

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-0628 HCAI Special Seismic Certification Preapproval (OSP)** Type: New Renewal **Manufacturer Information** Manufacturer: **GE** Healthcare Manufacturer's Technical Representative: Tom Farrow Mailing Address: 3000 N. Grandview Blvd., Waukesha, WI 531881696 Telephone: (888) 406-1101 Email: Tom.Farnow@gehcseismic.com **Product Information** Product Name: Revolution Maxima / Revolution Ace Product Model Number(s): See Attachment 1. **Product Category:** CT Systems Product Sub-Category: NA System components of multiple-component medical diagnostic imaging systems. Special Seismic General Description: Certification is limited to components identified in Attachment 1. Base Mounted Rigid - ATF 11/01/2024 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 Contact Person: Jonathan Roberson Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA 91709

Title: SE

Telephone: (909) 606-7622

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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 Engin	eer Responsible for the Engine	eering and Test Repo	rt(s)
Company Name: EASE LLC			
Name: Jonathan Roberson	California Lice	nse Number: S4197	
Mailing Address: 5877 Pine Ave., Suite 21	0, Chino Hills, CA 91709		
Telephone: (951) 295-1892	Email: jon@EASECo.com		
Certification Method			
GR-63-Core X ICC-ES	AC156 IEEE 344	IEEE 693	NEBS 3
Other (Please Specify):			
	EOR CODE CO.		
Testing Laboratory			
Company Name: ENVIRONMENTAL TES	TING LABORATORIES, INC. (ETL)		
Contact Person: Jeremy Lange		2	
Mailing Address: 11034 Indian Trail, Dalla	s TX 75229-3513		
Telephone: (972) 247-9657	Email: info@etldallas.com		
S	DATE: 11/01/2024	2	







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Design Basis of Equipment or Components (Fp/Wp) = See Attachment 1

SDS (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1); 2.50 (z/h = 0)

ap (Amplification factor) = See Attachment 1

Rp (Response modification factor) = See Attachment 1

 Ω_0 (System overstrength factor) = See Attachment

 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 11/01/2030

Date: 11/1/2024 OSP-0628

Name: Mohammad Karim Title: Supervisor, Health Facilities

z/h =

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

Condition of Approval (if applicable):





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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 1:

Manufacturer GE HealthCare System Revolution Maxima / Revolution Ace								S _{DS} = 2.0 at z/h = 1 S _{DS} = 2.5 at z/h = 0				
COMPONENT		MODEL NUMBER	APPRO	X. DIMENSIC	NS (IN.)	MAX. WT.	MOUNT [6]	BASIS [1]	F _P /W _P	a _P	R_P	Ω_0
GANTRIES	[5]	HOMBER	•		••	(23.)	moonn	BAGIO	1 17001	шг	IXP	220
Revolution Maxis	ma Gantry	6670000-2	80.4	40.2	76.3	3434	Floor	UUT1914-1				
Revolution Maxi		6670000-4	80.4	40.2	R 76.3	3434	Floor	SAME				
Revolution Maxi	- ,	6670000-200	80.4	40.2	76.3	3434	Floor	SAME	2.40			
Revolution Maxis		6670000-400	80.4	40.2	76.3	3434	Floor	SAME	1.13		1 ½	1 ½
Revolution Ace (6670000-3	80.4	40.2	76.3	3434	Floor	SAME				
Revolution Ace (6670000-5	80.4	40.2	76.3	3434	Floor	SAME				
PATIENT TABL		33. 3333 3	4	/	OSP-06	328		5,				
GT1700V Table		5122080-11 [4]	25.6	93.3	19.2 / 41.2	1059 [2]	Floor	UUT1126-2	2.40			
GT1700V Table		5122080-12	25.6	93.3	19.2 / 41.2	1059	Floor	SAME	1.13	1	1 ½	1 ½
GT2000 Table		5121647-3 ^[4]	25.6	114.5	18.3 / 41.3	1146 [7]	DXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	UUT1408-4	2.40			
GT2000 Table		5121647-4	25.6	114.5	18.3 / 41.3	1146	Floor	SAME	1.13	1	1 ½	1 ½
CONSOLES		0121017	20.0	DAT	E · 11/01	/202/	11001	G/ WIL				
Open Console w	ı/ 78G4	5946404-15	15.8	26.4	22.7	142 [3]	Floor	UUT1914-2	1.44		2 ½	2
Open Console w		5946404-25	15.8	26.4	22.7	142 [3]		SAME	1.13	1		
Open Console w		5946404-18	17.6	26.4	22.7	136	Floor	UUT2415-1			+ +	
Open Console w		5946404-28	17.6	26.4	22.7	136	Floor	SAME	1.44			
Open Console w		5946404-118	17.6	26.4	22.7	136	Floor	SAME	1.13	1	2 ½	2
Open Console w		5946404-218	17.6	26.4	3 /22.7	136	Floor	SAME				
POWER DISTRI		00 10 10 1 2 10	11.0	20.1	A O TINDI	100	1 1001	37 WL				
Power Distribution		2326492-80 [4]	27.6	21.7	41.8	841 ^[3]	Floor	UUT1126-3	1.44			
Power Distribution		2326492-81	27.6	21.7	41.8	841 [3]		SAME	1.13	1	2 ½	2
		L L										
MOUNT NOTES	1. BASIS • UUT#: I • SAME: 2. Patient Ta 3. Weight ind 4. Gray italic 5. Requires 0 6. See Attack	Indicates that a test speci Model is physically, mechable (GT1700V) weight do Cludes mounting bracket to be formatting indicates unit use of additional GE bush hment 2 for additional models (GT2000) weight doe	men matching nanically & electors not include nardware. is not a composing kit B76632 unting informa	these characte ctrically identica 350 lb. patient conent of system 2DA (P/N 5841 tion.	eristics was teste al to a tested uni load present du a and used as ba 169).	ed as part of th t, except for pouring testing. asis for seismic	nis testing progra	ım. s in model number		•	ине раѕе.	

