



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY
APPLICATION #: OSP - 0632

OSHPD Special Seismic Certification Preapproval (OSP)

Type: [X] New [ ] Renewal

Manufacturer Information

Manufacturer: Canon Medical Systems Corporation

Manufacturer's Technical Representative: Krystal Ouren

Mailing Address: 2441 Michelle Drive, Tustin CA 92780

Telephone: On File Email: On File

Product Information

Product Name: AQUILION PRECISION CT SYSTEMS

Product Type: Computed Tomography (CT) medical diagnostic imaging systems

Product Model Number: See Attachment 1, Tables 1 & 2
(List all unique product identification numbers and/or part numbers)

General Description: Multiple component systems for the provision of Computed Tomography (CT) medical
imaging. Seismic Certification is limited to the systems & components identified in Attachment 1. Enhancements to the
standard manufactured product present in the units tested shall be incorporated into the certified units.

Mounting Description: Rigid base mounted (i.e. floor mounted), except as noted in Attachment 1, Table 1.

Applicant Information

Applicant Company Name: EASE

Contact Person: JONATHAN ROBERSON, S.E.

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

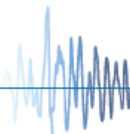
Telephone: (909) 606-7622 Email: j.roberson@easeco.com

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: [Signature] Date: 11/20/2020

Title: Principal Engineer Company Name: EASE

\*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

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): \_\_\_\_\_

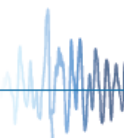
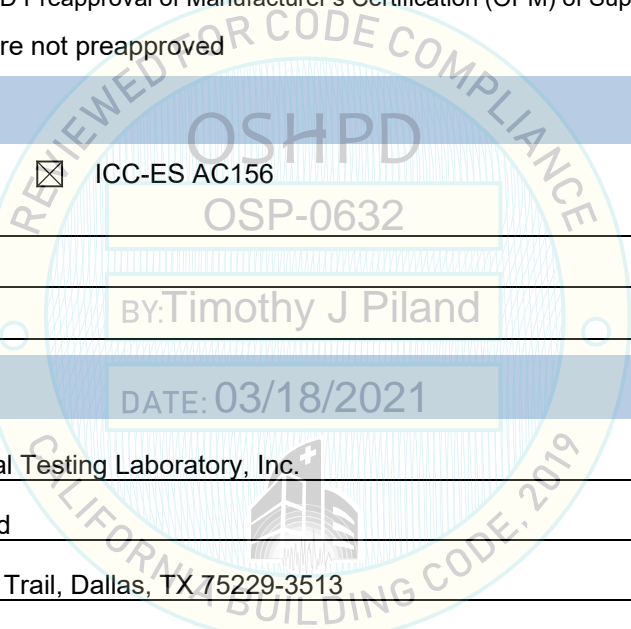
**Testing Laboratory**

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**

**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, Tables 1 & 2

$S_{DS}$  (Design spectral response acceleration at short period, g) = See Attachment 1, Tables 1 & 2

$a_p$  (In-structure equipment or component amplification factor) = See Attachment 1, Tables 1 & 2

$R_p$  (Equipment or component response modification factor) = See Attachment 1, Tables 1 & 2

$\Omega_0$  (System overstrength factor) = See Attachment 1, Tables 1 & 2

$I_p$  (Importance factor) = **1.5**

$z/h$  (Height factor ratio) = See Attachment 1, Tables 1 & 2

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

Overall dimensions and weight (or range thereof) = See Attachment 1, Tables 1 & 2

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) = \_\_\_\_\_

$\Omega_0$  (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**

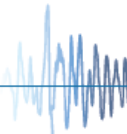
Signature:  Date: March 18, 2021

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to:  $S_{DS}$  (g) = See Above  $z/h$  = See Above

Condition of Approval (if applicable): \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_



