



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0354

OSHPD 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 53188-1696

Telephone: On File

Email: On File

Product Information

Product Name: CT Systems

Product Type: NA

Product Model Number: Discovery RT, Discovery CT590 RT, and Optima CT580 Systems

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

Mounting Description: Rigid, Floor Mounted

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





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

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

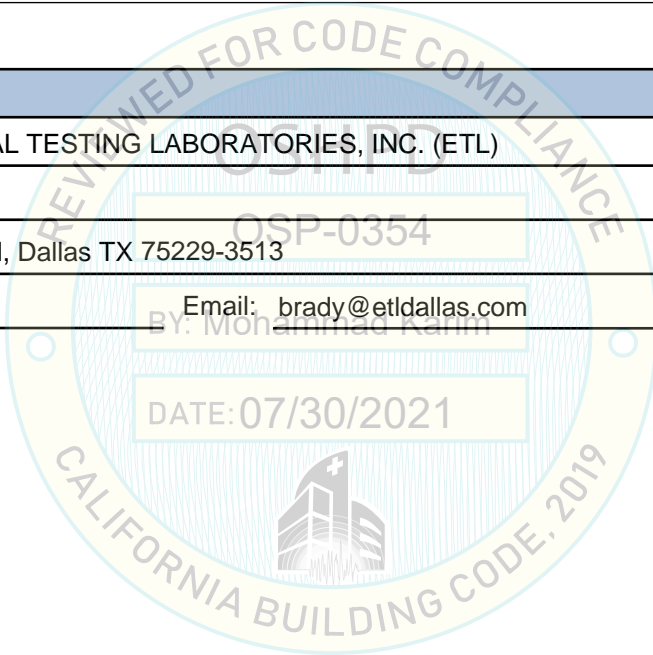
Company Name: EASE
Name: Jonathan Roberson California License Number: S4197
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills, CA 91709
Telephone: (951) 295-1892 Email: jon@EASECo.com

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: Brady Richard
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: brady@etldallas.com





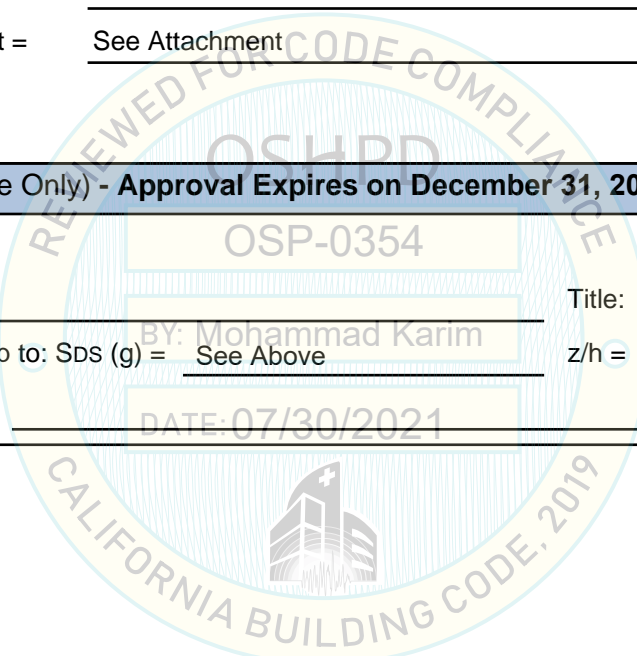
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FACILITIES DEVELOPMENT DIVISION**

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
Overall dimensions and weight =	See Attachment

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

Date:	<u>7/30/2021</u>		
Name:	<u>Mohammad Karim</u>	Title:	<u>Supervisor, Health Facilities</u>
Special Seismic Certification Valid Up to: SDS (g) =	<u>See Above</u>	z/h =	<u>See Above</u>
Condition of Approval (if applicable):	<u>DATE: 07/30/2021</u>		



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1:

Manufacturer		GE HEALTHCARE									
System		DISCOVERY RT									
		S_{DS} = 2.0 at z/h = 1 S_{DS} = 2.5 at z/h = 0									
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

TABLE 1:

<i>Manufacturer</i>		GE HEALTHCARE										S_{DS} = 2.0 at z/h = 1 S_{DS} = 2.5 at z/h = 0	
<i>System</i>		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		
<i>Mount</i>	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.												
<i>Notes</i>	<p>1. BASIS:</p> <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. <p>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.</p> <p>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.</p> <p>4. Patient Table (GT1700V) weight does not include 350 lb. patient load present during testing.</p> <p>5. Patient Table (GT2000) weight does not include 550 lb. patient load present during testing.</p> <p>6. Patient Table (High Capacity Table) weight does not include 650 lb. patient load present during testing.</p> <p>7. <i>Gray italic formatting indicates unit is not a component of system and used as basis for seismic qualification only.</i></p>												

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 2:

Manufacturer		GE HEALTHCARE									
System		DISCOVERY CT590 RT									
		S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0									
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. BY: Mohammad Karim											
Notes	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. 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. 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. 4. Patient Table (GT1700V) weight does not include 350 lb. patient load present during testing. 5. Patient Table (GT2000) weight does not include 550 lb. patient load present during testing. 6. Patient Table (High Capacity Table) weight does not include 650 lb. patient load present during testing. 7. FWS weight includes 2 LCD monitors. 8. GE Healthcare seismic bracket model "5394347" used in this testing program shall be installed. 9. <i>Gray italic formatting indicates unit is not a component of system and used as basis for seismic qualification only.</i>											

