



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

**APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP – 0469

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Philips Healthcare

Manufacturer's Technical Representative: Ren Peter

Mailing Address: 258 Zhong Yuan Road; Suzhou Industrial Park; Jiangsu Province, P.R.C 215024

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

Product Information

Product Name: Brilliance Big Bore CT Base System, Brilliance Big Bore CT for Oncology & Philips CT Big Bore

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 and enhancements required to address 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

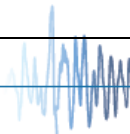
I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: _____

Date: May 27, 2019

Title: Principal Engineer

Company Name: EASE LLC



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



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

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): _____

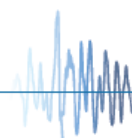
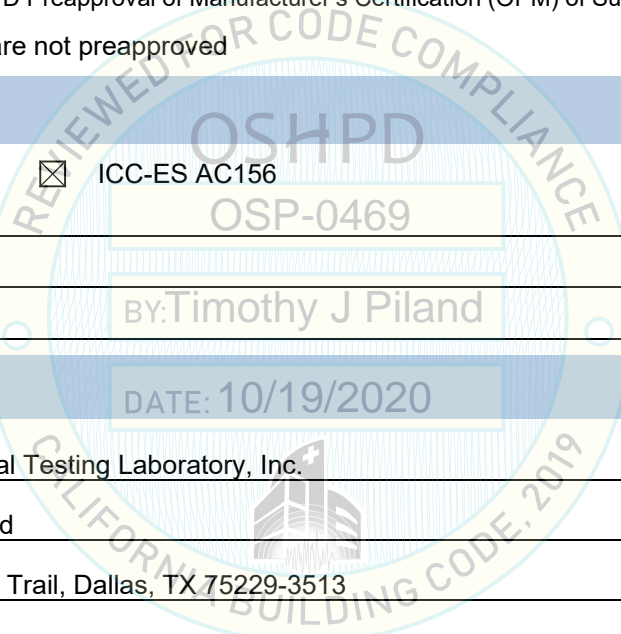
Testing Laboratory

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





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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) = $S_{DS} = 2.00$ (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) = z/h = 1 ($S_{DS} = 2.00$); z/h = 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

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

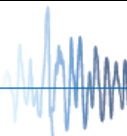
Signature: Date: October 19, 2020

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): _____

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



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 1 OF 4

TABLE 1:

| SYSTEM MFR. | Philips Medical Systems Nederland B.V. | | | | | | | | | | | | | |
|---|--|--------------------------|-------|----------|----------------|------------|-------------|--------------------------------|-----------------|--------|----------------|----------------|----------------|--|
| SYSTEM | Brilliance Big Bore CT Base System Brilliance Big Bore CT for Oncology (459801601901) [6] | | | | | | | | | | | | | |
| 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, Brilliance Big Bore [3] | 459800746192 | 99 | 39 | 78.7 | 4503 | Rigid Base | UUT1602-1 | 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, Bariatric [3] | 453567391361 | 22.7 | 107.4 | 25.4 min | 890 [2] | Rigid Base | UUT1602-2 | 2.40 1.13 | 2.0 2.5 | 1 0 | 1 | 1 ½ | 1 ½ | |
| CONSOLES | | | | | | | | | | | | | | |
| LCC CRC RACK DVI (Granite) including: [3] | 455012005711 | 24.0 | 35.5 | 29.9 | 307 | Rigid Base | UUT 1503-A3 | 1.44 1.13 | 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 1.13 | 2.0 2.5 | 1 0 | 1 | 2 ½ | 2 | |
| Common Host Computer (CRC) (HP z440) | 459800918411 | | | | | | | | | | | | | |
| CIRS Computer (HP z840) | 459800914241 | | | | | | | | | | | | | |
| LCC CRC RACK DVI (Granite) including: [3] | 455012005711 | 24.0 | 35.5 | 29.9 | 307 | Rigid Base | INT | 1.44 1.13 | 2.0 2.5 | 1 0 | 1 | 2 ½ | 2 | |
| Common Host Computer (CRC) (HP z440) | 459800918411 | | | | | | | | | | | | | |
| CIRS Computer (HP z840) | 459801313471 | | | | | | | | | | | | | |
| CRC RACK IMR (Granite) including: [3] | 459800444991 | 24.0 | 35.5 | 29.9 | 316 | Rigid Base | UUT 1503-A1 | 1.44 1.13 | 2.0 2.5 | 1 0 | 1 | 2 ½ | 2 | |
| CIRS Computer S1 (HP z840) | 459800912731 | | | | | | | | | | | | | |
| CIRS Computer S2 (HP z840) | 459800914211 | | | | | | | | | | | | | |

