APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0878

HCAI Special Seismic Certification Preapproval (OSP)

Type: [X] New [ ] Renewal

Manufacturer Information

Manufacturer: GE Healthcare

Manufacturer's Technical Representative: Tom Farnow

Mailing Address: 3000 N. Grandview Blvd., Waukesha, WY 53188

Telephone: (888) 406-1101 Email: tom.farnow@gehcseismic.com

Product Information

Product Name: Aurora

Product Model Number(s): See Attachment 1

Product Category: CT Systems

Product Sub-Category: CT Systems

General Description: System components of a multiple-component SPECT/CT imaging system. Special Seismic Certification is limited to components of the system identified in Attachment 1 for functions related to Computed Tomography (CT) imaging services for the diagnostic assessment of trauma.

Mounting Description: Base Mounted Rigid

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 LLC

Contact Person: Jonathan Roberson

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

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

Title: Principal Structural Engineer

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 ☒ 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

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal	(A Flx-H), g=	3.20	(A Rig-H), g=	2.15
Vertical	(A Flx-V), g=	1.68	(A Rig-V), g=	0.68

S_{DS} (Design spectral response acceleration at short period, g) = 2.5 @ z/h=0; 2.00 @ z/h=1

Hf (Force amplification height factor) = 1 @ z/h=0; 3.5 @ z/h=1

Ru (Structure ductility redution factor) = 1 @ z/h=0; 1.3 @ z/h=1

I_p (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 04/12/2032

Date: 4/10/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable):

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1:

BUILDING CODE: 2025 CBC

Manufacturer	**GE Healthcare**
System	**Aurora**
Product Type	**NM/CT System**

Seismic Parameters

S_{DS} = 2.00 at z/h = 1 R_μ = 1.3; H_f = 3.5

S_{DS} = 2.50 at z/h = 0 R_μ = 1.0; H_f = 1.0

COMPONENT	MODEL NO.	DIMENSIONS (IN.) W	D	H	APPROX. WT. (LB.)	MOUNT	BASIS [1]
GANTRIES							
Aurora NM Gantry	5376204-70-80 [2]	84.7	120.2	78.7	8808	Rigid Base	UUT-2517-1
Aurora Revolution Ascend CT Gantry	6966000-350 [3]						
Aurora NM Gantry	5376204-70-80 [2]	84.7	120.2	78.7	8808	Rigid Base	SAME
Aurora Revolution Ascend CT Gantry	6966000-150 [3]						
PATIENT TABLES							
Aurora Hybrid Patient Table	5363260-80 [4]	24	110.1	44.4	1228	Rigid Base	UUT-2517-2
CONSOLES							
Z4G5 NM Console (HP)	5966435-11 [5]	6.65	17.5	15.2	26	Rigid Base	UUT-2517-3
NM Operator Console (HP)	*5370540-95 [6]*	*6.65*	*17.5*	*15.2*	*25*	*Rigid Base*	*UUT-1819-8*
Z4G4 Aurora NM Console (HP)	5966435-01 [5]	6.65	17.5	15.2	25	Rigid Base	SAME
Z4G4 Aurora NM Console (HP)	5966435-02 [5]	6.65	17.5	15.2	25	Rigid Base	SAME
Operator Console – Standalone (HP)	*5940104-31 [7]*	*23.6*	*25.6*	*21.0*	*132*	*Rigid Base*	*UUT-2201-2*
Operator Console – Standalone (HP)	5940104-11 [8]	23.6	25.6	21.0	132	Rigid Base	SAME
Operator Console – Standalone (HP)	5940104-21 [8]	23.6	25.6	21.0	132	Rigid Base	SAME
Operator Console – Standalone II (HP)	5940104-12 [8]	23.6	25.6	21.0	130	Rigid Base	UUT-2416-1
Operator Console – Standalone II (HP)	5940104-22 [8]	23.6	25.6	21.0	130	Rigid Base	SAME
POWER DISTRIBUTION							
Power Distribution Unit (PDU)	*2326492-80*	*27.6*	*21.7*	*41.8*	*841 [10]*	*Rigid Base*	*UUT-1126-3*
Power Distribution Unit (PDU)	2326492-81	27.6	21.7	41.8	841	Rigid Base	SAME
Power Input Distribution Box (PIDB)	*5375888-01*	*19.7*	*6.13*	*19.7*	*22.5*	*Wall*	*UUT-1133-3*
Power Input Distribution Box (PIDB)	5375888	19.7	6.13	19.7	22.5	Wall	SAME

Table continues next page.