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ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT 1914-1	Revolution I	Иахі <mark>та СТ G</mark> а	antry			
Manufacturer:	GE Hangwei Med	lical Systems Co., I	_TD.	7	- Install	
Identification:	Model No.: 6670000 Serial No.: 000000H			Revolution	uura	0
Description:	Component of Revo - Non-tilt Gantry - Touchscreen displ - Configuration cont standard production	ay on front (x2) rolled verification unit	that is equivalent to			
Mounting:	Rigid Base (Floor) r (4) – 5/8" dia. SAE d GE Bushing Kit P/N	J429 Grade 8 bolts to	test fixture.			And the second
	Dimensions (in.	1 10 40		Lowes	t Resonant Frequer	ncy (Hz.)
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vertical-Axis
80.4	40.2	76.3	3434	9.9	11.6	14.0
ICC-ES AC156 Sha	ake Table Test Paran	neters	WYXXXXVVYXXXXXVVYXXX			Code: 2022 CBC
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 stru	uctural integrity and m	anufacturer requiremen	ts for functionality afte	r AC156 test.	

UUT 1914-2	Open Consol	e w/ Z8G4	: 11/01/2024	4 / 2/		
Manufacturer:	GE Hangwei Medic	al Systems Co., LTD		KWIAZ		177 下面
Identification:	Model No.: 594640 Serial No.: 0000000					
Description:	Systems - HP Z8G4 Comput - Open style conso	e rolled verification unit	DILDING			
Mounting:	. ,					
	Dimensions (in.)			Lowe	st Resonant Frequer	ıcy (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
ICC-ES AC156 Sh	nake Table Test Parame	eters				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 2.5	1 0	1.5	3.2	2.4	1.68	0.68
Unit satisfied AC15	56 requirements for struc	tural integrity and ma	nufacturer requiremen	ts for functionality after	er AC156 test.	