**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

**TABLE 1:**

| Manufacturer   |                             | CANON MEDICAL SYSTEMS CORPORATION         |                 |                |                     |            |                      |                                |                 |        |                |                |                |
|--|-----------------------------|---|-----------------|----------------|---------------------|------------|----------------------|--------------------------------|-----------------|--------|----------------|----------------|----------------|
| System   |                             | AQUILION PRECISION CT SYSTEM (TSX-304A/1) |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| Component  | Model 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              |                     |            |                      |                                |                 |        |                |                |                |
| <b>GANTRIES</b>  |                             |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| Aquilion CT Scanner Gantry (Type G)                          | CGGT-033A/1B                | 89.4                                      | 37.8            | 75.8           | 5314                | Rigid Base | UUT-1901-1           | 2.40<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 1 ½            | 2              |
| w/ Optional Gantry Rear Operating Panel Kit                  | CAGP-003A/1B                |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| <b>PATIENT TABLES</b>  |                             |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| Patient Couch – High Capacity – Extended                     | CBTB-034A/1A                | 26.8                                      | 102 –<br>183.9  | 21.3 –<br>41.9 | 1618 <sup>[5]</sup> | Rigid Base | UUT-1901-2           | 2.40<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 1 ½            | 2              |
| Patient Couch – High Capacity – Extended                     | CBTB-034A/1A                |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| w/ Optional Tech Assist Lateral Slide / Lateral Movement Kit | CALU-002A/1B                | 26.8                                      | 102 –<br>183.9  | 24.8 –<br>41.9 | 1985 <sup>[5]</sup> | Rigid Base | UUT-1901-3           | 2.40<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 1 ½            | 2              |
| Patient Couch – High Capacity – Compact                      | CBTB-034B/1A                | 26.8                                      | 90.5 –<br>160.6 | 24.8 –<br>41.9 | 1843 <sup>[5]</sup> | Rigid Base | INT                  | 2.40<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 1 ½            | 2              |
| w/ Optional Tech Assist Lateral Slide / Lateral Movement Kit | CALU-002A/1B                |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| Patient Couch – High Capacity – Compact                      | CBTB-034B/1A                | 26.8                                      | 90.5 –<br>160.6 | 21.3 –<br>41.9 | 1573 <sup>[5]</sup> | Rigid Base | UUT-1901-7           | 2.40<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 1 ½            | 2              |
| <b>CONSOLES</b>  |                             |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| NAVI Box – Type A  | CKCN-019A/1B <sup>[2]</sup> | 7.9                                       | 12.2            | 13.8           | 28                  | CTA        | UUT-1901-4           | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Con Box – Type P   | CKCN-019A/1B                | 25.6                                      | 37.8            | 68.1           | 1037                | Rigid Base | UUT-1901-5           | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| AiCE / FIRST i-Rec Box (Optional)                            | CCRS-002A/1C <sup>[3]</sup> | 14.7                                      | 32.2            | 23.6           | 224                 | Rigid Base | UUT-1901-6           | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| <b>POWER DISTRIBUTION</b>                                    |                             |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| Power Distributor – Type C                                   | CETF-006B/1A <sup>[4]</sup> | 33.86                                     | 27.56           | 52.36          | 1364                | Rigid Base | UUT-1407-3           | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| w/ Optional UPS Kit for Power Distributor                    | CEUC-001A/2B                |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |

Table continues on next page

**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

**TABLE 1:**

| Manufacturer       |   | CANON MEDICAL SYSTEMS CORPORATION         |      |             |          |       |             |                                |                 |        |                |                |                |
|--------------------|---|---|------|-------------|----------|-------|-------------|--------------------------------|-----------------|--------|----------------|----------------|----------------|
| System             |   | AQUILION PRECISION CT SYSTEM (TSX-304A/1) |      |             |          |       |             |                                |                 |        |                |                |                |
| Component          | Model No.   | Approx. Dimensions [in]                   |      |             | Wt. [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> | Ω <sub>0</sub> |
|                    |   | W   | D    | H           |          |       |             |                                |                 |        |                |                |                |
| <b>MISC</b>        |   |   |      |             |          |       |             |                                |                 |        |                |                |                |
| EIZO LCD Monitor   | MX-192  | 16.3                                      | 8.1  | 16.1 – 21.5 | 13       | CTA   | UUT-1603-6  | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Keyboard (scan)    | BSX74-2866-01*B   | 21  | 9.25 | 3.0         | 7        | CTA   | UUT-1901-8  | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Keyboard (scan)    | BSX74-2866-01*D   | 21  | 9.25 | 3.0         | 7        | CTA   | SAME        | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Keyboard (display) | BSX74-2866-02*A   | 21  | 9.25 | 3.0         | 7        | CTA   | UUT-1603-13 | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Keyboard (display) | BSX74-2866-02*D   | 21  | 9.25 | 3.0         | 7        | CTA   | SAME        | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Mount              | <p><b>Floor (Rigid Base):</b> free-standing, base-mounted configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p><b>CTA (Countertop Anchored):</b> refers to a condition where the unit is anchored to a counter, desk, or other piece of rigid fixed furniture.</p>   |   |      |             |          |       |             |                                |                 |        |                |                |                |
| Notes              | <p>1. BASIS:</p> <ul style="list-style-type: none"> <li>• "UUT-#" indicates that a test specimen matching these characteristics was tested as part of a seismic test program.</li> <li>• "SAME" indicates component is physically, mechanically, and electrically the same as another test specimen with differences limited to model number, color, and/or software.</li> <li>• "INT" (Interpolated or Extrapolated) indicates model of equipment not specifically tested for which seismic qualification is established through testing of similar models in the product line.</li> </ul> <p>2. NAVI Box – Type A requires the use of seismic kit P/N: ANC-CA-002NAVI</p> <p>3. AiCE / FIRST i-Rec Box requires the use of seismic kit P/N: ANC-CA-CCRS</p> <p>4. Power Distributor – Type C requires the use of seismic kit P/N: ANC-CA-002PD</p> <p>5. Patient Couch weight does not include 660 lb Max Patient Load.</p> |   |      |             |          |       |             |                                |                 |        |                |                |                |



