

Telephone: (909) 606-7622

Title: Principal Engineer

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

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP)** APPLICATION #: OSP-0616 **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 531881696 Telephone: (888) 406-1101 Email: Tom.Farnow@gehcseismic.com **Product Information** Product Name: Discovery MI PET-CT System Product Model Number(s): See Attachment 1 **Product Category:** CT Systems Product Sub-Category: NA General Description: System components of multiple-component medical imaging systems. Special Seismic Certification is limited to functions related to Computed Tomography (CT) medical imaging services. Several - See Certified Product Tables -3/2025 Mounting Description: Seismic enhancements made to the test units and/or modifications required to address Tested Seismic Enhancements: 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

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Email: j.roberson@easeco.com



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 9	11709
Telephone: (951) 295-1892 Email: jor	@EASECo.com
Certification Method	
GR-63-Core X ICC-ES AC156	IEEE 344
Other (Please Specify):	
EOR CO	ODE CO.
Testing Laboratory	
Company Name: ENVIRONMENTAL TESTING LABORATOR	RIES, INC. (ETL)
Contact Person: Jeremy Lange	2
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513	-0616
Telephone: (972) 247-9657 By Email: jer	emy@etldallas.com
DATE: 04	/23/2025





STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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

Seismic Parameters	
Design Basis of Equipment or Components	(F _p /W _p) = See Attachment 1; Table 2
SDS (Design spectral response accele	eration at short period, g) = 1.52
a _P (Amplification factor) =	See Attachment 1; Table 2
Rp (Response modification factor) =	See Attachment 1; Table 2
Ω0 (System overstrength factor) =	2.0
I _P (Importance factor) =	1.5
z/h (Height ratio factor) =	1
Natural frequencies (Hz) =	See Attachment
Overall dimensions and weight =	See Attachment 1

HCAI A	HCAI Approval (For Office Use Only) - Approval Expires on 04/23/2031								
Date:	4/23/2025	OSP-0616	12						
Name:	Timothy Piland	D) (Title:	Senior Structural Engineer					
Special :	Seismic Certification	Valid Up to: Sps (g) = See Above	z/h =	See Above					
Conditio	n of Approval (if appli	cable): DATF · 04/23/2025							





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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 1: SEISMIC CERTIFIED SYSTEMS & COMPONENTS [6]

System	Discovery MI PET/CT S	ystem ^[2]						
		MODEL	ADDD	OX. DIMENS	IONS (IN)	MAX. WT.		
COMPONENT		NUMBER	W	D D	H	(LB.)	MOUNT	BASIS [1]
PET-CT GANT	RIFS [7]	_				, ,		
	VO CT Gantry, PET Specific	5454001-170				3940		
	bia PET Gantry, Weldment	5990025-22	77.4	93.59	76	2443	Floor	UUT-1901-1
	VO CT Gantry, PET Specific	5454001-170				3940		
	bia PET Gantry, Weldment	5990025-20	77.4	93.59	76	2443	Floor	SAME
	VO CT Gantry, PET Specific	5454001-170				3940		
	bia PET Gantry, Weldment	5990020-20	77.4	93.59	76	2402	Floor	INT
	VO CT Gantry, PET Specific	5454001-170	CODE			3940		
	bia PET Gantry, Weldment	5990015-20	77.4	93.59	76	2380	Floor	INT
	VO CT Gantry, PET Specific	5454001-170	TYXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	W		3940		
	bia PET Gantry, Weldment	5990030-30	77.4	93.59	76	2553	Floor	INT
	VO CT Gantry, PET Specific	5454001-170			P	3940		
	bia PET Gantry, Weldment	5990025-30	77.4	93.59	76	2443	Floor	INT
	VO CT Gantry, PET Specific	5454001-170	SP-06	16		3940		
	bia PET Gantry, Weldment	5990020-30	77.4	93.59	76	2402	Floor	INT
Revolution E	VO CT Gantry, PET Specific	5454001-170	ioth y ,4J. F	Piland		3940		
15cm Columb	bia PET Gantry, Weldment	5990015-30	77.49	93.59	76	2380	Floor	INT
Revolution E	VO CT Gantry, PET Specific	5454001-170				3940		
25cm Columb	bia PET Gantry	5990025 A E	04723/2	93.59	76	3915	Floor	UUT-1601-1
PATIENT TABI	LES				W_0'/	•		
PROSCAN F	Patient Table [3]	5101900	26	136	22 / 42	1808 [4]	Floor	UUT-10390-
Mobile Read	y Global PET-CT Table Ed3	5101900-20	26	136	22 / 42	1808	Floor	SAME
POWER DISTR	RIBUTION	177		0			•	
NGPDU-61		2326492-61	/T 27.6 T	21.7	41.8	818	Floor	UUT-1313-2
Power Distrik	oution Box (PDB)	5627940	19.7	9.5	24.8	68	Wall	UUT-1901-3
CONSOLES								
Console Ass	embly (HDe6) [3]	5940904-10	15.7	26.4	22.7	138	Floor	UUT-1805-2
Revolution E	VO Open Console, WSO	5946404-21	15.7	26.4	22.7	138	Floor	SAME
Revolution F	rontier Open Console [3]	5940904-12	15.7	26.4	22.7	142.2	Floor	UUT-1818-1
Operator Cor	nsole – Z8G4	5946404-22	15.7	26.4	22.7	142.2	Floor	SAME
Revolution E	VO Open Console w/ Z8G4	5946404-21_Z8G4	15.7	26.4	22.7	142.2	Floor	SAME
OTHER EQUIP	PMENT							
Lytron Chiller	r	5582166	22	28	32	314 ^[5]	Floor	UUT-1601-3
Mount	Floor (Rigid Base): free-sta support above the base. Wall: refers to a condition w	•		·	0 ,		· ·	and no lateral