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT 1126-2	GT1700V Tab	le				
Manufacturer:	GE Hangwei Med	dical Systems Co., LTI	D			
Identification:	Model No.: 51220	080-11				
						189
Description: Mounting:	Also used with ot Test specimen in Requires addition B7660MY (Opt B76632DA (Re	ncluded a simulated pa nal kit as follows: ima CT660 system) evolution Maxima / F	tient load of 350 lb.		Left	Front
	Dimensions (in.) 60	RCODEC	Lowe	st Resonant Frequenc	y (Hz.)
Width	Depth	Height	Weight (lb.)	Transverse-Axis	Longitudinal-Axis	Vertical-Axis
25.6	93.3	19.2 / 41.2	1059+ 350 Patient	3.9	15.2	14.2
ICC-ES AC156 Sh	ake Table Test Paran	neters				Code: 2022 CBC
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 2.6	1 0	1.5	3.2	2.4	1.74	0.70
2.0						

UUT 1126-3	Power Distribu	ıtion Unit (PD	U)			
Manufacturer:	GE Hangwei Medic	al Systems Co., LTD	D.	The second		
Identification:	Model No.: 232649; Serial No.: 2703371					
Description:	System component Also used with othe	of the Optima CT6 0 r CT systems.	60 System.			
Mounting:	washer throug anchors ea. b GE mounting asser (2) – Seismic Brack Each bracket moun (2) – M10 x 25mm ((2) – M10 Lock Was	4 A574 Socket Head th GE mounting brad racket) hbly including: et, System Cabinet	(P/N 2354563-2) que= 38.4 N-m)		Front	
	Dimensions (in.)			Lowes	t Resonant Frequen	ıcy (Hz.)
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vertical-Axis
27.6	21.7	41.8	841	20.4	20.6	13.8
CC-ES AC156 Sh	ake Table Test Parame	ters				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 2.6	1 0	1.5	3.2	2.4	1.74	0.70
Init satisfied AC15	6 requirements for struc	tural integrity and m	anufacturer requirement	ts for functionality afte	r AC156 test.	-

ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-1408-4	4 GT2000 Pa	atient Table				
MANUFACTURER	R: GE Hangwei №	Medical Systems	CO. LTD.			
IDENTIFICATION:	Model No.: 51	121647-3		7		
DESCRIPTION:	included as ba Ascend CT Sy 550 lb. simula tabulated weig Unit requires t	rted patient load (i	nts of Revolution not included in			
MOUNTING:	Rigid Base: (4	1) – 5/8" dia GR 8	hex head bolts			
MOUNTING:	w/ GEHC sup	plied patient table	hex head bolts foot assembly.		T PERONANT EPERONEN	NOV. III.
	w/ GEHC sup	plied patient table	foot assembly.		T RESONANT FREQUEN	
Width	w/ GEHC support of the control of th	plied patient table	foot assembly. Weight [lb]	Transverse-Axis	Longitudinal-Axis	Vertical-Axis
	w/ GEHC sup	plied patient table	foot assembly.			
Width 25.6	w/ GEHC support of the control of th	n] Height 35.5	foot assembly. Weight [lb]	Transverse-Axis	Longitudinal-Axis	Vertical-Axis
Width 25.6	DIMENSIONS [ii Depth 114.5	n] Height 35.5	foot assembly. Weight [lb]	Transverse-Axis	Longitudinal-Axis	Vertical-Axis 5.7
Width 25.6 ICC-ES AC156 S	DIMENSIONS [in Depth 114.5	plied patient table [n] Height 35.5 ST PARAMETERS	Weight [lb]	Transverse-Axis 2.7 ARIG-H [g]	Longitudinal-Axis 7.1	Vertical-Axis 5.7 CODE: 2022 CBC

UUT-2415-1	Open Consol	e w/ Z8G5				
Manufacturer:	GE Hangwei Med	ical Systems Co., I	_TD.			11 11 11 11 11 11 11 11 11 11 11 11 11
Identification:	Model No.: 59464 Serial No.: 7DC44					
Description:	Component of the Ace CT Systems - HP Z8G5 Comp - Open style cons		a / Revolution			
Mounting:	, ,	or Kit 5812703-2 E J429 Grade 8 bol anchor Kit 5812703				
	Dimensions (in.)			Lowes	st Resonant Frequer	ncy (Hz.)
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vertical-Axis
17.6	26.4	22.7	136	11.2	26.3	31.2
ICC-ES AC156 Sh	ake Table Test Parame	ters				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 2.5	1 0	1.5	3.2	2.4	1.68	0.68
	6 requirements for struc	tural integrity and ma	L nufacturer requireme	Ints for functionality afte	r AC156 test.	<u> </u>