



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0354

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: GE Healthcare

Manufacturer's Technical Representative: Tom Farnow

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

Telephone: (888) 406-1101

Email: Tom.Farnow@gehcseismic.com

Product Information

Product Name: Discovery RT, Discovery CT590 RT, and Optima CT580 Systems

Product Model Number(s): See Attachment 1

Product Category: CT Systems

Product Sub-Category: CT Systems

General Description: Multiple component systems for the provision of Computed Tomography medical diagnostic imaging. Seismic Certification is limited to the components identified in Attachment 1.

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: j.roberson@easeco.com

Title: Principal Engineer



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT**

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

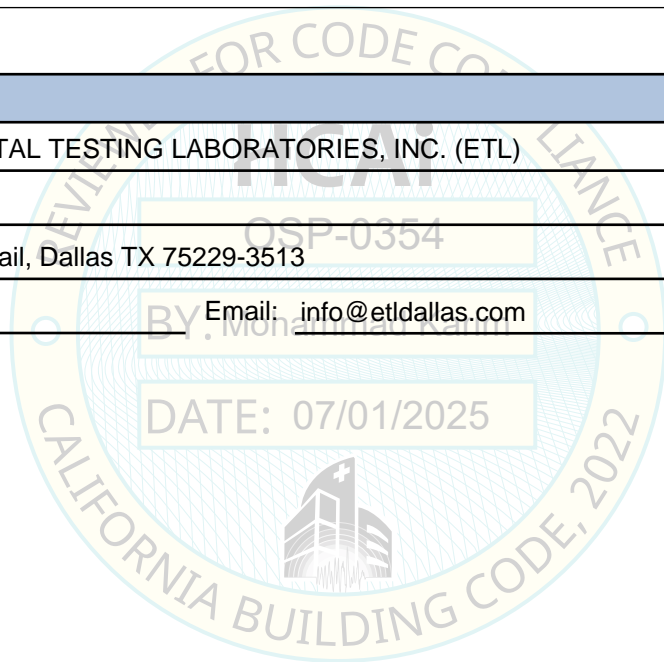
Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

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

Telephone: (972) 247-9657

Email: info@etldallas.com





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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = SEE ATTACHMENT

SDS (Design spectral response acceleration at short period, g) = 2.0 ($z/h=1$) and 2.5 ($z/h=0$)

a_p (Amplification factor) = SEE ATTACHMENT

R_p (Response modification factor) = SEE ATTACHMENT

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

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

Natural frequencies (Hz) = See Attachment 2

Overall dimensions and weight = See Attachment 1

HCAI Approval (For Office Use Only) - Approval Expires on 07/01/2031

Date: 7/1/2025

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.0

z/h = 1

Condition of Approval (if applicable):

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 1:

Manufacturer		GE HEALTHCARE							S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0		
System		DISCOVERY RT									
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀
		W	D	H							
GANTRIES ^[2]											
Optima CT580 Gantry	2374681-14	96.0	39.6	78.4	4000	Floor ^[3]	UUT-1313-3 UUT-1313-4	2.40	1	1 ½	2
Discovery RT Gantry	2374681-17	96.0	39.6	78.4	4000	Floor ^[3]	SAME	2.40	1	1 ½	2
Discovery RT Gantry	2374681-18	96.0	39.6	78.4	4000	Floor ^[3]	SAME	2.40	1	1 ½	2
PATIENT TABLES											
GT1700V	5122080-11	25.6	93.3	19.2 / 41.2	1059 ^[4]	Floor	UUT-1126-2	2.40	1	1 ½	2
GT1700 N9	5122080-3	25.6	93.3	19.2 / 41.2	1047	Floor	INT	2.40	1	1 ½	2
GT1700 N9 ED3	5122080-4	25.6	93.3	19.2 / 41.2	1047	Floor	INT	2.40	1	1 ½	2
GT2000 N9	5121647-3	25.6	114.5	19.2 / 41.3	1146 ^[5]	Floor	UUT-1408-4	2.40	1	1 ½	2
High Capacity Patient Table	5272966-3	26	115.6 / 210.9	20.6 / 41.7	1136.5 ^[6]	Floor	UUT-1313-1	2.40	1	1 ½	2
High Capacity Patient Table	5272966-2	26	115.6 / 210.9	20.6 / 41.7	1136.5	Floor	SAME	2.40	1	1 ½	2
CONSOLES											
NIO Console	5411378-23	18.5	29.1	25.8	161	Floor	UUT-1308-3	1.50	2 ½	6	2
NIO Console	5411378-25	18.5	29.1	25.8	161	Floor	SAME	1.50	2 ½	6	2
NIO Console	5411378-24	18.5	29.1	25.8	159	Floor	SAME	1.50	2 ½	6	2
Open Console 16 (TangE)	5941604-10	15.7	26.4	22.7	133	Floor	UUT-1806-5	1.44	1	2 ½	2
RT Open Console with Z840	5941604-11	15.7	26.4	22.7	133	Floor	SAME	1.44	1	2 ½	2
RT Open Console with Z840	5941604-20	15.7	26.4	22.7	133	Floor	SAME	1.44	1	2 ½	2
Open Console w/ Z8G4	5946404-15	15.8	26.4	22.7	142	Floor	UUT-1914-2	1.50	2 ½	6	2
Open Console w/ Z8G4	5941604-17	15.8	26.4	22.7	142	Floor	SAME	1.50	2 ½	6	2
Open Console w/ Z8G4	5941604-27	15.8	26.4	22.7	142	Floor	SAME	1.50	2 ½	6	2

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 2 OF 6

TABLE 1:

Manufacturer	GE HEALTHCARE								S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0			
System	DISCOVERY RT											
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀	
		W	D	H								
POWER DISTRIBUTION (PDU)												
NGPDU-61	2326492-61	27.6	21.7	41.8	818	Floor	UUT-1313-2	1.44	1	2 ½	2	
NGPDU-60	2326492-60	27.6	21.7	41.8	818	Floor	SAME	1.44	1	2 ½	2	
Mount	FLOOR (RIGID BASE) MOUNT: free-standing, base-mounted configuration with the component rigidly attached to a supporting structure and no lateral support above the base.											
Notes	<div>1. BASIS:<ul style="list-style-type: none">• UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program.• INT (Interpolate or extrapolate): indicates a model that was not specifically tested, and by which seismic qualification was established through evaluation of testing of other, similar models in the product line.• SAME: Model is physically, mechanically & electrically the same as test specimen. Differences are limited to color, software, GE manufacturing location and/or labeling.</div> <div>2. Seismic qualification limited to gantries manufactured after July 15, 2013 which include RT Integrated Bearing Bracket Part# 5480661 and Main Bearing Part #5134357 or 5112551-2 as included in the test specimens.</div> <div>3. 1" OD x 11/16 ID x 2.5" cylindrical spacers present in the test specimen leveling feet as part of the anchorage assembly shall be installed.</div> <div>4. Patient Table (GT1700V) weight does not include 350 lb. patient load present during testing.</div> <div>5. Patient Table (GT2000) weight does not include 550 lb. patient load present during testing.</div> <div>6. Patient Table (High Capacity Table) weight does not include 650 lb. patient load present during testing.</div> <div>7. <i>Gray italic formatting indicates unit is not a component of system and used only as a basis for seismic qualification.</i></div>											

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 2:

Manufacturer		GE HEALTHCARE							S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0		
System		DISCOVERY CT590 RT									
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀
		W	D	H							
GANTRIES ^[2]											
Optima CT580 Gantry	2374681-14	96.0	39.6	78.4	4000	Floor ^[3]	UUT-1313-3 UUT-1313-4	2.40	1	1 ½	2
Discovery 590 RT Gantry	2374681-12	96.0	39.6	78.4	4000	Floor ^[3]	SAME	2.40	1	1 ½	2
Discovery 590 RT Gantry	2374681-13	96.0	39.6	78.4	4000	Floor ^[3]	SAME	2.40	1	1 ½	2
PATIENT TABLES											
GT1700V	5122080-11	25.6	93.3	19.2 / 41.2	1059 ^[4]	Floor	UUT-1126-2	2.40	1	1 ½	2
GT1700 N9	5122080-3	25.6	93.3	19.2 / 41.2	1047	Floor	INT	2.40	1	1 ½	2
GT1700 N9 ED3	5122080-4	25.6	93.3	19.2 / 41.2	1047	Floor	INT	2.40	1	1 ½	2
GT2000 N9	5121647-3	25.6	114.5	19.2 / 41.3	1146 ^[5]	Floor	UUT-1408-4	2.40	1	1 ½	2
High Capacity Patient Table	5272966-3	26	115.6 / 210.9	20.6 / 41.7	1136.5 ^[6]	Floor	UUT-1313-1	2.40	1	1 ½	2
High Capacity Patient Table	5272966-2	26	115.6 / 210.9	20.6 / 41.7	1136.5	Floor	SAME	2.40	1	1 ½	2
CONSOLES											
NIO Console	5411378-23	18.5	29.1	25.8	161	Floor	UUT-1308-3	1.50	2 ½	6	2
NIO Console	5411378-25	18.5	29.1	25.8	161	Floor	SAME	1.50	2 ½	6	2
NIO Console	5411378-11	18.5	29.1	25.8	159	Floor	SAME	1.50	2 ½	6	2
NIO Console	5411378-22	18.5	29.1	25.8	159	Floor	SAME	1.50	2 ½	6	2
NIO Console	5411378-24	18.5	29.1	25.8	159	Floor	SAME	1.50	2 ½	6	2
Open Console 16 (TangE)	5941604-10	15.7	26.4	22.7	133	Floor	UUT-1806-5	1.44	1	2 ½	2
RT Open Console with Z840	5941604-11	15.7	26.4	22.7	133	Floor	SAME	1.44	1	2 ½	2
RT Open Console with Z840	5941604-20	15.7	26.4	22.7	133	Floor	SAME	1.44	1	2 ½	2
Open Console w/ Z8G4	5946404-15	15.8	26.4	22.7	142	Floor	UUT-1914-2	1.50	2 ½	6	2
Open Console w/ Z8G4	5941604-17	15.8	26.4	22.7	142	Floor	SAME	1.50	2 ½	6	2
Open Console w/ Z8G4	5941604-27	15.8	26.4	22.7	142	Floor	SAME	1.50	2 ½	6	2

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 2:

Manufacturer	GE HEALTHCARE								S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0			
System	DISCOVERY CT590 RT											
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀	
		W	D	H								
POWER DISTRIBUTION (PDU)												
NGPDU-61	2326492-61	27.6	21.7	41.8	818	Floor	UUT-1313-2	1.44	1	2 ½	2	
NGPDU-60	2326492-60	27.6	21.7	41.8	818	Floor	SAME	1.44	1	2 ½	2	
OTHER EQUIPMENT												
Freedom Workspace (FWS) Large tabletop w/ (2) Eizo LCD Monitors on table-mounted articulated arms	5168666-2	53.1	29.2	26.9 / 35.9	167 ^[7]	Floor ^[8]	UUT-1216-2	1.44	1	2 ½	2	
Mount	FLOOR (RIGID BASE) MOUNT: free-standing, base-mounted configuration with the component rigidly attached to a supporting structure and no lateral support above the base.											
Notes	<div>1. BASIS:<ul style="list-style-type: none">• UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program.• INT (Interpolate or extrapolate): indicates a model that was not specifically tested, and by which seismic qualification was established through evaluation of testing of other, similar models in the product line.• SAME: Model is physically, mechanically & electrically the same as test specimen. Differences are limited to color, software, GE manufacturing location and/or labeling.</div> <div>2. Seismic qualification limited to gantries manufactured after July 15, 2013 which include RT Integrated Bearing Bracket Part# 5480661 and Main Bearing Part #5134357 or 5112551-2 as included in the test specimens.</div> <div>3. 1" OD x 11/16 ID x 2.5" cylindrical spacers present in the test specimen leveling feet as part of the anchorage assembly shall be installed.</div> <div>4. Patient Table (GT1700V) weight does not include 350 lb. patient load present during testing.</div> <div>5. Patient Table (GT2000) weight does not include 550 lb. patient load present during testing.</div> <div>6. Patient Table (High Capacity Table) weight does not include 650 lb. patient load present during testing.</div> <div>7. FWS weight includes 2 LCD monitors.</div> <div>8. GE Healthcare seismic bracket model "5394347" used in this testing program shall be installed.</div> <div>9. <i>Gray italic formatting indicates unit is not a component of system and used only as a basis for seismic qualification.</i></div>											

