:	Philips Medical Syste	ms (Cleveland),	Inc.					
IDENTIFICATION:	Rack	CIRS	S1	CIRS S2				1000
	459800444991 Rev 0	45980091	2731	459800914211		-		
DESCRIPTION:  MOUNTING:	Component common CRC RACK IMR (Gra CIRS S1 (CIRS ACQ4e) CIRS S2 (CIRS Gen 5.X Conso) The Test Specimen v Floor mounted using Cap Screws to alumin	anite) including: , HP z840 E5-26 , HP z840 E5-26 le Seismic Kit (F vas fully populat (4) -3/8" diam. A	630v3 4E 630v3 No Part No. 4 ed through	Orv, SN5BP, O Raid, SN5BP) 1598 008 81561) ghout test.				
PROPERTIES:			COR	CODEC				
	DIMENSIONS (in.)	IED			LOW	EST RESONAN	IT FREQUENC	SY (Hz.)
Width	Depth	Height	M	Weight (lb.)	Side-Axis	Fron	t-Axis	Vertical-Axis
24.0	35.5	29.9	Ψ.	316	8.1	6	5.6	9.2
SHAKE TABLE TEST I	PARAMETERS	2/	0.9	SP_0463	11/2		•	
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 2013	ICC-ES AC156	2.5	1.0	1.5	4.00	3.00	1.68	0.68
Unit maintained s	tructural integrity and re	mained function	nal per m	anufacturer require	ment after the IC	C <mark>-E</mark> S AC 156 te	est	

UUT 1503-A2	Host Rack - II	MR DA	1 E: 00/	19/2020				
MANUFACTURER:	Philips Medical Syste	ms (Cleveland)	, Inc.	*	6			N.
IDENTIFICATION:	Rack	Common	Host					
	459800444981 Rev D	4598009	18411		00°			
DESCRIPTION:	Component common Host Rack - IMR (Gra  Common Host C Adaptor) Gen 5.X Consol  The Test Specimen w	nite) including: Computer (CRC e Seismic Kit (F	r) (Host HP z	2440, CAN, 8 008 81561)			7	
	····o · ooi opooiiiioii ii	as iaii, populai		at toot.		1.00000		
MOUNTING:	Floor mounted using ( Cap Screws to alumin	(4) -3/8" diam. A	ASTM A574		•			
MOUNTING: PROPERTIES:	Floor mounted using	(4) -3/8" diam. A	ASTM A574		•			
	Floor mounted using	(4) -3/8" diam. A	ASTM A574		LOW	EST RESONAN	IT FREQUENC	Y (Hz.)
	Floor mounted using ( Cap Screws to alumin	(4) -3/8" diam. A	ASTM A574 ate.		LOW Side-Axis		IT FREQUENC It-Axis	Y (Hz.) Vertical-Axis
PROPERTIES:	Floor mounted using Cap Screws to alumin	(4) -3/8" diam. /	ASTM A574 ate.	Socket Head		Fron	1	,
Width 13.0	Ploor mounted using to Cap Screws to aluming the Cap Screws the Cap	(4) -3/8" diam. Anum interface pl	ASTM A574 ate.	Socket Head  Weight (lb.)	Side-Axis	Fron	t-Axis	Vertical-Axis
PROPERTIES: Width	Ploor mounted using to Cap Screws to aluming the Cap Screws the Cap	(4) -3/8" diam. Anum interface pl	ASTM A574 ate.	Socket Head  Weight (lb.)	Side-Axis	Fron	t-Axis	Vertical-Axis