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1: (continued)

BUILDING CODE: 2025 CBC

Manufacturer	**GE Healthcare**	**Seismic Parameters**
System	**Aurora**	S_{DS} = 2.00 at z/h = 1 R_μ = 1.3; H_f = 3.5
Product Type	**NM/CT System**	S_{DS} = 2.50 at z/h = 0 R_μ = 1.0; H_f = 1.0

COMPONENT	MODEL NO.	DIMENSIONS (IN.) W	D	H	APPROX. WT. (LB.)	MOUNT	BASIS [1]
Mount	Rigid Base: free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base. Wall: fully supported by a rigid building wall or partition.						
Notes	1. BASIS: • UUT-#: Indicates that a test specimen matching these characteristics was tested. See Attachment 2. • SAME: Indicates model is physically, mechanically & electrically the same as test specimen. Differences are limited to color, software, and/or identification number. 2. Requires use of seismic kits: P/N 6001790 & P/N 5824496. 3. Requires use of seismic kit: P/N 6001676. 4. Requires use of seismic kit: P/N 6001675. 5. Requires use of seismic kit: P/N 5973645. 6. *Requires use of GE Healthcare System Seismic Kit H3909CY or equivalent (NM/CT850/860).* 7. *Requires use of seismic kit 5881922 (Commercial Catalog B77162RE).* 8. Requires use of seismic kit: P/N 5873550. 9. All seismic kits identified above for components that are part of the Aurora System are included in the collector seismic kit: Aurora System Seismic Option P/N 6001674 (also referenced as GE Healthcare Catalog No. H3913DD & B84792DA). 10. Weight includes mounting brackets used in test. 11. *Gray italic formatting indicates unit is not a component of system and used as basis for seismic qualification only.*						

UUT-2517-1 Aurora NM/CT Gantry

MANUFACTURER: GE Medical Systems

IDENTIFICATION:

	Model No.	Serial No.
NM Gantry	5376204-70-80	830D60703
Revolution Ascend Plus CT Gantry	6966000-350	NGXAH2500001CN

DESCRIPTION: Component of Aurora NM/CT System

NM Gantry is production equivalent engineering unit
CT Gantry is standard production

NM Gantry requires use of seismic kits: P/N 6001790 & P/N 5824496.
CT Gantry requires use of seismic kit: P/N 6001676.
*Measured weight is within 0.5% of Reported Wt.= 8808 lb.

MOUNTING: Rigid Base (Floor) mounted using (8) – M10 Class 8.8 bolts through steel sleeves extracted from Hitli HSL4 (or HSL3) anchors. Torque = 18 ft-lb. (CT Gantry) and (4) – M12 Class 8.8 bolts through steel sleeves extracted from Hitli HSL4 (or HSL3) anchors. Torque = 44 ft-lb. (NM Gantry)

Dimensions (in.)				Lowest Resonant Frequency (Hz)		
Width	Depth	Height	Weight (lb)	Side (X) - Axis	Front (Y) - Axis	Vertical (Z) - Axis
84.7	120.2	78.7	8765*	4.36	4.75	4.81

ICC-ES AC156 (24) 2nd Edition Test Parameters — **Building Code: 2025 CBC**

S_{DS}	z/h	R_μ	H_f	I_P	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
2.00 2.50	1 0	1.3 1.0	3.5 1.0	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.