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 3:

Manufacturer		GE HEALTHCARE							S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0			
System		OPTIMA CT580										
COMPONENT		MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀
			W	D	H							
GANTRIES ^[2]												
Optima CT580 Gantry		2374681-14	96.0	39.6	78.4	4000	Floor ^[3]	UUT-1313-3 UUT-1313-4	2.40	1	1 ½	2
Optima CT580 Gantry		2374681-15	96.0	39.6	78.4	4000	Floor ^[3]	SAME	2.40	1	1 ½	2
PATIENT TABLES												
GT1700V		5122080-11	25.6	93.3	19.2 / 41.2	1059 ^[4]	Floor	UUT-1126-2	2.40	1	1 ½	2
GT1700 N9		5122080-3	25.6	93.3	19.2 / 41.2	1047	Floor	INT	2.40	1	1 ½	2
GT1700 N9 ED3		5122080-4	25.6	93.3	19.2 / 41.2	1047	Floor	INT	2.40	1	1 ½	2
GT2000 N9		5121647-3	25.6	114.5	19.2 / 41.3	1146 ^[5]	Floor	UUT-1408-4	2.40	1	1 ½	2
High Capacity Patient Table		5272966-3	26	115.6 / 210.9	20.6 / 41.7	1136.5 ^[6]	Floor	UUT-1313-1	2.40	1	1 ½	2
High Capacity Patient Table		5272966-2	26	115.6 / 210.9	20.6 / 41.7	1136.5	Floor	SAME	2.40	1	1 ½	2
CONSOLES												
NIO Console		5411378-23	18.5	29.1	25.8	161	Floor	UUT-1308-3	1.50	2 ½	6	2
NIO Console		5411378-25	18.5	29.1	25.8	161	Floor	SAME	1.50	2 ½	6	2
NIO Console		5411378-11	18.5	29.1	25.8	159	Floor	SAME	1.50	2 ½	6	2
NIO Console		5411378-22	18.5	29.1	25.8	159	Floor	SAME	1.50	2 ½	6	2
NIO Console		5411378-24	18.5	29.1	25.8	159	Floor	SAME	1.50	2 ½	6	2
Open Console 16 (TangE)		5941604-10	15.7	26.4	22.7	133	Floor	UUT-1806-5	1.44	1	2 ½	2
RT Open Console with Z840		5941604-11	15.7	26.4	22.7	133	Floor	SAME	1.44	1	2 ½	2
RT Open Console with Z840		5941604-20	15.7	26.4	22.7	133	Floor	SAME	1.44	1	2 ½	2
Open Console w/ Z8G4		5946404-15	15.8	26.4	22.7	142	Floor	UUT-1914-2	1.50	2 ½	6	2
Open Console w/ Z8G4		5941604-17	15.8	26.4	22.7	142	Floor	SAME	1.50	2 ½	6	2
Open Console w/ Z8G4		5941604-27	15.8	26.4	22.7	142	Floor	SAME	1.50	2 ½	6	2

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 3:

Manufacturer	GE HEALTHCARE										S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0	
System	OPTIMA CT580											
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀	
		W	D	H								
POWER DISTRIBUTION (PDU)												
NGPDU-61	2326492-61	27.6	21.7	41.8	818	Floor	UUT-1313-2	1.44	1	2 ½	2	
NGPDU-60	2326492-60	27.6	21.7	41.8	818	Floor	SAME	1.44	1	2 ½	2	
OTHER EQUIPMENT												
Freedom Workspace (FWS) Large tabletop w/ (2) Eizo LCD Monitors on table-mounted articulated arms	5168666-2	53.1	29.2	26.9 / 35.9	167 ^[7]	Floor ^[8]	UUT-1216-2	1.44	1	2 ½	2	
Mount	FLOOR (RIGID BASE) MOUNT: free-standing, base-mounted configuration with the component rigidly attached to a supporting structure and no lateral support above the base.											
Notes	<div>1. BASIS:<ul style="list-style-type: none">• UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program.• INT (Interpolate or extrapolate): indicates a model that was not specifically tested, and by which seismic qualification was established through evaluation of testing of other, similar models in the product line.• SAME: Model is physically, mechanically & electrically the same as test specimen. Differences are limited to color, software, GE manufacturing location and/or labeling.</div> <div>2. Seismic qualification limited to gantries manufactured after July 15, 2013 which include RT Integrated Bearing Bracket Part# 5480661 and Main Bearing Part #5134357 or 5112551-2 as included in the test specimens.</div> <div>3. 1" OD x 11/16 ID x 2.5" cylindrical spacers present in the test specimen leveling feet as part of the anchorage assembly shall be installed.</div> <div>4. Patient Table (GT1700V) weight does not include 350 lb. patient load present during testing.</div> <div>5. Patient Table (GT2000) weight does not include 550 lb. patient load present during testing.</div> <div>6. Patient Table (High Capacity Table) weight does not include 650 lb. patient load present during testing.</div> <div>7. FWS weight includes 2 LCD monitors.</div> <div>8. GE Healthcare seismic bracket model "5394347" used in this testing program shall be installed.</div> <div>9. <i>Gray italic formatting indicates unit is not a component of system and used only as basis for seismic qualification.</i></div>											

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-1126-2 GT1700V Table																				
MANUFACTURER:				GE Hangwei Medical Systems Co., LTD																
IDENTIFICATION:				Model No.: 5122080-11																
DESCRIPTION:				System component of the Optima CT660 System and other GE CT Systems 350 lb. simulated patient load. UUT tested at a height of 34.9".																
MOUNTING:				Rigid Base (Floor) mounted using (4) – 5/8" dia. hex head bolts to interface plate.																
<div>DIMENSIONS (in.)</div> <table><tr><td>Width</td><td>Depth</td><td>Height</td><td>Weight (lb.)</td></tr><tr><td>25.6</td><td>93.3</td><td>19.2 / 41.2</td><td>1059 + Patient</td></tr></table>				Width	Depth	Height	Weight (lb.)	25.6	93.3	19.2 / 41.2	1059 + Patient	<div>LOWEST RESONANT FREQUENCY (Hz.)</div> <table><tr><td>Transverse-Axis</td><td>Longitudinal-Axis</td><td>Vertical-Axis</td></tr><tr><td>3.9</td><td>15.2</td><td>14.2</td></tr></table>			Transverse-Axis	Longitudinal-Axis	Vertical-Axis	3.9	15.2	14.2
				Width	Depth	Height	Weight (lb.)													
25.6	93.3	19.2 / 41.2	1059 + Patient																	
Transverse-Axis	Longitudinal-Axis	Vertical-Axis																		
3.9	15.2	14.2																		
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS				CODE: 2022 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	1.0	1.5	3.20	2.40	1.74	0.70														
2.6	0.0																			
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.																				

