

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

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0753
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X 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@g	gehcseismic.com
Product Information	
Product Name: Omni Legend PET-CT System	
Product Model Number(s): See Attachment 1	E.
Product Category: CT Systems OSP-0753	in the second se
Product Sub-Category: NA	
General Description: System components of a multiple-component mec limited to components listed in Attachment 1 for fu medical imaging services.	dical imaging system. Special Seismic Certification is inctions related to Computed Tomography (CT)
Mounting Description: Several - See Certified Product Tables -	22
Tested Seismic Enhancements: Seismic enhancements made to the test anomalies during the tests shall be income	st units and/or modifications required to address or porated 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.co	m
Title: Principal Structural Engineer	



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OSP-0753



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

California Licensed Structural Engineer	r 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, C	Chino Hills, CA 91709
Telephone: (951) 295-1892	Email: jon@EASECo.com
Certification Method	
GR-63-Core X ICC-ES AC1	56 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):	
	FOR CODE CO.
Testing Laboratory	
Company Name: ENVIRONMENTAL TESTIN	G LABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange	2
Mailing Address: 11034 Indian Trail, Dallas T	x 75229-3513
Telephone: (972) 247-9657	Email: Jeremy@etIdallas.com
	DATE: 08/22/2024
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CALIFOR	BUILDING



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Seismic Parameters

Design	Basis of Equipment or Components	(Fp/Wp) =	See Attachment							
S	DS (Design spectral response accele	ration at sho	rt period, g) = 1.52							
a	ap (Amplification factor) = See Attachment									
R	p (Response modification factor) =	= See Attachment								
Ω	0 (System overstrength factor) =	2.0								
lp	(Importance factor) =	1.5								
z/	/h (Height ratio factor) =	1								
Ν	latural frequencies (Hz) =	See Attachr	nent							
0	overall dimensions and weight =	See Attachr	nent ODE CON	1012						
HCAI A	Approval (For Office Use Only) -	Approval E	Expires on 08/22/2	030						
Date:	8/22/2024)SP-0753	G						
Name:	Mohammad Karim			Title:	Supervisor, Health Facilities					
Special	Seismic Certification Valid Up to: SD	s (g) = <u>1.5</u> 2	nammad Karim	z/h =	1					
Conditio	on of Approval (if applicable):									

NG CODE:



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OSP-0753



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

GE HEALTHCARE

ATTACHMENT PAGE | 1 OF 3

TABLE 1:

Manufacturer GE HEALTHCARE								SDS	= 1.52	at z/h =	= 1	
System OMNI LEGEND PET-CT System [2]												
COMPONENT	MODEL NUMBER	APPRO W	X. DIMENSI	ONS [IN] H	MAX. WT. [LB]	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω₀	
GANTRIES ^[2]	1		-D (ODE								
Omni Legend PET-CT Gantry			FORC		.01							
32 cm Omni PET Gantry	6890030-2	00	67	77	3638	Rigid Base	UUT-2212-1	1.82	1	1 1⁄2	2	
CT Gantry (TaiX), PET Specific	6670000-21	92	67	77	3434							
Omni Legend PET-CT Gantry		Σ				-						
32 cm Omni PET Gantry	6890030	92	0SI	P-0 <u>7</u> 53	3638	Rigid Base	SAME	1.82	1	1 ½	2	
CT Gantry (TaiX), PET Specific	6670000-21	92 07 17		3434								
Omni Legend PET-CT Gantry		B	Y: Mohar	nmad Ka	arim	0						
32 cm Omni PET Gantry	6890030- <mark>31</mark>	92	67	77	3638	Ri <mark>g</mark> id Base	SAME	1.82	1	1 1⁄2	2	
CT Gantry (TaiX), PET Specific	6670000-21			0/22/20	3434							
Omni Legend PET-CT Gantry			AIL. V	0/22/20								
32 cm Omni PET Gantry	6890030-51	92	67	77	3638	Rigid Base	SAME	1.82	1	1 ½	2	
CT Gantry (TaiX), PET Specific	6670000-41	92	07		3434							
Omni Legend PET-CT Gantry		PA.			P OY							
21 cm Omni PET Gantry	6890021	92	A 67 II	DTT	3617	Rigid Base	INT	1.82	1	1 ½	2	
CT Gantry (TaiX), PET Specific	6670000-21	52	10,01	LDING	3434							
Omni Legend PET-CT Gantry												
21 cm Omni PET Gantry	6890021-2	92	67	77	3617	Rigid Base	INT	1.82	1	1 1⁄2	2	
CT Gantry (TaiX), PET Specific	6670000-21	52	07		3434							
Omni Legend PET-CT Gantry												
21 cm Omni PET Gantry	6890021-4	92	67	77	3617	Rigid Base	INT	1.82	1	1 ½	2	
CT Gantry (TaiX), PET Specific	6670000-21	02	01	11	3434							
Omni Legend PET-CT Gantry			1	T	1							
21 cm Omni PET Gantry	6890021-51	92	67	77	3617	Rigid Base	INT	1.82	1	1 1⁄2	2	
CT Gantry (TaiX), PET Specific	6670000-41	52	57		3434							