UUT-2517-2 Aurora Hybrid Patient Table

MANUFACTURER: GE Medical Systems Israel

IDENTIFICATION: Model No.: 5363260-80
Serial No.: MAVSHO001

DESCRIPTION: Component of Aurora NM/CT System

Requires use of seismic kit: P/N 6001675.

* Tested Depth =246"
Ŧ Measured weight is within 0.1% of Reported Wt.= 1228 lb.

MOUNTING: Rigid Base (Floor) mounted using (20) – M10 Class 8.8 Bolts in steel sleeve extracted from Hilti HSL-3 M10/20 anchors

Dimensions (in.)				Lowest Resonant Frequency (Hz)		
Width	Depth	Height	Weight (lb)	Side (X) - Axis	Front (Y) - Axis	Vertical (Z) - Axis
24.0	110.1 – 246.3*	44.4	1229 Ŧ	2.97	24.72	3.17

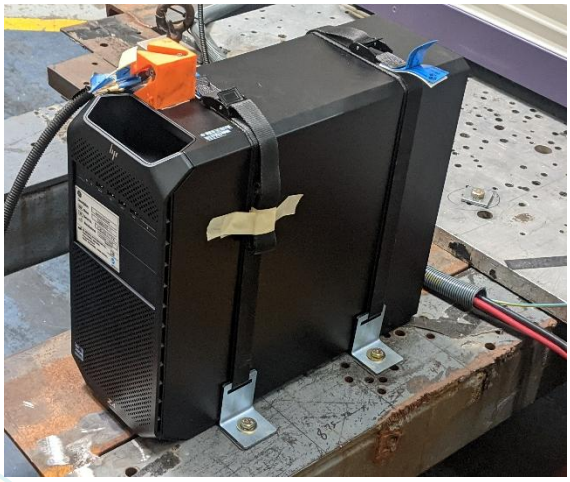
ICC-ES AC156 (24) 2nd Edition Test Parameters — **Building Code: 2025 CBC**

S_{DS}	z/h	R_μ	H_f	I_P	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
2.00 2.50	1 0	1.3 1.0	3.5 1.0	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.

UUT-2517-3 NM Console (Z4G5)

MANUFACTURER:	Hewlett Packard
IDENTIFICATION:	GE Label Model No.: 5966435-11 Serial No.: CZC5217TFK HP Label Product No.: 57K35AV Serial No.: CZC5217TFK
DESCRIPTION:	Component of Aurora NM/CT System. Requires use of seismic kit: P/N 5973645.
MOUNTING:	Rigid Base (Floor) mounted using a strap assembly at front and rear. Each strap assembly consisting of: • 1" wide polyester strap w/ metal cam buckle (200 lb working load) looped through slots in vertical legs of • (2) – L2½ x 2" x 4.5mm x 0'-2" LLV brackets positioned snug against unit. Each bracket attached w/ 3/8" diameter SAE J429 Grade 8 Hex Head bolt w/ Standard Washer threaded into aluminum plate. (1 set ea. front & rear, 4 bolts total.)



Dimensions (in.)				Lowest Resonant Frequency (Hz)		
Width	Depth	Height	Weight (lb)	Front (X) - Axis	Side (Y) - Axis	Vertical (Z) - Axis
6.65	17.5	15.2	24.0 w/o mount kit 26.1 w/ mount kit	32.70	17.41	12.10

ICC-ES AC156 (24) 2nd Edition Test Parameters — **Building Code: 2025 CBC**

S_{DS}	z/h	R_μ	H_f	I_P	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
2.00 2.50	1 0	1.3 1.0	3.5 1.0	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.