UUT-1216-2 Freedom Workspace – Large w/ 2 LCD monitors						
MANUFACTURER:						
IDENTIFICATION:						
DESCRIPTION:						
Model No. 5168666-2						
System component of the Discovery 610 PET/CT and other GE CT Systems						
Larger variant of the Freedom Workspace table w/ (2)-EIZO LCD Monitors mounted to articulated arms						
MOUNTING:						
Rigid Base (Floor) mounted using GE Healthcare seismic bracket Model No. 5394347 w/ (4) – 3/8" Dia Cap bolts to aluminum interface plate.						
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		X-Axis	Y-Axis	Z-Axis
53.1	29.2	35	167	6.1	3.9	3.9
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2022 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	1.0	1.5	3.20	2.40	1.74	0.70
2.6	0.0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-1308-3 NIO Console

MANUFACTURER:	GE Hangwei Medical Systems Co., LTD
IDENTIFICATION:	Model No.: 5411378-11 (on label) Model No.: 5411378-23 (as configured w/ GPU card)
DESCRIPTION:	System component of the Optima CT580 and other GE CT Systems Manufactured unit was Model No. 5411378-11. Prior to testing a GPU card added to the test specimen, transforming it to Model No. 5411378-23.
MOUNTING:	<u>Rigid Base (Floor) Mounted</u> using: GE mounting kit: Catalog No. B73762CA (Eng P/N 5394347) (4) - 3/8" dia. grade 8 Allen head cap screw to aluminum interface plate.



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis
18.5	29.1	25.8	161	12.2	16.8	9.9
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2022 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	1.0	1.5	3.20	2.40	1.74	0.70
2.6	0.0					

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

UUT-1313-1 High Capacity Table

MANUFACTURER:	GE Hangwei Medical Systems CO., LTD
IDENTIFICATION:	Model No.: 5272966-3 S/N: 320342HM9
DESCRIPTION:	System component of the Optima CT 580 and other GE CT Systems 650lb simulated patient load. UUT tested at a height of 37.75" & a 50" tabletop extension.
MOUNTING:	FLOOR MOUNTED (Rigid Base) w/ (4) – 5/8" dia. Bolts





DIMENSIONS [in]				LOWEST RESONANT FREQUENCY [Hz]		
Width	Depth	Height	Weight [lb]	X-Axis	Y-Axis	Z-Axis
26	115.6 - 210.9	20.6 - 41.7	1136.5 + Patient	3.4	>50	5.3
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2022 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	1.0	1.5	3.20	2.40	1.74	0.70
2.6	0.0					

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

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-1313-2 NGPDU-61						
MANUFACTURER:						
IDENTIFICATION:						
DESCRIPTION:						
MOUNTING:						
GE Hangwei Medical Systems CO., LTD						
Model No.: 2326492-61 S/N: 322132HM2						
System component of the Optima CT580 and other GE CT Systems						
Rigid Base (Floor) mounted using: (2) – 3/8" dia. ASTM A574 Socket Head Cap Screws w/ washer through GE mounting brackets to floor plate. <u>GE mounting assembly including:</u> (2) – Seismic Bracket, System Cabinet (P/N 2354563-2) Each bracket mounted to cabinet w/: (2) – M10-1.5 X25mm Class 12.9 Socket Head Cap Screw, Black Oxide (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.)	X-Axis	Y-Axis	Z-Axis
27.6	21.7	41.8	818	15.7	19.9	45
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS				CODE: 2022 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	1.0	1.5	3.20	2.40	1.74	0.70
2.6	0.0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT-1313-3 Optima CT580 Gantry						
MANUFACTURER: GE Hangwei Medical Systems CO., LTD						
IDENTIFICATION: Model No.: 2374681-14 S/N: 331950HM6						
DESCRIPTION: System component of the Optima CT580 and other GE CT Systems Features which vary from current production units: <ul style="list-style-type: none">• RT Integrated Bearing Bracket: Part No. 5480661• Main Bearing: Part No. 5134357						
MOUNTING: <u>FLOOR MOUNTED (Rigid Base)</u> w/ (4) – 5/8" dia. Bolts. NOTE: The 1" OD x 11/16: ID x 2.5" cylindrical spacers present in the test specimen leveling feet as part of the anchorage assembly shall be installed as a necessary condition of the conclusions and recommendations of this report.						
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		X-Axis	Y-Axis	Z-Axis
96	39.6	78.4		4000	5.9	34.1
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2022 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	1.0	1.5	3.20	2.40	1.74	0.70
2.6	0.0					
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-1313-4 Optima CT580 Gantry