**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**

**TABLE 2:**


| Manufacturer   |                             | CANON MEDICAL SYSTEMS CORPORATION         |                 |                |                     |            |                      |                                |                 |        |                |                |                |
|--|-----------------------------|---|-----------------|----------------|---------------------|------------|----------------------|--------------------------------|-----------------|--------|----------------|----------------|----------------|
| System   |                             | AQUILION PRECISION CT SYSTEM (TSX-304A/3) |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| Component  | Model 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              |                     |            |                      |                                |                 |        |                |                |                |
| <b>GANTRIES</b>  |                             |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| Aquilion CT Scanner Gantry (Type G)                          | CGGT-033A/1B                | 89.4                                      | 37.8            | 75.8           | 5314                | Rigid Base | UUT-1901-1           | 2.40<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 1 ½            | 2              |
| w/ Optional Gantry Rear Operating Panel Kit                  | CAGP-003A/1B                |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| <b>PATIENT TABLES</b>  |                             |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| Patient Couch – High Capacity – Extended                     | CBTB-034A/1A                | 26.8                                      | 102 –<br>183.9  | 21.3 –<br>41.9 | 1618 <sup>[5]</sup> | Rigid Base | UUT-1901-2           | 2.40<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 1 ½            | 2              |
| Patient Couch – High Capacity – Extended                     | CBTB-034A/1A                |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| w/ Optional Tech Assist Lateral Slide / Lateral Movement Kit | CALU-002A/1B                | 26.8                                      | 102 –<br>183.9  | 24.8 –<br>41.9 | 1985 <sup>[5]</sup> | Rigid Base | UUT-1901-3           | 2.40<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 1 ½            | 2              |
| Patient Couch – High Capacity – Compact                      | CBTB-034B/1A                | 26.8                                      | 90.5 –<br>160.6 | 24.8 –<br>41.9 | 1843 <sup>[5]</sup> | Rigid Base | INT                  | 2.40<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 1 ½            | 2              |
| w/ Optional Tech Assist Lateral Slide / Lateral Movement Kit | CALU-002A/1B                |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| Patient Couch – High Capacity – Compact                      | CBTB-034B/1A                | 26.8                                      | 90.5 –<br>160.6 | 21.3 –<br>41.9 | 1573 <sup>[5]</sup> | Rigid Base | UUT-1901-7           | 2.40<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 1 ½            | 2              |
| <b>CONSOLES</b>  |                             |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| NAVI Box – Type A  | CKCN-019A/2B <sup>[2]</sup> | 7.9                                       | 12.2            | 13.8           | 28                  | CTA        | SAME                 | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Con Box – Type P   | CKCN-019A/2B                | 25.6                                      | 37.8            | 68.1           | 1037                | Rigid Base | UUT-2005-1           | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| AiCE / FIRST i-Rec Box (Optional)                            | CCRS-002A/1C <sup>[3]</sup> | 14.7                                      | 32.2            | 23.6           | 224                 | Rigid Base | UUT-1901-6           | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| <b>POWER DISTRIBUTION</b>                                    |                             |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |
| Power Distributor – Type C                                   | CETF-006B/1A <sup>[4]</sup> | 33.86                                     | 27.56           | 52.36          | 1364                | Rigid Base | UUT-1407-3           | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| w/ Optional UPS Kit for Power Distributor                    | CEUC-001A/2B                |   |                 |                |                     |            |                      |                                |                 |        |                |                |                |