UUT-1819-8 NM Operator Console (HP)

MANUFACTURER:	Hewlett Packard
IDENTIFICATION:	Model No.: 5370540-95 Serial No.: CZC52800CT
DESCRIPTION:	Component of the NM/CT 860 system; included as basis for component of Aurora NM/CT System. Component used in several GE Healthcare NM/CT systems: NM/CT 870 DR, NM/CT 870 CZT, NM/CT 860, NM/CT 850 HP Z4 G4 computer.
MOUNTING:	Rigid Base (Floor) mounted using a strap assembly at front and rear. Each strap assembly consisting of: • 1" wide nylon strap w/ metal cam buckle (50 lb tension / 200 lb WLL) looped through slots in vertical legs of • (2) – L2½ x 2" x ⅛" x 0'-2" LLV brackets positioned snug against unit. Each bracket attached w/ 3/8" diameter SAE J429 Grade 8 threaded into aluminum plate. (1 set ea. front & rear, 4 bolts total.)

Dimensions (in.)				Lowest Resonant Frequency (Hz)		
Width	Depth	Height	Weight (lb)	Front (X) - Axis	Side (Y) - Axis	Vertical (Z) - Axis
6.65	17.5	15.2	25	32.89	30.96	35.15

ICC-ES AC156 (24) 2nd Edition Test Parameters — **Building Code: 2025 CBC**

S_{DS}	z/h	R_μ	H_f	I_P	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
2.00 2.60	1 0	1.3 1.0	3.5 1.0	1.5	3.20	2.40	1.74	0.70

Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

UUT-2201-2 Operator Console - Standalone

MANUFACTURER:	GE Healthcare Japan Corporation
IDENTIFICATION:	Model No.: 5940104-31 Serial No.: SACENG002
DESCRIPTION:	Component of Revolution Ascend CT System; included as basis for component of Aurora NM/CT System. Includes: HP Z8 G4 Workstation (ID No.: 5809620-7 Serial No.: 4CV907WMT2) GE Healthcare Power Box (ID No.: 5808401-2 Serial No.: DW2003029) Unit requires the use of Seismic Kit 5881922 which contains mounting bracket hardware.
MOUNTING:	Rigid Base: mounted using (3) – 3/8" dia. hex head bolts to interface plate.

Dimensions (in.)				Lowest Resonant Frequency (Hz)		
Width	Depth	Height	Weight (lb)	Side (X) - Axis	Front (Y) - Axis	Vertical (Z) - Axis
23.6	25.6	21.0	132	24.62	31.57	20.89

ICC-ES AC156 (24) 2nd Edition Test Parameters — **Building Code: 2025 CBC**

S_{DS}	z/h	R_μ	H_f	I_P	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
2.00 2.50	1 0	1.3 1.0	3.5 1.0	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.

UUT-2416-1 Operator Console – Standalone II

MANUFACTURER:	GE Hangwei Medical Systems Co., LTD
IDENTIFICATION:	Model No.: 5940104-12 Serial No.: 7DC497S369
DESCRIPTION:	Component of Revolution Ascend CT Family (as tested). Includes: HP Z8 G5 Workstation (ID No.: 67V63AV Serial No.: 4CE339CG3Z) GE Healthcare Power Box (ID No.: 5808401-2 Serial No.: DW2402030) Unit requires the use of Seismic Kit 5873550 which contains mounting bracket hardware.
MOUNTING:	Rigid Base: mounted using (3) – 3/8" dia. hex head bolts to interface plate.

Dimensions (in.)				Lowest Resonant Frequency (Hz)		
Width	Depth	Height	Weight (lb)	Side (X) - Axis	Front (Y) - Axis	Vertical (Z) - Axis
23.6	25.6	20.9	129.5	10.4	17.9	14.1

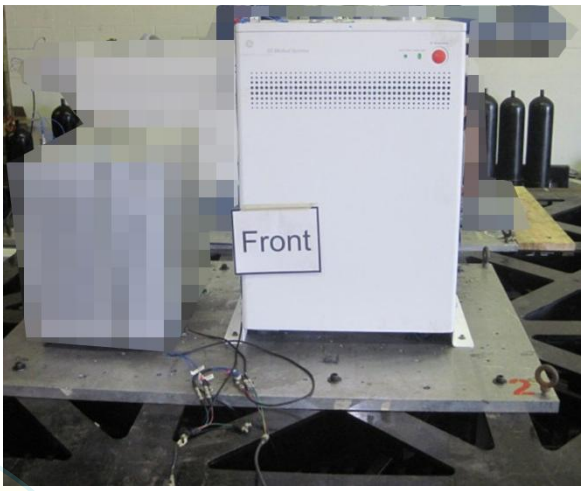
ICC-ES AC156 (24) 2nd Edition Test Parameters — **Building Code: 2025 CBC**

S_{DS}	z/h	R_μ	H_f	I_P	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
2.00 2.50	1 0	1.3 1.0	3.5 1.0	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.

