APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0631

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Canon Medical Systems Corporation

Manufacturer's Technical Representative: Krystal Ouren

Mailing Address: 2441 Michelle Drive, Tustin, CA 92780

Telephone: (949) 540-5781 Email: kouren@us.medical.canon

Product Information

Product Name: See Attachment 1, Table 1

Product Model Number(s): See Attachment 1, Table 1

Product Category: CT Systems

Product Sub-Category: CT Systems

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 for diagnostic assessment of trauma.

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

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: EASE

Contact Person: Jonathan Roberson

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

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

Title: SE

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: EASE LLC

Name: Jonathan Roberson California License Number: S4197

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

Telephone: (951) 295-1892 Email: jon@EASECo.com

Certification Method

- [ ] GR-63-Core
- [X] ICC-ES AC156
- [ ] IEEE 344
- [ ] IEEE 693
- [ ] NEBS 3
- [ ] Other (Please Specify):

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657 Email: jeremy@etldallas.com

Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = See Attachment 1, Table 1

S_{DS} (Design spectral response acceleration at short period, g) = See Attachment 1, Table 1

a_p (Amplification factor) = See Attachment 1, Table 1

R_p (Response modification factor) = See Attachment 1, Table 1

Ω_0 (System overstrength factor) = See Attachment

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

Natural frequencies (Hz) = See Attachment 2

Overall dimensions and weight = See Attachment 2

HCAI Approval (For Office Use Only) - Approval Expires on 03/09/2032

Date: 3/9/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: S_{DS} (g) = See Attachment 1, Table 1 z/h = 1

Condition of Approval (if applicable):

TABLE 1:

Manufacturer	**CANON MEDICAL SYSTEMS CORPORATION**	**S_{DS} = 2.0 at z/h = 1** **S_{DS} = 2.5 at z/h = 0**
System	**Aquilion Prime SP (TSX-303B/8)**	

Component	Model No.	Approx. Dimensions [in] W	D	H	Wt. [lb]	Mount	Basis [1]	F_P/W_P	a_P	R_P	Ω_0
CT GANTRIES											
Aquilion CT Scanner Gantry - Type D	*CGGT-032A/3A*	*84.7*	*34.25*	*73*	*4061*	*Rigid Base*	*UUT-1703-4*	*2.40* *1.13*	*1*	*1 ½*	*2*
w/ Optional Gantry Rear Operating Panel Kit	*CAGP-002A/3B*										
Aquilion CT Scanner Gantry - Type D	CGGT-032A/4A	89.4	37.8	75.8	5171	Rigid Base	INT	2.40 1.13	1	1 ½	2
w/ Optional Gantry Rear Operating Panel Kit	CAGP-002A/3B										
Aquilion CT Scanner Gantry - Type G	*CGGT-039A/1A*	*89.4*	*37.8*	*75.8*	*5171*	*Rigid Base*	*UUT-1906-2*	*2.40* *1.13*	*1*	*1 ½*	*2*
w/ Optional Gantry Rear Operating Panel Kit	*CAGP-003A/2B*										
w/ Optional Area Finder	*CGAP-001A/1B*										
PATIENT COUCHES											
Patient Couch - High Capacity – Extended [2]	*CBTB-032A/1A*	*26*	*113.8 - 197.7*	*18.5 - 41.0*	*1512 [4]*	*Rigid Base*	*UUT-1303-2A*	*2.40* *1.13*	*1*	*1 ½*	*2*
Patient Couch - High Capacity – Extended [2]	CBTB-032A/8A	26	113.8 - 197.7	18.5 - 41.0	1512	Rigid Base	SAME AS UUT-1303-2A	2.40 1.13	1	1 ½	2
Patient Couch – High Capacity – Extended	CBTB-032A/8A	26.0	113.8 - 197.7	18.5 - 41.0	1950 [4]	Rigid Base	UUT-2006-1	2.40 1.13	1	1 ½	2
w/ Optional Lateral Movement Kit	CALU-001A/6B										
w/ Optional CT Fluoro [3]	TSXF-004A/3B										
Patient Couch - High Capacity - Extended	CBTB-032A/8A	26	113.8 - 197.7	18.5 - 41.0	1512	Rigid Base	INT	2.40 1.13	1	1 ½	2
w/ Optional Lateral Movement Kit	CALU-001A/6B	---	---	3.5	396						
Patient Couch - High Capacity - Compact	CBTB-032B/8A	26	94.1 - 158.4	18.5 - 41.0	1445	Rigid Base	INT	2.40 1.13	1	1 ½	2
w/ Optional Lateral Movement Kit	CALU-001A/6B	---	---	3.5	396						
Patient Couch - High Capacity – Compact [2]	CBTB-032B/8A	26	94.1 - 158.4	18.5 - 41.0	1445	Rigid Base	INT	2.40 1.13	1	1 ½	2
Patient Couch – High Capacity – Compact	CBTB-032B/8A	26.0	94.1 - 158.4	22.3 - 41	1893	Rigid Base	INT	2.40 1.13	1	1 ½	2
w/ Optional Lateral Movement Kit	CALU-001A/6B										
w/ Optional CT Fluoro [3]	TSXF-004A/4B										

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TABLE 1:

Manufacturer	**CANON MEDICAL SYSTEMS CORPORATION**	**S_{DS} = 2.0 at z/h = 1** **S_{DS} = 2.5 at z/h = 0**
System	**Aquilion Prime SP (TSX-303B/8)**	

