

Telephone: (909) 606-7622

Title: Principal Engineer

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

A DDI IO A TION E		101110	OFFICE USE ONLY
	OR HCAI SPECIAL SEI PREAPPROVAL (OSP		APPLICATION #: OSP-0668
HCAI Special Seismi	: Certification Preapproval (OSP)	
Type: New X	Renewal		
Manufacturer Inform	ition		
Manufacturer: GE He	althcare		
Manufacturer's Technica	Representative: Tom Farnow		
Mailing Address: 3000 I	I. Grandview Blvd, Waukesha, Wl	I 531881696	
Telephone: (888) 406-1	I01 Email:	Tom.Farnow@geho	cseismic.com
Product Information			
Product Name: Discove	y RF180		10.
Product Model Number(): See Attachment 1		
Product Category:	Fluoroscopy and Radiography	/ Systems	3
Product Sub-Category:	Fluoroscopy and Radiography	Systems	
General Description:	system digital cabinet, generator extender box for keyboard and m tilting manually positioned wallsta	, and a user interface nouse input. The syst and unit, and/or optio or seismic qualification	aging system which consists of a table unit, comprised of a monitor, control console, and em may be configured to include an optional nonnal manually positioned Overhead Tube is limited to basic radiography and fluoroscopy ma.
Mounting Description:	Several - See Certified Product T	Tables -	
Tested Seismic Enhance			nits and/or modifications required to address rated into the production units.
Applicant Informatio	1		
Applicant Company Nan	e: EASE LLC		
Contact Person: Jonath	an Roberson		
Mailing Address: 5877 I	ine Ave, Suite 210, Chino Hills, C	CA 91709	





"A healthier California where all receive equitable, affordable, and quality health care"

Email: jon@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., S	uite 210, Chino Hills, CA 91709	
Telephone: (951) 295-1892	Email: jon@EASECo.com	
Certification Method		
GR-63-Core X IC	C-ES AC156	
Other (Please Specify):		
Testing Laboratory		
Company Name: ENVIRONMENTA	L TESTING LABORATORIES, INC. (ETL)	
Contact Person: Jeremy Lange		
Mailing Address: 11034 Indian Train	Dallas TX 75229-3513	
Telephone: (972) 247-9657	Email: jeremy@etldallas.com	
	O BY: Mohammad Karim	
	DATE: 07/28/2025 PLANTING CODE:	
	PNIA BUILDING COO	



STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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

Seismic Parameters

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

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

ap (Amplification factor) = See Attachment 1

Rp (Response modification factor) = See Attachment 1

2.0 Ω_0 (System overstrength factor) =

1.5 Ip (Importance factor) =

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

Natural frequencies (Hz) = See Attachment 2

Overall dimensions and weight = See Attachment 1

HCAI Approval (For Office Use Only) - Approval Expires on 07/17/2031

Date: 7/28/2025

Mohammad Karim Name:

Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: Sps (g) = 2.0 z/h =

Condition of Approval (if applicable):





STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 1:

Distributor	GE HEALTHCARE													
Manufacturer	GENERAL MEDICAL MI	ERATE SpA (GMM)												
System	Discovery RF180 (5789)	8 05) ^[2]												
		IDENTIFICATION	APPROX. DIMENSIONS [IN] MAX.		MAX. WT.									
COMPONENT		NUMBER	W	D	Н	[LB]	MOUNT	BASIS [1]	F _P /W _P	SDS	z/h	aР	R _P	Ω_0
PATIENT TAB	BLE			COL	15									
Tilting Table C	LISIS EXEL DRF	CS006/G (Model No.) ^[3]	96.85 – 163	79.13 – 87	69.69 – 116.14	3241 ^[7]	Rigid Base	UUT-2005-1	2.40 1.13	2.0 2.5	1 0	1	1 ½	2
SYSTEM CAB	SINET					10								
System Digital	Cabinet	O-D4000RF-PDT (Type No.) [4]	22.36	29.02	35.47	243	Wall/Floor	UUT-2005-2	1.50 1.13	2.0 2.5	1 0	2 ½	6	2
GENERATOR		141		SP-00	368									
	W (H.V. Indico IQ ries: Opera G800IQ	VZW2558FD <mark>822-1</mark> 0 (Part No.) ^[5]	20.08	16.14	41.73	201	Rigid Base	UUT-2005-3	1.50 1.13	2.0 2.5	1 0	2 ½	6	2
OVERHEAD T	UBE SUSPENSION		BY: Mo	hamma	ad Karın	n (()						•	•	
Manual Overho	ead Tube Suspension	5769324 (T <mark>ype N</mark> o.)	118.5	173.6	49.2 – 116.1	735	Ceiling	UUT-2005-4	3.60 1.50	2.0 2.5	1 0	2 ½	2 ½	2
WALLSTANDS	S		DAIL.	01120	0/2020		//							
Vertical non-tilt opening w/	ting wall stand, RIGHT	5805017 (Type No.)	24.41	16.75	88.58	377	Wall/Floor	LILIT 2005 F	2.40	2.0	1	4	4 1/	
Thales Wirel	ess detector Pixium 3543 EZ - Option CMEDB	63124836 (Part No.)	14.96	0.59	18.11	6.6	vvaii/Fioor	UUT-2005-5	1.13	2.5	0	1	1 ½	2
Vertical non-tilt opening w/	ting wall stand, RIGHT	5805017 (Type No.)	24.418	16.75	88.58	377	Wall/Floor	INT	2.40	2.0	1	1	1 ½	2
Thales Wirel	ess detector Pixium 2430 EZ - Option CMND	63125597 (Part No.)	10.43	0.59	12.8	4.4	vvaii/Fi00i	IINI	1.13	2.5	0	ı	I /2	
Vertical non-tilt opening w/	ting wall stand, LEFT	5805016 (Type No.)	24.41	16.75	88.58	377	Wall/Floor	INT	2.40	2.0	1	1	4 1/	
Thales Wirel	ess detector Pixium 3543 EZ – Option CMEDB	63124836 (Part No.)	14.96	0.59	18.11	6.6	vvaii/Fioor	IIN I	1.13	2.5	0	ı	1 ½	2
Vertical non-tilt opening w/	ting wall stand, LEFT	5805016 (Type No.)	24.41	16.75	88.58	377	Wall/Floor	UUT-2005-6	2.40	2.0	1	1	1 ½	2
Thales Wirel	ess detector Pixium 2430 EZ – Option CMND	63125597 (Part No.)	10.43	0.59	12.8	4.4	vvaii/FIOOf	001-2005-6	1.13	2.5	0		1 /2	

Table continues on next page



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 2 OF 2

Distributor	GE HEALTHCARE													
Manufacturer	GENERAL MEDICAL M	ERATE SpA (GMM)												
System	Discovery RF180 (5789	805) [2]												
		IDENTIFICATION	APPROX.	DIMENSI	ONS [IN]	MAX. WT.								
COMPONENT	•	NUMBER W D H [LB] MOUNT	MOUNT	BASIS [1]	F _P /W _P	S _{DS}	z/h	a _P	R _P	Ω_0				
USER INTERP	ACE													
Control Conso	le (CLISIS EXEL DRF)	5786779 (Type No.) ^[6]	17.32	10.63	7.48	18	CTA	UUT-2005-7	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
RadiForce (23.0") Multitouch Color LCD MS236WT (Mode Monitor w/			21.93	9.75	21.0	22.5	СТА	UUT-2005-8	1.44 1.13	2.0 2.5	1	1	2 ½	2
Desk mount kit (GMM) 162396 (Part No.)														
Monitor Extend	der Box	O-D4000RF-PDT (EXT Box) (Type No.)	8.25	9.75	5.5	3.5	СТА	UUT-2005-9	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
	supporting structure with CEILING: equipment is a	combined rigid base and rigid lateral support above the bunchored to, and suspended HED (CTA): equipment is bus	oase at a wall. d from, a rigid	framing s	system at o	r slightly abov	e the ceiling	line of the room	١.					
Notes	 INT (Interpolated product line. Discovery RF180 S Tilting Table require System Digital Cab Generator requires Control Console red 	that new testing was conducted: Indicates model of equiporty ystem requires the use of Ges use of GMM Seismic Kit inet requires use of GMM Seismic Kit Population of GMM Seismic Kit Population of GMM Seismic tient load applied during te	GMM system : P/N 162436. Seismic Kit P/I /N 162321. c Kit P/N 1623	seismic ki N 162393.	t P/N 1624	ch sei <mark>smic qu</mark>			· ·					



ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2005-1	CLISIS EXEL	DRF Tilting Ta	ble			
MANUFACTURER:	GENERAL MEDICA	AL MERATE SpA (GN	MM)			
IDENTIFICATION:	Model No.: CS006/ S/N: 01280	9			5-1-1-V	
DESCRIPTION:	Component of GE I	lealthcare Discovery	RF180 System			
		ent prototype unit that tive to then-current st				
	- Horizontal Config	uration (0°) w/ Patient	Load of 502.5 lb			
	testing. These mod future production un will be included in C *Tested Configurati	tions to address anomalifications will, in part, nits. The balance of the seismic on 1: (96.85" width, 7 sted Configuration 2:	be included in he modifications Kit P/N 162435. 9.13" depth, and			
MOUNTING:	Rigid Base (Floor) ı	- 1	d bolts to interface.			
	DIMENSIONS (in			LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Longit. (X)-Axis	Transv. (Y)-Axis	Vert. (Z)-Axis
96.85 – 163*	79.13 – 87*	69.69 – 116.14*	3241 + Patient	3.73	4.59	4.67
ICC-ES AC156 SH	AKE TABLE TEST P	ARAMETERS	DSP-0668	119		CODE: 2022 CBC
S _{DS} (G)	z/h	//IP	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.5	1 0	₽5Y; M	oham <u>siz</u> ad Ka	arim 2.4 O	1.68	0.68
Unit satisfied AC15	6 requirements for st	ructural integrity and r	manufacturer require	ments for functionality	after AC156 test.	
		TREDATE	: 07/28/20	25		

UUT-2005-2	System Digit	al Cabinet		ATTENTO'/		
MANUFACTURER:	GENERAL MEDICAL	MERATE SpA (GM	M)			
IDENTIFICATION:	Type No.: O-D4000F	RF-PDT S/N: 38737			,	4 11/1
DESCRIPTION:	Component of GE System	Healthcare Discov	very RF180		UUT-2	°L.
	Mounting Brackets 162393.	included in GMM	Seismic Kit P/N		001-2	
MOUNTING:	Wall/Floor mounte GMM with (2) – ½' 9/16" washers to 5 track backing plate GMM with (2) – 3/6 interface frame.	 DIA HWH TEK S0 /8" Gyp Board ove . Floor mount with	CREWS w/ 1" x or 16 GA steel on bracket by		1 2 2	
	DIMENSIONS (in.)			LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Longit. (X)-Axis	Transv. (Y)-Axis	Vert. (Z)-Axis
22.36	29.02	35.47	243	N/A	N/A	N/A
ICC-ES AC156 SHA	AKE TABLE TEST PA	RAMETERS				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	ctural integrity and m	nanufacturer requiren	nents for functionality	after AC156 test.	



ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2005-3	Generator	80kW (H.V. I	ndico IQ Ger	nerator) Series	: Opera G800I0	2
MANUFACTURER :		s & Power Industries AL MEDICAL MERA	- ,		OUT-3 - PROPERTY OF THE PROPER	
IDENTIFICATION:	Part No.: VZW2 S/N: AMQ01955	- 7			UUT-3	
DESCRIPTION:	Component of System	f GE Healthcare D	iscovery RF180		→	
	Mounting Plat P/N 162321.	e is included in GN	MM Seismic Kit			
MOUNTING:		loor) mounted usin				
	DIMENSIONS (i	n.)		LOWEST	RESONANT FREQUE	NCY (Hz.)
Width	Depth	Height	Weight (lb.)	Longit. (X)-Axis	Transv. (Y)-Axis	Vert. (Z)-Axis
20.08	16.14	41.73	201	11.57	17.69	9.57
ICC-ES AC156 SH	AKE TABLE TES	T PARAMETERS	OSP-06	68		CODE: 2022 CBC
S _{DS} (G)	z/h	IP VYX/YX/X	A _{FLX-H} (G)	A _{RIG-H} (G)	A _{FLX-V} (G)	A _{RIG-V} (G)
2.0 2.5	1	1.5 BY:	Moh& 2 nmac	l Karir 2 ,4	1.68	0.68

UUT-2005-4	Manual Over	head Tube Su	uspension (O	TS)		
MANUFACTURER:	GENERAL MEDICA	L MERATE SpA (GM	M)	3/8/		
IDENTIFICATION:	Type No.: 5769324 S/N: 37500	PA				
DESCRIPTION:	Component of GE H	lealthcare Discovery I	RF180 System			
	Telescoping tube ex support.	tended with focal poin	nt 63" below			
MOUNTING:	Hex Bolts w/ Unistrumounting bracket to Longitudinal Rail at M10x30 Class 8.8, s Typical each interse approx. 76.8" apart supports spaced 27 spans perpendiculal HSS frame member	h (2) — 3/8" DIA SAE at P1008 channel nuts. Unistrut P1001 support mounting bracket macked carew cage, plain was action of (2) Longitudir (out-to-out) and (6) — 6" apart. Each Unistratio longitudinal rails as spaced 40" max o.coolts and Unistrut P10	s through a GMM ort. Connection to de with (1) — ther, and M10 nut. and rails spaced Unistrut P1001 rut P1001 supports and is attached to the wide with (2) — ½" DIA			
	DIMENSIONS (in.)		LOWEST	RESONANT FREQUI	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Longit. (X)-Axis	Transv. (Y)-Axis	Vert. (Z)-Axis
118.5	173.6	49.2 – 116.1	735	N/A	N/A	N/A
ICC-ES AC156 SH	AKE TABLE TEST PA	ARAMETERS				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 str	uctural integrity and m	nanufacturer requiren	nents for functionality	after AC156 test.	



ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2005-5	Vertical Non-	tilting Wall S	tand, RIGHT	opening w/ 3	543 EZ DETEC	CTOR
MANUFACTURER:	GENERAL MEDICA	L MERATE SpA (GM	M)			
IDENTIFICATION:	Type No.: 5805017 S/N: 37569	/				
DESCRIPTION:	Component of Dis	covery RF180 Sys	tem			
	Includes detector: Thales Wireless d CMEDB 14.96" x 0.59" x 18 Part No.: 6312483		3 EZ - Option		wra j	A TOWN
MOUNTING:	(2) – M6 Class 8.8 x 6.3" W x 4" H ste Floor Attachment:	GMM bracket at top bolts to holes tappeel plate welded to	ped in 3/8" THK test frame.			
	DIMENSIONS (in.)			LOWEST	RESONANT FREQUI	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Longit. (X)-Axis	Transv. (Y)-Axis	Vert. (Z)-Axis
24.41	16.75	88.58	377	N/A	N/A	N/A
ICC-ES AC156 SH	AKE TABLE TEST PA	RAMETERS)SP-0668			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	B5Y: Mc	hamı3:2ıd Ka	rim 2.4 O	1.68	0.68