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1:

| SYSTEM MFR. | Philips Medical Systems Nederland B.V. | | | | | | | | | | | | |
|--|---|--------------------------|------|------|----------------|------------|----------------------|--------------------------------|-----------------|--------|----------------|----------------|----------------|
| SYSTEM | Brilliance Big Bore CT Base System Brilliance Big Bore CT for Oncology (459801601901) ^[6] | | | | | | | | | | | | |
| 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 | | | | | | | | | |
| CRC RACK (Avnet) including: ^[5] | 459801089011 | 24.0 | 35.6 | 29.9 | 318 | Rigid Base | INT | 1.44 1.13 | 2.0 2.5 | 1 0 | 1 | 2 ½ | 2 |
| Common Host Computer (CRC) (HP z440) | 459800918411 | | | | | | | | | | | | |
| CIRS Computer (HP z840) | 459801313471 | | | | | | | | | | | | |
| CRC RACK (Avnet) including: ^[5] | 459801089011 | 24.0 | 35.6 | 29.9 | 318 | Rigid Base | UUT1713-1 | 1.44 1.13 | 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) ^[4] | 453567027195 | 15.8 | 4 | 3.5 | 4 | CTA | UUT1603-6 | 1.44 | 2.0 | 1 | 1 | 2 ½ | 2 |
| CT Box Assembly (Grayhill) ^[4] | 459800484611 | 15.8 | 4 | 3.5 | 4 | CTA | UUT1707-4 | 1.13 | 2.5 | 0 | 1 | 2 ½ | 2 |
| MOUNT | <p><u>Floor (Rigid Base) Mount:</u> free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p><u>Countertop Anchored:</u> unit is anchored to a rigid fixed support such (e.g. built-in countertop, desktop, et. al.).</p> | | | | | | | | | | | | |
| NOTES | <ol style="list-style-type: none"> BASIS: <ul style="list-style-type: none"> 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. Patient table weight does not include the 500 LB patient load present during testing. Component requires use of Philips Healthcare Seismic Kit (Part No. 4598 008 81561 or equivalent). Component requires use of Philips Healthcare CT Box Seismic Mounting Strip (Part No. 4598 011 47561 or equivalent). Component requires use of Philips Healthcare Seismic Kit (Part No. 4598 013 57921 or equivalent). System formerly identified by 459800867871 under Philips Medical Systems (Cleveland), Inc. | | | | | | | | | | | | |

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2:

| SYSTEM MFR. | Philips Medical Systems Nederland B.V. | | | | | | | | | | | | |
|---|---|--------------------------|-------|----------|--------------------|------------|----------------------|--------------------------------|-----------------|--------|----------------|----------------|----------------|
| SYSTEM | Philips CT Big Bore Base System (459801569961) Philips CT Big Bore Base System, IMR (459801635841) | | | | | | | | | | | | |
| COMPONENT | PART NUMBER | APPROX. DIMENSIONS (IN.) | | | MAX. WT. (LB.) | MOUNT | BASIS ^[1] | F _p /W _p | S _{bs} | z/h | a _p | R _p | Ω ₀ |
| | | W | D | H | | | | | | | | | |
| GANTRIES | | | | | | | | | | | | | |
| GANTRY, Brilliance Big Bore ^{[3][8]} | 459800746192 | 99 | 39 | 78.7 | 4503 | Rigid Base | UUT1602-1 | 2.40 1.13 | 2.0 2.5 | 1 0 | 1 | 1 ½ | 1 ½ |
| LH Actuator, Seismic | 459800121282 | | | | | | | | | | | | |
| RH Actuator, Seismic | 459800121292 | | | | | | | | | | | | |
| GANTRY, Brilliance Big Bore ^[3] | 459801479581 | 99 | 39 | 78.7 | 4503 | Rigid Base | INT | 2.40 1.13 | 2.0 2.5 | 1 0 | 1 | 1 ½ | 1 ½ |
| LH Actuator, Seismic | 459800121282 | | | | | | | | | | | | |
| RH Actuator, Seismic | 459800121292 | | | | | | | | | | | | |
| GANTRY, Ingenuity ^[8] | 459800708861 | 93 | 37 | 78.9 | 4300 | Rigid Base | UUT1603-4 | 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, Bariatric ^[3] | 453567391363 | 22.7 | 107.4 | 25.4 min | 890 ^[2] | Rigid Base | SAME AS UUT1602-2 | 2.40 1.13 | 2.0 2.5 | 1 0 | 1 | 1 ½ | 1 ½ |
| CONSOLES | | | | | | | | | | | | | |
| LCC CRC Rack (Avnet) ^[4] | 459801540281 | 24 | 35 | 30 | 309 | Rigid Base | UUT1806-3 | 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, Kbd, Mouse, CAN, Adaptor (HP Z4) | 459801493301 | | | | | | | | | | | | |
| CRC RACK IMR (Avnet) ^[5] | 459801286611 | 24 | 35 | 30 | 340 | Rigid Base | UUT1806-4 | 1.44 1.13 | 2.0 2.5 | 1 0 | 1 | 2 ½ | 2 |
| CT Gen 5.3 IMR CIRS S1, Z8 + ACQ (HPn 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 | UUT1806-5 | 1.44 1.13 | 2.0 2.5 | 1 0 | 1 | 2 ½ | 2 |
| Host z4, Kbd, Mouse, CAN, Adaptor (HP Z4) | 459801493301 | | | | | | | | | | | | |
| MISC | | | | | | | | | | | | | |
| CT Box Assembly (Grayhill) ^[7] | 459801478151 | 15.8 | 4 | 3.5 | 4 | CTA | SAME AS UUT1707-4 | 1.44 1.13 | 2.0 2.5 | 1 0 | 1 | 2 ½ | 2 |

Table continues next page


ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS


ATTACHMENT PAGE | 4 OF 4

TABLE 2:

| SYSTEM MFR. | Philips Medical Systems Nederland B.V. | | | | | | | | | | | | |
|-------------|--|--------------------------|----------------|---|----------------|-------|----------------------|--------------------------------|-----------------|-----|----------------|----------------|----------------|
| SYSTEM | Philips CT Big Bore Base System | | (459801569961) | | | | | | | | | | |
| | Philips CT Big Bore Base System, IMR | | (459801635841) | | | | | | | | | | |
| 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 | | | | | | | | | |
| MOUNT | <p><u>Rigid Base (Floor) Mount:</u> free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p><u>CTA (Countertop Anchored):</u> unit is anchored to a rigid fixed support such (e.g. built-in countertop, desktop, et. al.).</p> | | | | | | | | | | | | |
| NOTES | <ol style="list-style-type: none"> BASIS: <ul style="list-style-type: none"> 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. Patient table weight does not include the 500 LB patient load present during testing. Component requires use of Philips Healthcare Seismic Kit (Part No. 4598 008 81561 or equivalent). LCC CRC Rack requires use of Philips Seismic Kit (Part No. 459801561661 or equivalent). CRC RACK IMR requires use of Philips Seismic Kit (Part No. 459801561811 or equivalent). HOST RACK IMR requires use of Philips Seismic Kit (Part No. 459801561671 or equivalent). Component requires use of Philips Healthcare CT Box Seismic Mounting Strip (Part No. 4598 011 47561 or equivalent). Model is included only for purpose of interpolation and not used with the CT system(s) identified in this table. | | | | | | | | | | | | |