Table continues on next page

**ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS**


**TABLE 2:**


| Manufacturer       |   | CANON MEDICAL SYSTEMS CORPORATION         |      |             |          |       |             |                                |                 |        |                |                |                |
|--------------------|---|---|------|-------------|----------|-------|-------------|--------------------------------|-----------------|--------|----------------|----------------|----------------|
| System             |   | AQUILION PRECISION CT SYSTEM (TSX-304A/3) |      |             |          |       |             |                                |                 |        |                |                |                |
| Component          | Model No.   | Approx. Dimensions [in]                   |      |             | Wt. [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> | Ω <sub>0</sub> |
|                    |   | W   | D    | H           |          |       |             |                                |                 |        |                |                |                |
| <b>MISC</b>        |   |   |      |             |          |       |             |                                |                 |        |                |                |                |
| EIZO LCD Monitor   | MX-192  | 16.3                                      | 8.1  | 16.1 – 21.5 | 13       | CTA   | UUT-1603-6  | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Keyboard (scan)    | BSX74-2866-01*B   | 21  | 9.25 | 3.0         | 7        | CTA   | UUT-1901-8  | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Keyboard (scan)    | BSX74-2866-01*D   | 21  | 9.25 | 3.0         | 7        | CTA   | SAME        | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Keyboard (display) | BSX74-2866-02*A   | 21  | 9.25 | 3.0         | 7        | CTA   | UUT-1603-13 | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Keyboard (display) | BSX74-2866-02*D   | 21  | 9.25 | 3.0         | 7        | CTA   | SAME        | 1.44<br>1.13                   | 2.0<br>2.5      | 1<br>0 | 1              | 2 ½            | 2              |
| Mount              | <p><b>Floor (Rigid Base):</b> free-standing, base-mounted configuration with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p><b>CTA (Countertop Anchored):</b> refers to a condition where the unit is anchored to a counter, desk, or other piece of rigid fixed furniture.</p>   |   |      |             |          |       |             |                                |                 |        |                |                |                |
| Notes              | <p>1. BASIS:</p> <ul style="list-style-type: none"> <li>• "UUT-#" indicates that a test specimen matching these characteristics was tested as part of a seismic testing program</li> <li>• "SAME" indicates component is physically, mechanically, and electrically the same as another test specimen with differences limited to model number, color, and/or software.</li> <li>• "INT" (Interpolated or Extrapolated) indicates model of equipment not specifically tested for which seismic qualification is established through testing of similar models in the product line.</li> </ul> <p>2. NAVI Box – Type A requires the use of seismic kit P/N: ANC-CA-002NAVI</p> <p>3. AiCE / FIRST i-Rec Box requires the use of seismic kit P/N: ANC-CA-CCRS</p> <p>4. Power Distributor – Type C requires the use of seismic kit P/N: ANC-CA-002PD</p> <p>5. Patient Couch weight does not include 660 lb Max Patient Load.</p> |   |      |             |          |       |             |                                |                 |        |                |                |                |


|   |               |                               |              |                |  |                    |                    |                    |  |
|---|---------------|-------------------------------|--------------|----------------|--|--------------------|--------------------|--------------------|--|
| <b>UUT-1407-3 Power Distributor (w/ UPS Kit for Power Distributor)</b>  |               |                               |              |                |  |                    |                    |                    |  |
| <b>MANUFACTURER:</b> Toshiba Medical Systems Corporation  |               |                               |              |                |  |                    |                    |                    |  |
| <b>IDENTIFICATION:</b>  |               |                               |              |                |  |                    |                    |                    |  |
| Power Distributor   |               | UPS Kit for Power Distributor |              |                |  |                    |                    |                    |  |
| Model No.: CETF-006B/1A   |               | Model No.: CEUC-001A/2B       |              |                |  |                    |                    |                    |  |
| S/N: 1AA1482317   |               | Serial No.:2BA1482041         |              |                |  |                    |                    |                    |  |
| <b>DESCRIPTION:</b>   |               |                               |              |                |  |                    |                    |                    |  |
| Component of Aquilion PRIME CT System.<br>Same configuration as UUT-E5 + UPS kit for Power Distributor<br>Unit full of contents during test.<br><u>Modifications to standard production unit:</u><br>Toshiba Seismic Kit ANC-CA-TSX303A |               |                               |              |                |  |                    |                    |                    |  |
| <b>MOUNTING:</b>  |               |                               |              |                |  |                    |                    |                    |  |
| Rigid Base (Floor) Mounted:<br>(6) – 1/2" dia. SAE J429 Grade 8 Hex Head Bolts through<br>Toshiba-provided bracket to aluminum interface plate.   |               |                               |              |                |  |                    |                    |                    |  |
| <b>PROPERTIES:</b>  |               |                               |              |                |  |                    |                    |                    |  |
| <b>DIMENSIONS (in.)</b>   |               |                               |              |                | <b>LOWEST RESONANT FREQUENCY (Hz.)</b>   |                    |                    |                    |  |
| Width   | Depth         | Height                        | Weight (lb.) |                | X-Axis   | Y-Axis             | Z-Axis             |                    |  |
| 33.86   | 27.56         | 52.36                         | 1364         |                | 16.3   | 28.6               | 49.2               |                    |  |
| <b>SHAKE TABLE TEST PARAMETERS</b>  |               |                               |              |                |  |                    |                    |                    |  |
| CODE  | TEST CRITERIA | S <sub>ds</sub>               | z/h          | I <sub>p</sub> | A <sub>FLX-H</sub>   | A <sub>RIG-H</sub> | A <sub>FLX-V</sub> | A <sub>RIG-V</sub> |  |
| CBC 2016  | ICC-ES AC156  | 2.6                           | 1.0          | 1.5            | 4.16   | 3.12               | 1.74               | 0.70               |  |
| Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.  |               |                               |              |                |  |                    |                    |                    |  |