Table continues next page

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 1: SEISMIC CERTIFIED SYSTEMS & COMPONENTS [6]

Manufacturer	GE He	ealthcare										
System	Disco	Discovery MI PET/CT System [2]										
			MODEL	APPF	OX. DIMENS	IONS (IN.)	MAX. WT.					
COMPONENT			NUMBER	w	D	н	(LB.)	MOUNT	BASIS [1]			
	2. F k 3. M s 4. F 5. C	 SAME: Model is pleased or and/or software. INT (Interpolate or established throug Requires use of GE Skit (P3000LG). Model is not part of the system. Patient Table weight of Chiller operating weig Seismic certification is 	extrapolate): indicate hevaluation of testing teismic Kit (P3000BK) e listed system; it is indoes not include the 3	ly & electricall es a model tha g of other, sim) or equivalen ncluded only t 300 lb. simulat related to Con	y the same as at was not spec illar models in t when used w o provide a ba ted patient load aputed Tomog	test specimen. Di cifically tested, and the product line. ith Lytron Chiller; usis for seismic qual d present during to raphy (CT) for dia-	fference is lim d by which seis Otherwise req alification of a sesting. gnostic assess	ited to mode smic qualific uires use of similar com	el number, cation was GE Seismic ponent of the			

TABLE 2: ASCE 7-10 DESIGN BASIS FOR EQUIPMENT

COMPONENT	MODEL NO.	I FP/WP	S _{DS}	z/h	a _P	R_P	Ω_0
PET-CT GANTRIES							
Revolution EVO CT Gantry, PET Specific 25cm Columbia PET Gantry 25cm Columbia PET Gantry 25cm Columbia PET Gantry 20cm Columbia PET Gantry 15cm Columbia PET Gantry	5454001-170 5990025 5990025-22 5990025-20 5990020-20 5990015-20	1.82	1.52	1	1	1 ½	2
PATIENT TABLES	17	(0)					
PROSCAN Patient Table Mobile Ready Global PET-CT Table Ed3	5101900 5101900-20	1.82	1.52	1	1	1 ½	2
POWER DISTRIBUTION							
NGPDU-61	2326492-61	1.10	1.52	1	1	2 ½	2
Power Distribution Box (PDB)	5627940	1.10	1.52	ı	ı	Z ½	2
CONSOLES							
Console Assembly (HDe6) Revolution EVO Open Console, WSO Revolution Frontier Open Console Operator Console – Z8G4 EVO Open Console with Z8G4	5940904-10 5946404-21 5940904-12 5946404-22 5946404-21_Z8G4	1.10	1.52	1	1	2 ½	2
OTHER EQUIPMENT							
Lytron Chiller	5582166	1.10	1.52	1	1	2 ½	2