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

GE HEALTHCARE

ATTACHMENT PAGE | 2 OF 3

TABLE 1:

Manufacturer GE HEALTHCARE System OMNI LEGEND PET-CT System ^[2]								- S _{DS} = 1.52 at z/h = 1			
	MODEL	APPROX	. DIMENSI	ONS [IN]	MAX. WT.				<u> </u>		<u> </u>
COMPONENT	NUMBER	W	D	H	[LB]	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω₀
Omni Legend PET-CT Gantry			an C	ODE							
16 cm Omni PET Gantry	6890015	00	FORC		3606	Rigid Base	INT	1.82	1	1 1⁄2	2
CT Gantry (TaiX), PET Specific	6670000-21	92	67	77	3434						ĺ
Omni Legend PET-CT Gantry											
16 cm Omni PET Gantry	6890015-2	92			3606	Rigid Base	INT	1.82	1	1 1⁄2	2
CT Gantry (TaiX), PET Specific	6670000-21	92 67 77 0SP-0753 34		3434							
Omni Legend PET-CT Gantry											
16 cm Omni PET Gantry	6890015- <mark>41</mark>	92 B	(: M ₆₇ har	nm ąg i Ka	3606	Rigid Base	INT	1.82	1	1 1⁄2	2
CT Gantry (TaiX), PET Specific	6670000- <mark>21</mark>	92	• 107	THE PROPERTY OF THE PROPERTY O	3434						
Omni Legend PET-CT Gantry				0/00/00	24						
16 cm Omni PET Gantry	6890015-51	92	67	0/22/20	3606	Rigid Base	INT	1.82	1	1 1⁄2	2
CT Gantry (TaiX), PET Specific	6670000-41	92	07	77	3434						1
Omni Legend PET-CT Gantry	`	No.									
16 cm Omni PET Gantry	6890015-53	92	67	77	3606	Rigid Base	INT	1.82	1	1 1⁄2	2
CT Gantry (TaiX), PET Specific	6670000-41	92	ADU		3434						
Omni Legend PET-CT Gantry			DOI	LDING							
16 cm Omni PET Gantry	6890015-55	00	67	77	3606	Rigid Base	INT	1.82	1	1 1⁄2	2
CT Gantry (TaiX), PET Specific	6670000-41	92	67	77	3434						1
Discovery MI PET-CT Gantry											
25cm Columbia PET Gantry, Weldment	5990025-22	77 4	02.6	76	2443	Rigid Base	UUT-1901-1	1.82	1	1 ½	2
Revolution EVO CT Gantry, PET Specific	5454001-170	77.4	93.6	76	3940						

Table continues next page



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

GE HEALTHCARE

ATTACHMENT PAGE | 3 OF 3

TABLE 1:

Manufacturer System									S _{DS} = 1.52 at z/h = 1			
-		MODEL	APPROX	. DIMENSI	ONS [IN]	MAX. WT.						
COMPONENT		NUMBER	W	D	H	[LB]	MOUNT	BASIS ^[1]	F _P /W _P	a _P	R _P	Ω₀
PATIENT TAB	LES			2D (ODE				· · · · · · · · · · · · · · · · · · ·			
PROSCAN Pa	tient Table	5101900	26	136	22 / 42	1808 ^[3]	Rigid Base	UUT-10390-3	1.82	1	1 ½	2
Mobile Ready Ed3	Global PET-CT Table	5101900-20	26	136	22 / 42	1808	Rigid Base	SAME	1.82	1	1 ½	2
CONSOLES				MWCMX.								
Open Console	(HP Z8G4)	5946404-15	15.8	26.4	22.753	142 [4]	Rigid Base	UUT-1914-2	1.10	1	2 1⁄2	2
Open Console (HP Z8G4) 594640		5946404-25	15.8	26.4	22.7	142 [4]	Rigid Base	SAME	1.10	1	2 1⁄2	2
POWER DIST	RIBUTION		R/	/• Mohar	mmad K	arim						
NGPDU-61 2326492-6		2326492- <mark>61</mark>	27.6	21.7	41.8	818	Rigid Base	UUT-1313-2	1.10	1	2 1⁄2	2
Power Distribution Box (PDB) 5627940		5627940	19.7	9.5	24.8	68	Wall	UUT-1901-3	1.10	1	2 1/2	2
Mount	RIGID BASE: free-sta above the base. WALL: refers to condit	-				ABBBB C	S */			o latera	al suppo	rt.
Notes	 BASIS: UUT-#####-#: Inc. INT (Interpolate through evaluation SAME: Indicates and/or identificate System (including Patient Table weig Weight includes m Seismic certification Gray italic formatti 	or extrapolate): In on of testing of si model is physic ion number. Gantries) require tht does not inclu ounting bracket h n is limited to fur	ndicates m milar mode ally, mecha es the use o de the 300 nardware. nctions rela	odel that we les in the pr anically & e of Omni Se <i>Ib. simulat</i> ted to Com	as not spec oduct line. lectrically th ismic Collec ed patient l uputed Tom	ifically tested, he same as te ctor Kit 59194 <i>oad present d</i> ography (CT)	, and for which st specimen. [18. <i>Juring testing.</i> for diagnostic a	seismic qualific Differences are I assessment of t	ation was imited to rauma.			Э,



ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-1313-2	NGPDU-61					
Manufacturer:	GE Hangwei Med	lical Systems CO., L1	٢D	and the second second		
Identification:	Model No.: 23264	92-61			· DE OT	
	Serial No.: 32213	32HM2			00	
Description:		nt of several GEHC (nent of Optima CT58				
Mounting:	washer thro <u>GE mounting ass</u> (2) – Seismic Bra Each bracket mou (2) – M10-1.5 X25 Black Oxide (2) – M10 Lock W	TM A574 Socket Hea ugh GE mounting bra embly including: cket, System Cabine unted to cabinet w/:	ackets to floor plate. t (P/N 2354563-2) ket Head Cap Screw, 0-07)			
	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
		ARAMETERS	OSP-0753			
CC-ES AC156 SHAP	KE TABLE TEST P					
CC-ES AC156 SHAM S _{DS} (G)	z/h		A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
CC-ES AC156 SHAR S _{DS} (G) 2.0 2.6		l _P	A _{FLXH} (G) Ioham <u>320</u> d Kar		A _{FLX-V} (G) 1.74	A _{RIG-V} (G) 0.70

DATE. 08/22/2024

UUT-1901-3	Power Distrik	ution Box		111 - Q.				
Manufacturer:	CETC ECRIEEPOV	VER (ANHUI) CO., LT	D	6 6 10		A Laty		
Identification:	Model No. 5627940	P/i			beil .			
	Serial No.: 562000	00003 B	UILDING		: 86	e L		
Description:	CT/PET Panel	of several GEHC CT d with M8-8.8 SHCS a						
Mounting:	sheet metal (TEK) s - (2) - 1.25" O.D. x	asher Head, self-tappi	ers at top and					
	DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis		
19.7	9.5	24.8	66					
ICC-ES AC156 SHA	KE TABLE TEST PAR	RAMETERS						
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 struc	tural integrity and mar	ufacturer requiremer	nts for functionality after	er AC156 test.			



EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

GE HEALTHCARE

ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 2 OF 3

UUT 1914-2	Open Conso	le w/ Z8G4				
Manufacturer:	GE Hangwei Medio	cal Systems Co., LTD.		KALAN		レディー
Identification:	Model No.: 594640 Serial No.: 000000					
Description:	System componer	t of several GEHC CT s	ystems.	7		
	- HP Z8G4 Compu - Open style conso - Configuration cor standard producti	le Itrolled verification unit th	nat is equivalent to			
Mounting:		<u>mounted using:</u> or Kit 5812703-2 J429 Grade 8 bolts to te ochor Kit 5812703-2 is in				
	DIMENSIONS (in	n.)		LOWEST	RESONANT FREQU	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis
15.8	26.4	22.7	141.5 w/ brackets	14.6	30.1	26.2
CC-ES AC156 SH	IAKE TABLE TEST P	ARAMETERS)SP-0753	I.C.		
S _{DS} (G)	z/h		A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.5	1 0	BY: Mo	hamn 32 d Kar	im 2.4 O	1.68	0.68
UUT-2212-1 Manufacturer: Identification: Description: Mounting:	GE Healthcare Model No. Serial No. Component of Or Production equiva CT Gantry Weigh PET Gantry Weig Gantry requires th Rigid Base (Floor	t: 3434 lb ht: 3638 lb ne use of Omni Seismic l	PET Gantry 6890030-2 None DINC			
					RESONANT FREQU	. ,
140 111	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
Width			7070	11 45	7 40	15 40
92	67	77	7072	11.45	7.43	15.42
92		77	7072 A _{FLX-H} (G)	11.45 А _{RIG-H} (G)	7.43 A _{FLX-V} (G)	15.42 A _{RIG-V} (G)

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

EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING

GE HEALTHCARE

ATTACHMENT 2: TEST SPECIMEN SUMMARY

EASE

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UUT-10390-3	PROSCAN	Patient Table				
Manufacturer:	GE Healthcare					
Identification:	P/N: 5101900			AT		
	S/N: 176453HM	9				1
Description:	System compon	ent of several GEHC PE	ET/CT systems.			a
	Tested as comp	onent of Discovery PET	/CT 690 System		+	To
Mounting:	Rigid Base (Floo (4) - 5/8" diamet plate.	or) Mounted using er SAE J429 Grade 8 be	olts to interface			
	DIMENSIONS (ir		CODEC	LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
25.6	135.8	22/ 42	1808	*	5.3	>33
ICC-ES AC156 SHAK	E TABLE TEST P			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		
S _{DS} (G)	z/h		A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
1.52	1	1.5	2.43	1.82	1.02	0.41
Unit satisfied AC156 re	equirements for stru	uctural integrity and mar	ufacturer requirement	ts for functionality afte	r AC156 test.	

DY: Mohammad Karim

UUT-1901-1	Discovery	y MI PET-CT Gantr	У				
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 produ include in revisi Rigid Base (Flo	nent of the Discovery MI PE EVO CT Gantry, PET Spea nbia PET Gantry (Weldme iguration included both a P plete PET-CT assembly. 000BK) installed. nhancements to construction ction units. These enhance on of Seismic Kit (P3000B) or) mounted using: AE J429 Grade 8 bolts.	ific ILDING t) ET gantry and a CT n not found on then- ments subsequently				
	DIMENSION	S (in.)		LOWEST RESONANT FREQUENCY (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	
ICC-ES AC156 SH	AKE TABLE TES	T PARAMETERS					
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 satisfied AC15	6 requirements fo	r structural integrity and ma	nufacturer requirement	s for CT Diagnostic fu	unctionality after AC15	6 test.	