|   |       |                |                        |                        |  |                        |           |  |  |
|---|-------|----------------|------------------------|------------------------|--|------------------------|-----------|--|--|
| <b>UUT-1603-6 Monitor (EIZO)</b>  |       |                |                        |                        |  |                        |           |  |  |
| <b>MANUFACTURER:</b> EIZO   |       |                |                        |                        |  |                        |           |  |  |
| <b>IDENTIFICATION:</b>  |       |                |                        |                        |  |                        |           |  |  |
| Model No.: MX-192   |       |                |                        |                        |  |                        |           |  |  |
| <b>DESCRIPTION:</b>   |       |                |                        |                        |  |                        |           |  |  |
| Component common to all Aquilion CT systems.<br>Unit full of contents during test.  |       |                |                        |                        |  |                        |           |  |  |
| <b>MOUNTING:</b>  |       |                |                        |                        |  |                        |           |  |  |
| Counter Top Anchor (CTA) mounted using (4) - #8 x 1" flat<br>head construction screws w/ 15/32 O.D. countersink<br>grommet into 3/4" thick plywood. |       |                |                        |                        |  |                        |           |  |  |
| <b>DIMENSIONS (in.)</b>   |       |                |                        |                        | <b>LOWEST RESONANT FREQUENCY (Hz.)</b>   |                        |           |  |  |
| Width   | Depth | Height         | Weight (lb.)           |                        | Side-Axis  | Front-Axis             | Vert-Axis |  |  |
| 16.3  | 8.1   | 16.1-21.5      | 13                     |                        | 4.7  | 5.5                    | 23.7      |  |  |
| <b>ICC-ES AC156 SHAKE TABLE TEST PARAMETERS</b>   |       |                |                        |                        |  |                        |           |  |  |
| 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) |           |  |  |
| 2.6   | 1     | 1.5            | 4.16                   | 3.12                   | 1.74   | 0.70                   |           |  |  |
| Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.                        |       |                |                        |                        |  |                        |           |  |  |





| <b>UUT-1603-13 Keyboard</b>  |       |                |                        |  |                        |                        |
|--|-------|----------------|------------------------|--|------------------------|------------------------|
| <b>MANUFACTURER:</b> Toshiba Medical Systems Corporation   |       |                |                        |  |                        |                        |
| <b>IDENTIFICATION:</b> Model No.: BSX74-2866-02*A  |       |                |                        |  |                        |                        |
| <b>DESCRIPTION:</b> Component common to all Aquilion CT systems. Unit full of contents during test.  |       |                |                        |  |                        |                        |
| <b>MOUNTING:</b> Rigid Base mounted using (2) lines of 1" x 19" Velcro brand Industrial hook & loop tape space 5.5" apart applied to rear face of specimen and test plate. |       |                |                        |  |                        |                        |
| DIMENSIONS (in.)   |       |                |                        | LOWEST RESONANT FREQUENCY (Hz.)  |                        |                        |
| Width  | Depth | Height         | Weight (lb.)           | Front -Axis  | Side-Axis              | Vert-Axis              |
| 21   | 9.25  | 3              | 7                      | 31   | 42.5                   | 26.8                   |
| 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) |
| 2.6  | 1     | 1.5            | 4.16                   | 3.12   | 1.74                   | 0.70                   |
| Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.   |       |                |                        |  |                        |                        |