ATTACHMENT 2: TEST SPECIMEN SUMMARY

| | | | | | | | | |
|--|--|---------------------|---------------------------------|----------------|------------------------|------------------------|------------------------|------------------------|
| UUT1602-1 Brilliance Big Bore CT Gantry | | | | | | | | |
| MANUFACTURER: | Philips Healthcare | | | | | | | |
| IDENTIFICATION: | Part No.: 459800746192 | | | | | | | |
| DESCRIPTION: | Component of the Brilliance Big Bore CT system | | | | | | | |
| MOUNTING: | Floor mounted using (8) - 3/4" dia GR 8 bolts | | | | | | | |
|  | | | | | | | | |
| PROPERTIES: | | | | | | | | |
| DIMENSIONS (in.) | | | LOWEST RESONANT FREQUENCY (Hz.) | | | | | |
| Width | Depth | Height | Weight (lb.) | Front-Axis | Side-Axis | Vertical-Axis | | |
| 99 | 39 | 78.7 | 4511 | 4.4 | 4.8 | 23.6 | | |
| 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 Bariatric Patient Support | | | | | | | | |
| MANUFACTURER: | Philips Healthcare (Suzhou) Co., Ltd | | | | | | | |
| IDENTIFICATION: | Part No.: 453567391361 Serial No.: 921012 | | | | | | | |
| DESCRIPTION: | Component of the Brilliance Big Bore CT system | | | | | | | |
| MOUNTING: | Floor mounted using (5) – 5/8" dia GR 8 bolts | | | | | | | |
|  | | | | | | | | |
| PROPERTIES: | | | | | | | | |
| DIMENSIONS (in.) | | | LOWEST RESONANT FREQUENCY (Hz.) | | | | | |
| Width | Depth | Height | Weight (lb.) | 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 | 2.40 | 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

| | | | | | | | | | |
|--|---------------|--|--------------|----------------|---------------------------------|------------------------|------------------------|------------------------|--|
| UUT1503- A1 CRC RACK IMR | | | | | | | | | |
| MANUFACTURER: | | Philips Medical Systems (Cleveland), Inc. & Granite MEDSYSTEMS | | | | | | | |
| IDENTIFICATION: | | Rack | CIRS S1 | CIRS S2 | | | | | |
| | | 459800444991 Rev C | 459800912731 | 459800914211 | | | | | |
| DESCRIPTION: | | <p>CRC RACK IMR 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: 4598 008 81561)</p> <p>The Test Specimen was fully populated throughout test.</p> | | | | | | | |
| MOUNTING: | | Floor mounted using (4) -3/8" dia. Allen 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 | | | |
| 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 2016 | 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 | | | | | | | | | |

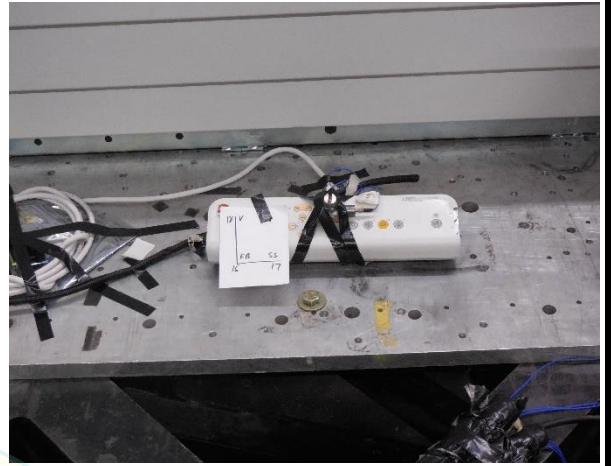


| | | | | | | | | | |
|--|---------------|---|--------------|----------------|---------------------------------|------------------------|------------------------|------------------------|--|
| UUT1503- A3 LCC CRC RACK DVI | | | | | | | | | |
| MANUFACTURER: | | Philips Medical Systems (Cleveland), Inc. & Granite MEDSYSTEMS | | | | | | | |
| IDENTIFICATION: | | Rack | (CRC) | CIRS | | | | | |
| | | 455012005711 Rev B | 459800918411 | 459800914091 | | | | | |
| DESCRIPTION: | | <p>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 (PART: 4598 008 81561)</p> <p>The Test Specimen was fully populated throughout test.</p> | | | | | | | |
| MOUNTING: | | Floor mounted using (4) -3/8" dia. Allen 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 2016 | 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 | | | | | | | | | |