#### **ATTACHMENT 2: TEST SPECIMEN SUMMARY**

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UUT 1503-A3	LCC CRC RA	CK DVI							
MANUFACTURER:	Philips Medical Syste	ems (Cleveland)	), Inc.				- 1/4		1
IDENTIFICATION:	Rack	CRO	0	C	IRS				
	455012005711 Rev I	3 4598009	18411	45980	0914091				
DESCRIPTION:	Adaptor) • CIRS Comput SN5BP, ACQ4	I (Granite) inclut Computer (CR er (CIRS, HP zt 4e) ole Seismic Kit	ding: C) (Hos 340 E5- (Part N	st, HP z440 2620v3 40 o. 4598 00	Orv, 08 81561)				
MOUNTING:	Floor mounted using Cap Screws to alumi			\574 Sock	et Head		7-		
				00	25			The state of the state of	
PROPERTIES:			401	7 001	JE CC	24.			
	DIMENSIONS (in.)	JED			MWWWW	LOW	EST RESONAN	NT FREQUENC	Y (Hz.)
Width	Depth	Height		Weig	ht (lb.)	Front-Axis	Side	e-Axis	Vertical-Axis
24.0	35.5	29.9			307	9.4		5.6	20.8
SHAKE TABLE TEST	PARAMETERS	2/		SP-0	463				
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 2013	ICC-ES AC156	2.5	1	4.1	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

	- WA 1974
UUT-1603-4	Ingenuity CT Gantry DATE: 06/19/2020
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.)				LOWI	EST F	RESONAN	IT FREQUENCY (Hz.)		
Width	Depth	Height		Weight (lb.)	Front-Axis		Side-Axis		\	/ertical-Axis
93.5	37	78.9		4336	7.0		6	.5	22.2	
SHAKE TABLE TEST P	ARAMETERS									
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	Ι <sub>Ρ</sub>	A <sub>FLX-H</sub> (g)	A	<sub>RIG-Н</sub> (g)	A <sub>FLX-V</sub> (g	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 st	ructural integrity and re	mained function	nal per m	anufacturer require	ment after the ICC	C-ES	AC 156 te	st		



#### **ATTACHMENT 2: TEST SPECIMEN SUMMARY**

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	/
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:			F01	3 6 6	ODE CU				
DIMENSIONS (in.)						LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height		$\subset W$	eight (lb.)	Front-Axis	Side	-Axis	Vertical-Axis
22.7	117.6	41.375		918 -	+ 450 patient	7	24	4.5	4.4
SHAKE TABLE TEST I	PARAMETERS	2/		SD	0463	111/2			
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 BY	Tim <sup>0</sup>	othy	/ J Pilai	3.20	2.40	1.68	0.68
Unit maintained s	structural integrity and re	mained functio	nal per	manufa	acturer requirer	nent after the ICo	C-ES AC 156 te	st	

UUT-1603-6	Ingenuity CT E	Box	IE:U	0/ 1	9/2020						
MANUFACTURER:	Philips Medical Syste	ms (Cleveland	), Inc.&	Vexos	+	2					
IDENTIFICATION:	Part No. 4535670271	95 Rev:F				~~					
	Serial No. 232	100		14		OK,					
DESCRIPTION:	Component of the Ing		-	$\frac{g_1 v}{e^{t d} - \frac{5k}{17}}$		â					
MOUNTING:	Floor mounted using fasteners at each of t			Lock" r	eclosable						
PROPERTIES:											
	DIMENSIONS (in.)					LOW	EST	RESONAN	T FREQUE	NCY	(Hz.)
Width	Depth	Height		W	/eight (lb.)	Front-Axis		Side	-Axis	\	/ertical-Axis
15.8	4	3.5			4	22.4		>:	50		>50
SHAKE TABLE TEST I	PARAMETERS										
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	Z/	h'	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	Α	<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		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



#### **ATTACHMENT 2: TEST SPECIMEN SUMMARY**

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UUT-1602-2	Patient Support	, Bariatric							
MANUFACTURER:	Philips Healthcare (S	uzhou) Co., Ltd			100				
IDENTIFICATION:	Part No. 4535673918	861					- 1		
	Serial No. 921012						- a marine		
							1/2		-
DESCRIPTION:	Component of the Br Ingenuity CT systems	illiance Big Bore s.	e CT &					B	
MOUNTING:	Floor mounted using 8 bolts	(5) – 5/8" diam.	SAE J	429 Gra	ade			1	
PROPERTIES:			F01	RU	DOF CU	1			
	DIMENSIONS (in.)	IED				LOWE	ST RESONAN	T FREQUEN	CY (Hz.)
Width	Depth	Height		C W	eight (lb.)	Side-Axis	Fron	t-Axis	Vertical-Axis
22.7	107.4	36	V	91	908	3.3	7	.3	4.7
SHAKE TABLE TEST I	PARAMETERS	4/		SD	0463	11/2		•	
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	Z	/h	l <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 BY	Tim	oth	/ J <sup>15</sup> ilaı	3.20 2.50	2.40 1.00	1.34 1.68	0.54 0.68