UUT-1126-3 Power Distribution Unit (PDU)

MANUFACTURER:	GE Hangwei Medical Systems Co., LTD
IDENTIFICATION:	Model No.: 2326492-80 Serial No.: 270337HM9
DESCRIPTION:	Component of the Optima CT660 System; included as basis for component of Aurora NM/CT System.
MOUNTING:	Rigid Base (Floor) mounted using: (2) – 3/8" dia. ASTM A574 Socket Head Cap Screws w/ washer through each GE mounting bracket to floor plate. (4 anchors total) GE mounting assembly including: (2) – Seismic Bracket, System Cabinet (P/N 2354563-2) Each bracket mounted to cabinet w/: (2) – M10 x 25mm Class 12.9 bolt (Torque= 38.4 N-m) (2) – M10 Lock Washer (P/N 2203-M10-07) (2) – M10 Flat Washer (P/N 2000-M10-03)



Dimensions (in.)				Lowest Resonant Frequency (Hz)		
Width	Depth	Height	Weight (lb)	Front (X) - Axis	Side (Y) - Axis	Vertical (Z) - Axis
27.6	21.7	41.8	841	20.4	20.6	13.8

ICC-ES AC156 (24) 2nd Edition Test Parameters — **Building Code: 2025 CBC**

S_{DS}	z/h	R_μ	H_f	I_P	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
2.00 2.50	1 0	1.3 1.0	3.5 1.0	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.

UUT-1133-3 Power Input Distribution Box (PIDB)

MANUFACTURER:	GE Medical Systems
IDENTIFICATION:	Label 1: Model No: 5375888-01; Serial No.: WC0180225/10 Label 2: H3100NA MV1
DESCRIPTION:	Component of the Discovery NM-CT 670 System; included as basis for component of Aurora NM/CT System.
MOUNTING:	Wall Mounted w/ (4) - #10 Tek screws w/ 1.25" O.D. fender washers through 5/8" gypsum board into 16 ga. steel stud.

Dimensions (in.)				Lowest Resonant Frequency (Hz)		
Width	Depth	Height	Weight (lb)	Side (X) - Axis	Front (Y) - Axis	Vertical (Z) - Axis
19.69	6.13	19.69	22.5	N/A	N/A	N/A

ICC-ES AC156 (24) 2nd Edition Test Parameters — **Building Code: 2025 CBC**

S_{DS}	z/h	R_μ	H_f	I_P	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
2.00 2.60	1 0	1.3 1.0	3.5 1.0	1.5	3.20	2.40	1.74	0.70

Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

ATTACHMENT 3: UUT SUMMARY INDEX

UUT	REPORT NUMBER	TEST DATE	TEST FACILITY	REPORT UUT
2517-1	SQ12251701	October 30 - 31, 2025	Environmental Testing Laboratory, Inc.	1
2517-2				2
2517-3				3
1819-8	SQ12181901	March 26, 2019	Environmental Testing Laboratory, Inc.	8
2201-2	SQ12220101	February 21 - 23, 2022	Environmental Testing Laboratory, Inc.	2
2416-1	SQ12241601	August 26, 2024	Environmental Testing Laboratory, Inc.	1
1126-3	SQ12112601	October 19 - 20, 2011	Environmental Testing Laboratory, Inc.	3
1133-3	SQ12113301	Nov 30 - Dec 2, 2011	Environmental Testing Laboratory, Inc.	3