| <b>UUT-1901-1 Gantry – Type P</b>   |       |                                 |                        |  |                        |                        |
|---|-------|---------------------------------|------------------------|--|------------------------|------------------------|
| <b>MANUFACTURER:</b> Canon Medical Systems Corporation  |       |                                 |                        |  |                        |                        |
| <b>IDENTIFICATION:</b> Gantry – Type P  |       | Gantry Rear Operating Panel Kit |                        |  |                        |                        |
| Model No.: CGGT-033A/1B   |       | Model No.: CAGP-003A/1B         |                        |  |                        |                        |
| S/N: 1BB15Z7002   |       | Serial No.: 1BB15Z7002          |                        |  |                        |                        |
| <b>DESCRIPTION:</b> Component of the Aquilion Precision CT System System Labeled: Model No.: TSX-304A/1 Serial No.: 1DC17Y002 Includes Optional Gantry Rear Operating Panel Kit |       |                                 |                        |  |                        |                        |
| <b>MOUNTING:</b> Rigid Base (Floor) Mounted: (6) – 3/4" dia. SAE J429 Grade 8 Hex Head Bolts to aluminum interface plate.   |       |                                 |                        |  |                        |                        |
| <b>PROPERTIES:</b>  |       |                                 |                        |  |                        |                        |
| DIMENSIONS (in.)  |       |                                 |                        | LOWEST RESONANT FREQUENCY (Hz.)  |                        |                        |
| Width   | Depth | Height                          | Weight (lb.)           | X-Axis   | Y-Axis                 | Z-Axis                 |
| 89.4  | 37.8  | 75.8                            | 5314                   | 1.32   | 7.16                   | 24.29                  |
| ICC-ES AC156 SHAKE TABLE TEST PARAMETERS  |       |                                 |                        |  |                        | CODE: 2019 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                             | 3.20                   | 2.40   | 1.68                   | 0.68                   |
| 2.5   | 0     |                                 |                        |  |                        |                        |
| Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.  |       |                                 |                        |  |                        |                        |