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 3:

Manufacturer		GE HEALTHCARE									
System		OPTIMA CT580									
		S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0									
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


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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 3:

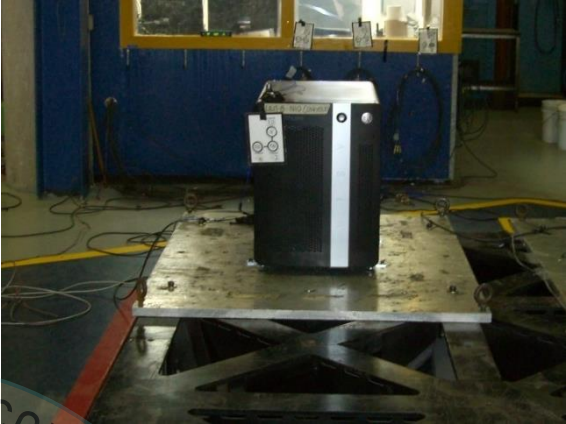
Manufacturer		GE HEALTHCARE										S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0
System		OPTIMA CT580										
COMPONENT	MODEL NUMBER	APPROX. DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω ₀	
		W	D	H								
POWER DISTRIBUTION (PDU)												
NGPDU-61	2326492-61	27.6	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	<p>1. BASIS:</p> <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. <p>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.</p> <p>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.</p> <p>4. Patient Table (GT1700V) weight does not include 350 lb. patient load present during testing.</p> <p>5. Patient Table (GT2000) weight does not include 550 lb. patient load present during testing.</p> <p>6. Patient Table (High Capacity Table) weight does not include 650 lb. patient load present during testing.</p> <p>7. FWS weight includes 2 LCD monitors.</p> <p>8. GE Healthcare seismic bracket model "5394347" used in this testing program shall be installed.</p> <p>9. <i>Gray italic formatting indicates unit is not a component of system and used as basis for seismic qualification only.</i></p>											


ATTACHMENT 2: TEST SPECIMEN SUMMARY

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.						
MOUNTING: Rigid Base (Floor) mounted using (4) – 5/8" dia. hex head bolts to interface plate.						
DIMENSIONS (in.)			Weight (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height		Transverse-Axis	Longitudinal-Axis	Vertical-Axis
25.6	93.3	19.2 / 41.2	1059	3.9	15.2	14.2
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2019 CBC
S_{Ds} (G)	z/h	I_p	A_{FLX-H} (G)	A_{RIG-H} (G)	A_{FLX-V} (G)	A_{RIG-V} (G)
2.0 2.6	1.0 0.0	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-1216-2 Freedom Workspace – Large w/ 2 LCD monitors						
MANUFACTURER: GE Healthcare						
IDENTIFICATION: Model No. 5168666-2						
DESCRIPTION: 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: 2019 CBC
S_{Ds} (G)	z/h	I_p	A_{FLX-H} (G)	A_{RIG-H} (G)	A_{FLX-V} (G)	A_{RIG-V} (G)
2.0 2.6	1.0 0.0	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 2: TEST SPECIMEN SUMMARY

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: Rigid Base (Floor) Mounted 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: 2019 CBC
S _{Ds} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.6	1.0 0.0	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-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.						
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	3.4	>50	5.3
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2019 CBC
S _{Ds} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.6	1.0 0.0	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 2: TEST SPECIMEN SUMMARY

UUT-1313-2 NGPDU-61						
MANUFACTURER: GE Hangwei Medical Systems CO., LTD						
IDENTIFICATION: Model No.: 2326492-61 S/N: 322132HM2						
DESCRIPTION: System component of the Optima CT580 and other GE CT Systems						
MOUNTING: 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: 2019 CBC
S _{Ds} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.6	1.0 0.0	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-1313-3 Optima CT580 Gantry DATE: 07/30/2021						
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: • RT Integrated Bearing Bracket: Part No. 5480661 • Main Bearing: Part No. 5134357						
MOUNTING: FLOOR MOUNTED (Rigid Base) 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	4000	5.9	34.1	8.1
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2019 CBC
S _{Ds} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.6	1.0 0.0	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 2: TEST SPECIMEN SUMMARY

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: 2019 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. 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.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Transverse-Axis	Longitudinal-Axis	Vertical-Axis
25.6	114.5	19.2 / 41.3	1146	2.7	7.1	5.7
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2019 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

UUT-1806-5 Open Console						
<i>MANUFACTURER:</i> GE Healthcare						
<i>IDENTIFICATION:</i> Model No.: 5941604-10						
<i>DESCRIPTION:</i> Component of the Optima CT 540 and other GE CT Systems "Open" console style						
<i>MOUNTING:</i> 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 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: 2019 CBC
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						

UUT 1914-2 Open Console w/ Z8G4						
<i>Manufacturer:</i> GE Hangwei Medical Systems Co., LTD.						
<i>Identification:</i> Model No.: 5946404-15 Serial No.: 000000HM1						
<i>Description:</i> 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.						
<i>Mounting:</i> 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: 2019 CBC
S _{DS} (G)	z/h	I _p	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68
Unit satisfied AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.						