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

UUT-2005-6	Vertical No	n-tilting Wall	Stand, LEFT o	pening w/ 24	130 EZ DETEC	TOR
MANUFACTURER:	GENERAL MEDIC	CAL MERATE SpA	(GMM)			- A
IDENTIFICATION:	Type No.: 5805016 S/N: 37569	PALIT				
DESCRIPTION:	Component of Dis	covery <mark>RF180 Sys</mark> t	temDING			
	Includes detector: Thales Wireless d CMND 10.43" x 0.59" x 12 Part No.: 6312559		0 EZ - Option	N.		
MOUNTING:	(2) – M6 Class 8.8 x 6.3" W x 4" H ste Floor Attachment:	ed: GMM bracket at top bolts to holes tappeel plate welded to USB J429 Grade 5 Bol				
	DIMENSIONS (in.)			LOWEST	RESONANT FREQUI	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Longit. (X)-Axis	Transv. (Y)-Axis	Vert. (Z)-Axis
24.41	16.75	88.58	377	N/A	N/A	N/A
ICC-ES AC156 SH	AKE TABLE TEST PA	RAMETERS				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	6 requirements for stru	ıctural integrity and m	nanufacturer requiren	nents for functionality	after AC156 test.	-



ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2005-7	Control C	onsole (CLIS	SIS EXEL DR	F)		
MANUFACTURER:	GENERAL ME	DICAL MERATE S	SpA (GMM)			1
IDENTIFICATION:	Type No.: 57867 S/N: 37384	79				1 TX
DESCRIPTION:	Component of	Discovery RF180	System			
	- Requires use	of GMM Seismic	Kit 162395.	9		
MOUNTING:		ountertop Attached "SMS to ¾" plywo		0		
	DIMENSIONS (ir	1.)		LOWEST	RESONANT FREQUE	NCY (Hz.)
Width	Depth	Height	Weight (lb.)	Longit. (X)-Axis	Transv. (Y)-Axis	Vert. (Z)-Axis
17.32	10.63	7.48	18	>50	>50	48.08
ICC-ES AC156 SH	AKE TABLE TES	T PARAMETERS	OSP-06	68	1	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	0 1.5BY:	Moh <u>a</u> mmad	l Karira	1.68	0.68
Unit satisfied AC15	6 requirements for	r structural integrity a	and manufacturer re	quirements for function	nality after AC156 test.	

UUT-2005-8	RadiForce	(23.0") Multi	itouch Color	LCD Monitor	w/ GMM Desk I	Mount Kit
MANUFACTURER :	EIZO / GMM					
IDENTIFICATION:	Model No.: MS236 S/N: 24244099	WT MIZ				
DESCRIPTION:	Component of Di	scovery RF180 S	System			
	Includes Desk M	ount Kit:		201		
	GMM Desk Mour Part No.: 162396					uura 3
MOUNTING:		ntertop Attached) SMS to ¾" plywoo				
	DIMENSIONS (in.)		LOWEST	RESONANT FREQUE	ENCY (Hz.)
Width	Depth	Height	Weight (lb.)	Longit. (X)-Axis	Transv. (Y)-Axis	Vert. (Z)-Axis
21.93	9.75	21.0	22.5	4.32	7.45	11.75
ICC-ES AC156 SH	IAKE TABLE TEST F	PARAMETERS				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	66 requirements for s	tructural integrity ar	nd manufacturer req	uirements for functiona	lity after AC156 test.	-



ATTACHMENT 2: TEST SPECIMEN SUMMARY

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UUT-2005-9	Monitor	Extender B	ox			
MANUFACTURER :	GENERAL MEDICAL MERATE SpA (GMM)				**	
IDENTIFICATION:	Type No.: O-D4000RF-PDT (EXT Box) S/N: N/A					
DESCRIPTION:	Component of Discovery RF180 System					
MOUNTING:	Rigid Base (Countertop Attached) with (2) – #10 x 3/4" SMS to 3/4" plywood.					
DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)			
Width	Depth	Height	Weight (lb.)	Longit. (X)-Axis	Transv. (Y)-Axis	Vert. (Z)-Axis
8.25	9.75	5.5	3.5	>50	>50	14.86
ICC-ES AC156 SH	IAKE TABLE TES	ST PARAMETERS	OSP-0	0668		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	o 1.5 B	Y: Mc3:2amm	ad Ka241	1.68	0.68
Linit actiofied AC15	6 requirements f	or structural integr	ity and manufacture	or requirements for functi	onality after AC156 test.	