| <b>UUT-1901-2 Patient Couch – High Capacity – Extended</b>   |              |                |                        |  |                        |                        |
|--|--------------|----------------|------------------------|--|------------------------|------------------------|
| <b>MANUFACTURER:</b> Canon Medical Systems Corporation   |              |                |                        |  |                        |                        |
| <b>IDENTIFICATION:</b> Model No.: CBTB-034A / 1A<br>S/N.: 1AB15Z7004   |              |                |                        |  |                        |                        |
| <b>DESCRIPTION:</b> Component of the Aquilion Precision CT System<br><br>*Tested Depth = 136"<br>**Tested Height = 34"       |              |                |                        |  |                        |                        |
| <b>MOUNTING:</b> Rigid Base (Floor) Mounted:<br>(6) – 5/8" dia. SAE J429 Grade 5 Hex Head Bolts to aluminum interface plate. |              |                |                        |  |                        |                        |
| <b>PROPERTIES:</b>   |              |                |                        |  |                        |                        |
| DIMENSIONS (in.)   |              |                |                        | LOWEST RESONANT FREQUENCY (Hz.)  |                        |                        |
| Width  | Depth        | Height         | Weight (lb.)           | X-Axis   | Y-Axis                 | Z-Axis                 |
| 26.8   | 102 – 183.9* | 21.3 - 41.9**  |                        | 1618   | 2.99                   | 4.70                   |
| ICC-ES AC156 SHAKE TABLE TEST PARAMETERS   |              |                |                        |  |                        | CODE: 2019 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<br>2.5   | 1<br>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-1901-3 Patient Couch – High Capacity – Extended w/ Lateral Movement Kit</b>  |              |                |                        |  |                        |                        |
|---|--------------|----------------|------------------------|--|------------------------|------------------------|
| <b>MANUFACTURER:</b> Canon Medical Systems Corporation  |              |                |                        |  |                        |                        |
| <b>IDENTIFICATION:</b> Patient Couch Lateral Movement Kit<br>Model No.: CBTB-034A / 1A Model No.: CALU-002A / 1B<br>S/N.: 1AB1967003 S/N.: 1BB1967001 |              |                |                        |  |                        |                        |
| <b>DESCRIPTION:</b> Component of the Aquilion Precision CT System<br><br>*Tested Depth = 136"<br>**Tested Height = 34"                                |              |                |                        |  |                        |                        |
| <b>MOUNTING:</b> Rigid Base (Floor) Mounted:<br>(6) – 5/8" dia. SAE J429 Grade 5 Hex Head Bolts to aluminum interface plate.                          |              |                |                        |  |                        |                        |
| <b>PROPERTIES:</b>  |              |                |                        |  |                        |                        |
| DIMENSIONS (in.)  |              |                |                        | LOWEST RESONANT FREQUENCY (Hz.)  |                        |                        |
| Width   | Depth        | Height         | Weight (lb.)           | X-Axis   | Y-Axis                 | Z-Axis                 |
| 26.8  | 102 – 183.9* | 24.8 - 41.9*   |                        | 1985   | 3.07                   | 7.52                   |
| ICC-ES AC156 SHAKE TABLE TEST PARAMETERS  |              |                |                        |  |                        | CODE: 2019 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<br>2.5  | 1<br>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-1901-4 NAVI Box – Type A</b>  |        |                |                        |  |                        |                        |
| <b>MANUFACTURER:</b> Canon Medical Systems Corporation   |        |                |                        |  |                        |                        |
| <b>IDENTIFICATION:</b> Model No.: KCCN-019A / 1B<br>S/N.: 1BB1667005   |        |                |                        |  |                        |                        |
| <b>DESCRIPTION:</b> Component of the Aquilion Precision CT System  |        |                |                        |  |                        |                        |
| <b>MOUNTING:</b> <u>Countertop (Attached) Mounted:</u><br>(4) – #10 x 3/4" pan head coarse threaded sheet metal screws       |        |                |                        |  |                        |                        |
| <b>PROPERTIES:</b>   |        |                |                        |  |                        |                        |
| <b>DIMENSIONS (in.)</b>  |        |                |                        | <b>LOWEST RESONANT FREQUENCY (Hz.)</b>   |                        |                        |
| Width  | Depth  | Height         | Weight (lb.)           | X-Axis   | Y-Axis                 | Z-Axis                 |
| 7.9  | 12.2   | 13.8           | 28                     | >50  | 45.16                  | 44.46                  |
| <b>ICC-ES AC156 SHAKE TABLE TEST PARAMETERS</b>  |        |                |                        |  |                        | <b>CODE: 2019 CBC</b>  |
| 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<br>2.5   | 1<br>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-1901-5 CON Box – Type P</b>  |        |                |                        |  |                        |                        |
| <b>MANUFACTURER:</b> Canon Medical Systems Corporation  |        |                |                        |  |                        |                        |
| <b>IDENTIFICATION:</b> Model No.: KCCN-019A / 1B<br>S/N.: 1BB1667005  |        |                |                        |  |                        |                        |
| <b>DESCRIPTION:</b> Component of the Aquilion Precision CT System   |        |                |                        |  |                        |                        |
| <b>MOUNTING:</b> <u>Rigid Base (Floor) Mounted:</u><br>(6) – 5/8" dia. SAE J429 Grade 5 Hex Head Bolts to aluminum interface plate. |        |                |                        |  |                        |                        |
| <b>PROPERTIES:</b>  |        |                |                        |  |                        |                        |
| <b>DIMENSIONS (in.)</b>   |        |                |                        | <b>LOWEST RESONANT FREQUENCY (Hz.)</b>   |                        |                        |
| Width   | Depth  | Height         | Weight (lb.)           | X-Axis   | Y-Axis                 | Z-Axis                 |
| 25.6  | 37.8   | 68.1           | 1037                   | 10.11  | 25.35                  | 24.77                  |
| <b>ICC-ES AC156 SHAKE TABLE TEST PARAMETERS</b>   |        |                |                        |  |                        | <b>CODE: 2019 CBC</b>  |
| 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<br>2.5  | 1<br>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-1901-6 AiCE / FIRST i-Rec Box</b>   |        |  |                        |                                 |                        |                        |
| <b>MANUFACTURER:</b> Canon Medical Systems Corporation   |        |  |                        |                                 |                        |                        |
| <b>IDENTIFICATION:</b> Model No.: CCRS-002A / 1C<br>S/N.: 1CB1667004   |        |  |                        |                                 |                        |                        |
| <b>DESCRIPTION:</b> Component of the Aquilion Precision CT System<br><br>Requires use of seismic kit P/N: ANC-CA-CCRS        |        |  |                        |                                 |                        |                        |
| <b>MOUNTING:</b> Rigid Base (Floor) Mounted:<br>(6) – 5/8" dia. SAE J429 Grade 5 Hex Head Bolts to aluminum interface plate. |        |  |                        |                                 |                        |                        |
| <b>PROPERTIES:</b>   |        |  |                        |                                 |                        |                        |
| DIMENSIONS (in.)   |        |  |                        | LOWEST RESONANT FREQUENCY (Hz.) |                        |                        |
| Width  | Depth  | Height   | Weight (lb.)           | X-Axis                          | Y-Axis                 | Z-Axis                 |
| 14.7   | 32.2   | 23.6   | 224                    | 19.97                           | >50                    | >50                    |
| ICC-ES AC156 SHAKE TABLE TEST PARAMETERS   |        |  |                        |                                 |                        | CODE: 2019 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<br>2.5   | 1<br>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-1901-7 Patient Couch – High Capacity – Compact</b>  |               |  |                        |                                 |                        |                        |
| <b>MANUFACTURER:</b> Canon Medical Systems Corporation   |               |  |                        |                                 |                        |                        |
| <b>IDENTIFICATION:</b> Model No.: CBTB-034B / 1A<br>S/N.: 1AA1667001   |               |  |                        |                                 |                        |                        |
| <b>DESCRIPTION:</b> Component of the Aquilion Precision CT System<br><br>*Tested Depth = 124.5"<br>**Tested Height = 34"     |               |  |                        |                                 |                        |                        |
| <b>MOUNTING:</b> Rigid Base (Floor) Mounted:<br>(6) – 5/8" dia. SAE J429 Grade 5 Hex Head Bolts to aluminum interface plate. |               |  |                        |                                 |                        |                        |
| <b>PROPERTIES:</b>   |               |  |                        |                                 |                        |                        |
| DIMENSIONS (in.)   |               |  |                        | LOWEST RESONANT FREQUENCY (Hz.) |                        |                        |
| Width  | Depth         | Height   | Weight (lb.)           | X-Axis                          | Y-Axis                 | Z-Axis                 |
| 26.8   | 90.5 – 160.6* | 21.3 – 41.9**  | 1573                   | 3.40                            | 18.65                  | 8.36                   |
| ICC-ES AC156 SHAKE TABLE TEST PARAMETERS   |               |  |                        |                                 |                        | CODE: 2019 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<br>2.5   | 1<br>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**