ATTACHMENT 2: TEST UNIT SUMMARY

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UUT-1901-1	Discovery	MI PET-CT Gan	try			
Manufacturer:	GE Healthcare	/				
Identification:		CT Gantry	PET Gantry		1.	
	Model No.	5454001-170	5990025-22	(.		
	Serial No.	CJRPX16000014CN	CL251900001PT			
Description: Mounting:	 Revolution 25cm Colu The tested conf gantry in a com Seismic Kit (P3 Unit included er standard producinclude in revisi Rigid Base (Flo 	nent of the Discovery MI P EVO CT Gantry, PET Spembia PET Gantry (Weldmandiguration included both a liplete PET-CT assembly. 0000BK) installed. honancements to construction units. These enhance on of Seismic Kit (P3000E or) mounted using: AE J429 Grade 8 bolts.	ecific ent) PET gantry and a CT on not found on then- ements subsequently			
	DIMENSION	S (in.)	R CODF C	LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
77.4	93.59	76	6383 (reported) 6206 (measured)	7,4	5.9	10.7
CC-ES AC156 SH	AKE TABLE TES	T PARAMETERS	OSP-0616			
S _{DS} (G)	z/h	I POVICE OF THE PROPERTY OF TH	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.5	1.0 0.0	O B5/: Ti	mothy ^{3,20} Pilan	2.40	1.68	0.68
Jnit maintained str	uctural integrity ar	n <mark>d satis</mark> fied manufacturer ı	equirement for CT diagr	nostic imaging.		

UUT-1601-1	Discovery N	II PET-CT Gar	ntry			
Manufacturer:	GE Healthcare					
Identification:		CT	PET 5990025			
	Model No. 5454001-170	5454001-170		6	A 2	
	Serial No.	10002	10002		1	
Description:	Revolution EV 25cm Columbi The tested configured CT gantry in a come Seismic Kit (P3000 Unit included enhat then-standard products subsequently included.)	ration included both a plete PET-CT assemble BK) installed. Incements to construct uction units. These er de in revision of Seism	ecific PET gantry and a oly. ion not found on hancements			1 × mans
Mounting:	Rigid Base (Floor) (11) – 5/8" diamet	mounted using: er SAE J429 Grade 8 l	bolts.			All Inches
	DIMENSIONS (in.)			LOWEST	RESONANT FREQUE	NCY (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
77.4	93.59	76	7855	8.6	8.1	14.7
ICC-ES AC156 SHA	KE TABLE TEST PAF	AMETERS				
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 0.0	1.5	3.20	2.40	1.68	0.68
Unit maintained struc	ctural integrity and sati	sfied manufacturer red	quirement for CT diag	nostic imaging.	•	

ATTACHMENT 2: TEST UNIT SUMMARY

Console Assembly (HDe6)

GE Healthcare

UUT-1805-2

Manufacturer:

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UUT-1901-3	Power Distr	ibution Box				
Manufacturer:	CETC ECRIEEPO	WER (ANHUI) CO., I	LTD	61 6 18		
Identification:	Model No. 5627940			II.		
	Serial No.: 562000	00003		-	85	0
Description:	CT/PET Panel	t of the Discovery MI ed with M8-8.8 SHCS	-			×I
Mounting:	sheet metal (TEK) - (2) - 1.25" O.D. x	/asher Head, self-tap	shers at top and			
	DIMENSIONS (in.)	IN PO		LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
19.7	9.5	24.8	66			
ICC-ES AC156 SHA	AKE TABLE TEST PAF	RAMETERS	<u> </u>			
S _{DS} (G)	z/h	l _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

Component of the Rev	1//				
Open style console HP Z840 Computer	olution Frontier CT s	UILDING	-02		
GE console to floor mo - Bracket (P/N 535714 - (2) – M6 x 16 10.9 Cl (P/N 2262896-30) - (2) – Flat washers (P/	ounting assembly (3 l l8-3) each w/ ass bolts (Torque = 7 /N 2001-M8-02)	7.9 N-m)			
DIMENSIONS (in.)			LOWEST	RESONANT FREQUE	ENCY (Hz.)
Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
26.4	22.7	138	14.46	30.24	35.92
Œ TABLE TEST PARA	METERS				
z/h	I _P	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
1 0	1.5	3.2	2.4	1.68	0.68
	GE console to floor mo - Bracket (P/N 535714 - (2) – M6 x 16 10.9 Cl (P/N 2262896-30) - (2) – Flat washers (P, - 3/8" dia. ASTM A574 DIMENSIONS (in.) Depth 26.4 CE TABLE TEST PARA z/h 1 0	- Bracket (P/N 5357148-3) each w/ - (2) – M6 x 16 10.9 Class bolts (Torque = (P/N 2262896-30) - (2) – Flat washers (P/N 2001-M8-02) - 3/8" dia. ASTM A574 Socket Head Cap S DIMENSIONS (in.) Depth Height 26.4 22.7 XE TABLE TEST PARAMETERS z/h IP 1 0 1.5	GE console to floor mounting assembly (3 locations total): - Bracket (P/N 5357148-3) 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.) Depth Height Weight (lb.) 26.4 22.7 138 KE TABLE TEST PARAMETERS Z/h I _P A _{FLX-H} (G) 1 0 1.5 3.2	GE console to floor mounting assembly (3 locations total): - Bracket (P/N 5357148-3) 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.)	GE console to floor mounting assembly (3 locations total): - Bracket (P/N 5357148-3) 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.)