MANUFACTURER:	GE Hangwei Medical Systems Co., LTD.
IDENTIFICATION:	Model No.: 2374681-14 S/N: 338839HM4
DESCRIPTION:	System component of the Optima CT580 and other GE CT Systems Features which vary from current production units: • RT Integrated Bearing Bracket: Part No. 5480661 • Main Bearing: Part No. 5112551-2
MOUNTING:	<u>FLOOR MOUNTED (Rigid Base)</u> w/ (4) – 5/8" dia. Bolts. NOTE: The 1" OD x 11/16: ID x 2.5" cylindrical spacers present in the test specimen leveling feet as part of the anchorage assembly shall be installed as a necessary condition of the conclusions and recommendations of this report



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	X-Axis	Y-Axis	Z-Axis
96	39.6	78.4	3993.6	5.6	35.9	14.5

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS CODE: 2022 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	1.0	1.5	3.20	2.40	1.74	0.70
2.6	0.0					

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

UUT-1408-4 GT2000 N9 Patient Table

MANUFACTURER:	GE Hangwei Medical Systems CO. LTD.
IDENTIFICATION:	Model No.: 5121647-3
DESCRIPTION:	System Component of the LightSpeed VCT and other GE CT Systems GT2000 N9 Patient Table 550 lb. simulated patient load. UUT tested at a height of 35.5" Seismic Kit
MOUNTING:	<u>Floor:</u> (4) – 5/8" dia GR 8 hex head bolts (torqued to 60 lb-ft) w/ GEHC supplied patient table foot assembly.



DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Transverse-Axis	Longitudinal-Axis	Vertical-Axis
25.6	114.5	19.2 / 41.3	1146+ Patient	2.7	7.1	5.7

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS CODE: 2022 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	1.0	1.5	3.2	2.4	1.68	0.68
2.5	0.0					

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

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-1806-5 Open Console

MANUFACTURER:	GE Healthcare
IDENTIFICATION:	Model No.: 5941604-10
DESCRIPTION:	Component of the Optima CT 540 and other GE CT Systems "Open" console style
MOUNTING:	Rigid Base (Floor) mounted using: GE console to floor mounting assembly (3 locations total): - Bracket (P/N 5357148-8) each w/ - (2) – M6 x 16 10.9 Class bolts (Torque = 7.9 N-m) (P/N 2262896-30) - (2) – Flat washers (P/N 2001-M8-02) - 3/8" dia. ASTM A574 Socket Head Cap Screw w/ washer.



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
15.7	26.4	22.7	132.5	14.4	32.2	>50

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS CODE: 2022 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 1914-2 Open Console w/ Z8G4

Manufacturer:	GE Hangwei Medical Systems Co., LTD.
Identification:	Model No.: 5946404-15 Serial No.: 000000HM1
Description:	Component of the Revolution Maxima / Revolution Ace CT and other GE CT Systems - HP Z8G4 Computer - Open style console - Configuration controlled verification unit that is equivalent to standard production.
Mounting:	Rigid Base (Floor) mounted using: GE Console Anchor Kit 5812703-2 (3) – 3/8" dia. SAE J429 Grade 8 bolts to test fixture. NOTE: Console Anchor Kit 5812703-2 is included standard w/ console.



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	X-Axis	Y-Axis	Z-Axis
15.8	26.4	22.7	141.5 w/ brackets	14.6	30.1	26.2

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS CODE: 2022 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.