Component	Model No.	Approx. Dimensions [in] W	D	H	Wt. [lb]	Mount	Basis [1]	F_P/W_P	a_P	R_P	Ω_0
PATIENT COUCHES (continued)											
Patient Couch – High Capacity – Compact [2]	CBTB-032B/8A	26.0	94.1 - 158.4	18.5 - 41	1497	Rigid Base	INT	2.40 1.13	1	1 ½	2
w/ Optional CT Fluoro [3]	TSXF-004A/4B										
Patient Couch – High Capacity – Extended [2]	CBTB-032A/8A	26.0	113.8 - 197.7	18.5 - 41.0	1554 [4]	Rigid Base	UUT-2006-2	2.40 1.13	1	1 ½	2
w/ Optional CT Fluoro [3]	TSXF-004A/3B										
CONSOLE COMPONENTS											
Con Box - Type B [5]	CKCN-020C/1B	23.2	37.6	53.7	617	Rigid Base	UUT-2002-7	1.44 1.13	1	2 ½	2
Con Box - Type B [5]	CKCN-020C/1B	23.2	37.6	53.7	651	Rigid Base	UUT-2002-8	1.44 1.13	1	2 ½	2
w/ Optional Display Console Kit	CGS-72B/1B										
NAVI Box – Type A [6]	*CKCN-017B/2B*	*7.9*	*12.2*	*13.8*	*28*	*CTA*	*UUT-1703-5*	*1.44 1.13*	*1*	*2 ½*	*2*
NAVI Box – Type A [6]	CKCN-020C/1B	7.9	12.2	13.8	28	CTA	SAME AS UUT-1703-5	1.44 1.13	1	2 ½	2
POWER DISTRIBUTION											
Power Distributor - Type D	CETF-006C/2A	33.5	26.8	48.8	1238	Rigid Base	UUT-1703-7	1.44 1.13	1	2 ½	2
w/ Optional UPS Kit for Power Distributor	CEUC-001B/4B										
USER INTERFACE											
Monitor (Mfr: EIZO)	MX-192	16.3	8.1	16.1 - 21.5	13	CTA	UUT-1603-6	1.44 1.13	1	2 ½	2
Keyboard (scan)	*BSX74-2866-01*B*	*21*	*9.25*	*3.0*	*7*	*CTA*	*UUT-1901-8*	*1.44 1.13*	*1*	*2 ½*	*2*
Keyboard (scan)	BSX74-2866-01*D	21	9.25	3.0	7	CTA	SAME AS UUT-1901-8	1.44 1.13	1	2 ½	2
Keyboard (display)	*BSX74-2866-02*A*	*21*	*9.25*	*3.0*	*7*	*CTA*	*UUT-1603-13*	*1.44 1.13*	*1*	*2 ½*	*2*
Keyboard (display)	BSX74-2866-02*D	21	9.25	3.0	7	CTA	SAME AS UUT-1603-13	1.44 1.13	1	2 ½	2

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TABLE 1:

Manufacturer	**CANON MEDICAL SYSTEMS CORPORATION**	**S_{DS} = 2.0 at z/h = 1** **S_{DS} = 2.5 at z/h = 0**
System	**Aquilion Prime SP (TSX-303B/8)**	

Component	Model No.	Approx. Dimensions [in] W	D	H	Wt. [lb]	Mount	Basis [1]	F_P/W_P	a_P	R_P	Ω_0
Mount	Rigid Base: free-standing, base-mounted configuration with the component rigidly attached to a supporting structure and no lateral support above the base. CTA (Countertop Anchored): refers to a condition where the unit is anchored to a counter, desk, or other piece of rigid fixed furniture.										
Notes	1. BASIS: • "UUT-#" indicates that a test specimen matching these characteristics was tested as part of a seismic test program. • "SAME" indicates component is physically, mechanically, and electrically the same as another test specimen with differences limited to model number, color, and/or software. • "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. 2. Patient Couch – High Capacity (without Lateral Kit) requires the use of Seismic Kit P/N: ANC-CA-CBTB032 3. CT Fluoro Option requires the use of seismic kit Model No. PX79-68940-1 4. Patient Couch weight does not include 660 lb Max Patient Load 5. Con Box – Type B requires the use of Seismic Kit P/N: ANC-CA-002COX 6. NAVI Box – Type A requires the use of seismic kit P/N: ANC-CA-002NAVI 7. *Gray italic formatting indicates unit is not a component of system and used as basis for seismic qualification only.*										

ATTACHMENT 3: TEST SUMMARY

UUT	REPORT NUMBER	TEST DATE	TEST FACILITY	REPORT UUT
1303-2A	SQ37130301	September 17-19, 2013	Environmental Testing Laboratory, Inc.	2A
1603-6	SQ37160301	August 23-27, 2016	Environmental Testing Laboratory, Inc.	6
1603-13				13
1703-4	SQ37170301	September 25-27, 2017	Environmental Testing Laboratory, Inc.	4
1703-5				5
1703-7				7
1901-8	SQ37190101	February 5-7, 2019 August 11-15, 2019	Environmental Testing Laboratory, Inc.	8
1906-2	SQ37190601	August 20-23, 2019	Environmental Testing Laboratory, Inc.	2
2002-7	SQ37200201	August 22-23, 2019	Environmental Testing Laboratory, Inc.	7
2002-8				8
2006-1	SQ37200601	August 24-26, 2021	Environmental Testing Laboratory, Inc.	1
2006-2				2