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ATTACHMENT 2: TEST UNIT SUMMARY

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UUT-10390-3	PROSCAN	Patient Table				
Manufacturer:	GE Healthcare					
Identification:	P/N: 5101900			4		
	S/N: 176453HM	19		-		1
Description:		nent of several GEHC I conent of Discovery PE				7
Mounting:		or) Mounted using ter SAE J429 Grade 8	bolts to interface			
	DIMENSIONS (ir	1.)		LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
	135.8	22/ 42	1808	-	5.3	>33
25.6	155.6					
25.6 ICC-ES AC156 SHA		RAMETERS	WXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
		ARAMETERS	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)

UUT-1313-2	NGPDU-61	DATE	04/22/2025			
Manufacturer:	GE Hangwei Medio	cal Systems CO., LTD				
Identification:	Model No.: 232649	2-61			- DE 02	- d
	Serial No.: 322132	2HM2	DAT LANDE	- 44	8 7	
Description:	System component Tested as component	t of several GEHC CT ent of Optima CT580 \$	systems. System.	M		- 3/4
Mounting:	washer through GE mounting asset (2) – Seismic Brack Each bracket mour (2) – M10-1.5 X25r Black Oxide (2) – M10 Lock Wa	M A574 Socket Head gh GE mounting brack mbly including: ket, System Cabinet (R	xets to floor plate. P/N 2354563-2) : Head Cap Screw, 07)			
	DIMENSIONS (in.)			LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
27.6	21.7	41.8	796 + 22 brackets = 818	15.7	19.9	45
CC-ES AC156 SHAI	KE TABLE TEST PAR	RAMETERS				
S _{DS} (G)	z/h	lР	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
	1.0					

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ATTACHMENT 2: TEST UNIT SUMMARY

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UUT-1601-3	Discovery	PET-CT Chiller	•				
Manufacturer:	GE Healthcare						
Identification:	Lytron P/N: RC04	45J03YY3C017 REV B					
	Lytron Serial No.	: 898088-01			Wo		
	GEHC P/N: 5582	2166			EYTROM		
Description:	System component of the Discovery PET-CT System. Unit included enhancements to construction not found on then-standard production units. These enhancements subsequently released Chiller Seismic Collector (P/N 5748212), an element of Seismic Kit (P3000BK). Unit include contents at operating level.						
Mounting:	Rigid Base (Floo (4) – ½" diametei provided mountir	r SAE J429 Grade 8 bolt	ts using GE	-		0	
	DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis	
21.375	27.75	31.875	313.5	25,9	10.6	16.7	
ICC-ES AC156 SHA	KE TABLE TEST PA	ARAMETERS					
S _{DS} (G)	z/h	I _P C	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)	
2.0 2.5	1.0 0.0	1.5 DV: Time	3.20	2.40	1.68	0.68	
Jnit maintained struc	ctural integrity an <mark>d re</mark>	emained functional per m	nanufacturer requirem	ent			

UUT-1818-1	Console Assembly ATE: 04/23/2025									
MANUFACTURER:	GE Healthcare			-	6-6-6-					
IDENTIFICATION:	Model No.: 5940904- Serial No.: 460049CN									
DESCRIPTION:	Component of the Re HP Z8 Computer mou				6					
MOUNTING:	Rigid Base (Floor) mode GE console to floor mode Console Anti Seismic - (2) – M6 x 16 flange RoHS fastener (Tord - (2) – Flat washers (I - (1) – 3/8" dia. ASTW washer.	ounting assembly (3 l Bracket (P/N 535714 screw, hexagon sock que=7.9 N-m) (P/N 22 P/N 2001-M8-02)	8-3) each w/ set, black oxide 62896-30)							
DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)						
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis				
15.7	26.4	22.7	142.2	15.12	34.41	48.65				
ICC-ES AC156 SH	AKE TABLE TEST PAR	AMETERS								
S _{DS} (G)	z/h	l _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 AC15	6 requirements for struc	tural integrity and mar	nufacturer requireme	nts for functionality afte	er AC156 test.					

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