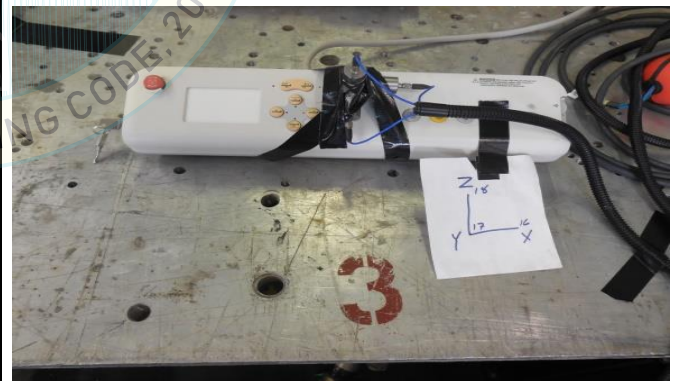


ATTACHMENT 2: TEST SPECIMEN SUMMARY


| | | | | | | | | | |
|--|---------------|---|--------------|----------------|---------------------------------|------------------------|------------------------|------------------------|--|
| UUT 1603-6 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. Unit is common to multiple CT systems. | | | | | | | |
| MOUNTING: | | Rigid Base mounted using (2) – 2" x 1" Velcro strips | | | | | | | |
| 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 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.) | | | | | LOWEST RESONANT FREQUENCY (Hz.) | | | | |
| Width | Depth | Height | Weight (lb.) | | 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 | | | | | | | | | |



ATTACHMENT 2: TEST SPECIMEN SUMMARY

| 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: 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) 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 | 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. | | | | | | | | | |

| 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 <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 <u>Also included:</u> 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 | 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

| | | | | | | |
|---|--------|---|------------------------|--|------------------------|------------------------|
| 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 <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 <u>Also included:</u> 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. | | | | | | |

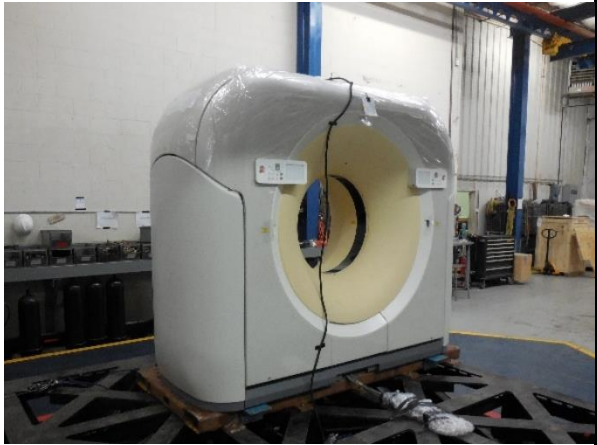


| | | | | | | |
|---|--------|--|------------------------|--|------------------------|------------------------|
| UUT 1806-5 Gen 5.3 Host Rack IMR (Avnet) | | | | | | |
| MANUFACTURER: | | Avnet Technology Solutions (Taijin), Ltd. (Avnet) Hewlett Packard (HP) & Philips Healthcare (Suzhou) Co., Ltd. | | | | |
| 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. | | | | | | |



ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 6 OF 6

| | | | | | | | | | |
|--|---------------|---|--------------|----------------|---------------------------------|------------------------|------------------------|------------------------|--|
| 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) - 3/4" 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 | | | | | | | | | |

DATE: 10/19/2020