CT Box DATE: 06/19/2	2020
Philips Medical Systems (Cleveland), Inc.& Grayhill Electronics (Shenzhen) Co.	
Part No. 459800484611	
Serial No. 000841	
BUILD	TO TO
Component of the Brilliance Big Bore CT & Ingenuity CT systems.	Z <sub>18</sub> Y 12 - 12 X
Rigid Base mounted using (2) – Philips Healthcare CT Box Seismic Mounting Strip (P/N 459801147561) at each of two legs.	3
	Philips Medical Systems (Cleveland), Inc.& Grayhill Electronics (Shenzhen) Co.  Part No. 459800484611  Serial No. 000841  Component of the Brilliance Big Bore CT & Ingenuity CT systems.  Rigid Base mounted using (2) – Philips Healthcare CT Box Seismic Mounting Strip (P/N 459801147561) at

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

PROPERTIES:											
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)					(Hz.)	
Width	Depth	Height		Weight (lb.)	Side-Axis		Front-Axis		Vertical-Axis		
15.8	4	3.5		4	>50		>50			>50	
SHAKE TABLE TEST	SHAKE TABLE TEST PARAMETERS										
CODE	TEST CRITERIA	S <sub>DS</sub> (g)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (g)	$A_R$	<sub>RIG-Н</sub> (g)	A <sub>FLX-V</sub> (g	g)	A <sub>RIG-V</sub> (g)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20		2.40	1.68		0.68	
Unit maintained s	Unit maintained structural integrity and remained functional per manufacturer requirement after the ICC-ES AC 156 test										

#### ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT1705- 2	Patient Supp	ort – Standard				
MANUFACTURER:	Philips Medical Sys	stems (Cleveland), Inc.				
IDENTIFICATION:	Part No.: 45356748	30181				
DESCRIPTION:	Patient Support - S	Brilliance iCT & Ingenutandard including:	ity CT systems	CONTRACT AS TO		
	459801139791 G 459800073071 P	antry/Couch Anchor E linth Group, Couch Ba	racket Seismic Kit se			
MOUNTING:		mounted using (5) $-\frac{1}{2}$ willips supplied washer			b 12	
		10	OR CODE			N
	DIMENSIONS (in	1.)	RCODEC	LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	DIMENSIONS (in	n.)	Weight (lb.)	LOWEST Longit -Axis	RESONANT FREQUE	ENCY (Hz.)  Vert-Axis
Width 22.7			Weight (lb.)	10		
22.7	Depth	Height 42		Longit -Axis	Transv-Axis	Vert-Axis 4.6
22.7	Depth 107.4	Height 42		Longit -Axis	Transv-Axis	Vert-Axis

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 SHA	KE TABLE TEST PA	RAMETERS				CODE: 2016 CBC
S <sub>DS</sub> (G)	z/h	<b>₹</b> / I <sub>P</sub>	OS A <sub>FLX-H</sub> (G) 3	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68
Unit satisfied AC156	requirements for stru	ctural integrity and m	nanufacturer requirement	s for functionality afte	r AC156 test.	

Unit satisfied AC156 requirements for st	ructural integrity and manufactur	er requirements for functionality	ly after AC156 test.
	WAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		

UUT 1713-1	CRC RACK	(Avnet) DATE: (	06/19/2020			
MANUFACTURER:	Philips Medical Syste & Avnet Technology	ems (Cleveland), Inc. Solutions (Tianjin) Ltd.		No.		
IDENTIFICATION:	CRC Rack	Common Host	CIRS		-	
	459801089011	459801304931	459801305071	00		
DESCRIPTION:  MOUNTING:	CRC RACK (Avnet) ii Common Host C z440, Kbd, Mou CIRS Computer CAN, Adapter CRC Rack Seisi The Test Specimen v	Computer (CRC) (HP z4 se, CAN, Adapter (HP z840): UPD Host z mic package KIT (45980 was fully populated through) -3/8" diam. SAE J42	40): UPD Host 440, Kbd, Mouse, 01357921) ughout test.			
					DE001111	
	DIMENSIONS (in	.)		LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	DIMENSIONS (in Depth	.) Height	Weight (lb.)	LOWEST  Longit -Axis	Transv-Axis	` <i>'</i>
Width 24.0	`	<u>,                                      </u>	Weight (lb.) 317.5	-		Vert-A
24.0	Depth	Height 29.9	3 ,	Longit -Axis	Transv-Axis	Vert-A 21.4
24.0	Depth 35.6	Height 29.9	3 ,	Longit -Axis	Transv-Axis	Vert-A



#### ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT 1806-3	Gen 5.3 CRO	Rack IMR (A	vnet)			
MANUFACTURER:		olutions (Taijin), Ltd. (A				
IDENTIFICATION:	Part No. 4598015402	281		The state of the s		
	Serial No.: N/A					
DESCRIPTION:  MOUNTING:	Includes the followin CT Gen5.3 IDose CI w/ 1 TB NVMe Host z4, Kbd, Mouse Also included: 2 TB NVMe SSD, Pa Requires Seismic M Test unit was fully po	ore, iCT and Ingenuity g: RS, Z8 + ACQ (HP), P SSD, Part: MZVLB1T0 b, CAN, Adaptor; Part: art: MZVLB2T0HMLB-0 (it 12NC P/N: 4598015 b) pulated throughout tea (4) -3/8" diam. SAE J (4)	Part: 459801493311 HALR-000H2 459801493301 000H1 561661 st.	Service Servic		B
	DIMENSIONS (in			LOWEST	RESONANT FREQUE	ENCY (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 SH	AKE TABLE TEST PA	RAMETERS	OSP-0463	M/m		CODE: 2016 CBC
S <sub>DS</sub> (G)	z/h	l <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 2.5	1 0	1.5 Y: Tir	mothy <sub>3.2</sub> Pila	nd 2.4	1.68	0.68
		uctural integrity and ma				

UUT 1806-4	Gen 5.3 CRC R	ack IMR (Avne	t)	/2/		
MANUFACTURER:	Avnet Technology Sol Hewlett Packard (HP)					To the second
IDENTIFICATION:	Part No. 4598012866	11		DV		
DESCRIPTION:	Gen 5.3 CRC Rack IM Component of Big Boo Includes the following CT Gen 5.3 IMR CIRS CT Gen 5.3 IMR CIRS w/ 1 TB NVMe SSD, F Also included: 2 TB NVMe SSD, Par Requires Seismic Ki Test unit was fully pop	re, iCT and Ingenuity  S S1, Z8 + ACQ (HP), S S2, Z8 (HP), Part: 4 Part: MZVLB1T0HALF  t: MZVLB2T0HMLB-C  t 12NC P/N: 4598015	Part: 459801626701 59801626691 R-000H2		UUU	na l
MOUNTING:	Floor mounted using ( aluminum interface pla		129 Grade 8 to			
	DIMENSIONS (in.)			LOWEST	ST 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 SHA	AKE TABLE TEST PARA	AMETERS				CODE: 2016 CBC
S <sub>DS</sub> (G)	z/h	$I_P$	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 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit maintained s	tructural integrity and re	mained functional pe	r manufacturer requirer	ment after AC156 tes	t.	



#### ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT 1806-5	Gen 5.3 Host Rack IMR (Avnet)					
MANUFACTURER:		y Solutions (Taijin), Ltd. (HP) & Philips Healthca				Z Z
IDENTIFICATION:	Part No. 459801287961 Serial No. AVTHOSTIMR00002					
DESCRIPTION:  MOUNTING:	Includes the follow Host Z4, Kbd, Mod 459801493301 Requires Seismi Test unit was fully	g Bore, iCT and Ingenuit wing: ouse, CAN, Adaptor (HP ic Kit 12NC P/N: 45980 of populated throughout the ing (4) -3/8" diam. SAE	), Part: <b>1561671</b> est.		UUT.5	
		OFO	R CODE CO			
	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 SHAK	E TABLE TEST PA	RAMETERS	JSP-0463			CODE: 2016 CBC
S <sub>DS</sub> (G)	z/h	l <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 2.5	1 0	18Y:Tin	nothy3.26 Pilan	2.40	1.68	0.68