|  |        |  |                        |                                 |                        |                        |
|--|--------|--|------------------------|---------------------------------|------------------------|------------------------|
| <b>UUT-1901-8 Keyboard</b>   |        |  |                        |                                 |                        |                        |
| <b>MANUFACTURER:</b> Canon Medical Systems Corporation   |        |  |                        |                                 |                        |                        |
| <b>IDENTIFICATION:</b> Model No.: BSX74-2866-01*B  |        |  |                        |                                 |                        |                        |
| S/N.: G5000234   |        |  |                        |                                 |                        |                        |
| <b>DESCRIPTION:</b> Component of the Aquilion Precision CT System<br><br>Requires use of seismic kit P/N ANC-CA-002NAVI      |        |  |                        |                                 |                        |                        |
| <b>MOUNTING:</b> Countertop Attached Mounted:<br>(2) 1" x 7.5" INDUSTRIAL STRENGTH HOOK AND LOOP                             |        |  |                        |                                 |                        |                        |
| <b>PROPERTIES:</b>   |        |  |                        |                                 |                        |                        |
| DIMENSIONS (in.)   |        |  |                        | LOWEST RESONANT FREQUENCY (Hz.) |                        |                        |
| Width  | Depth  | Height   | Weight (lb.)           | X-Axis                          | Y-Axis                 | Z-Axis                 |
| 20.5   | 3.5    | 9.5  | 6.5                    | >50                             | 35.36                  | 36.20                  |
| ICC-ES AC156 SHAKE TABLE TEST PARAMETERS   |        |  |                        |                                 |                        | CODE: 2019 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<br>2.5   | 1<br>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-2005-1 CON Box – Type P</b>   |        |   |                        |                                 |                        |                        |
| <b>MANUFACTURER:</b> Canon Medical Systems Corporation   |        |  |                        |                                 |                        |                        |
| <b>IDENTIFICATION:</b> Model No.: CKCN-019A / 2B   |        |   |                        |                                 |                        |                        |
| S/N.: 2BA2067001   |        |   |                        |                                 |                        |                        |
| <b>DESCRIPTION:</b> Component of the Aquilion Precision CT System  |        |   |                        |                                 |                        |                        |
| <b>MOUNTING:</b> Rigid Base (Floor) Mounted:<br>(6) – 5/8" dia. SAE J429 Grade 5 Hex Head Bolts to aluminum interface plate. |        |   |                        |                                 |                        |                        |
| <b>PROPERTIES:</b>   |        |   |                        |                                 |                        |                        |
| DIMENSIONS (in.)   |        |   |                        | LOWEST RESONANT FREQUENCY (Hz.) |                        |                        |
| Width  | Depth  | Height  | Weight (lb.)           | X-Axis                          | Y-Axis                 | Z-Axis                 |
| 25.6   | 37.8   | 68.1  | 1037                   | 18.32                           | 9.16                   | 14.83                  |
| ICC-ES AC156 SHAKE TABLE TEST PARAMETERS   |        |   |                        |                                 |                        | CODE: 2019 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<br>2.5   | 1<br>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. |        |   |                        |                                 |                        |                        |