### OFFICE USE ONLY APPLICATION FOR OSHPD SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP) APPLICATION #:** OSP - 0506 - 10 **OSHPD Special Seismic Certification Preapproval (OSP)** New □ Renewal **Manufacturer Information** Manufacturer: Carestream Health, Inc. Manufacturer's Technical Representative: Ted Young Mailing Address: 150 Verona Street, Rochester, NY 14608 Telephone: On File Email: On File **Product Information** Product Name: DRX Ascend Product Type: Digital Radiography System Product Model Number: See Attachment 1 (List all unique product identification numbers and/or part numbers) General Description: Multiple component medical diagnostic imaging system. Seismic enhancements and modifications to address anomalies observed in testing shall be incorporated into the certified units. Mounting Description: See Attachment 1. **Applicant Information** Applicant Company Name: EASE Co. Contact Person: Jonathan Roberson, S.E. Mailing Address: 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709 Telephone: (909) 606-7622 Email: j.roberson@easeco.com I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016. Signature of Applicant: Date: 1/04/2017 Title: Principal Structural Engineer Company Name: EASE Co.

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





Page 1 of 3

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: EASE Co.
Name: Jonathan Roberson, S.E. California License Number: S4197
Mailing Address: _ 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709
Telephone: (909) 606-7622 Email: j.roberson@easeco.com
Supports and Attachments Preapproval
Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)
Supports and attachments are not preapproved
Certification Method
<ul> <li>☐ Testing in accordance with:</li> <li>☐ Other (Please Specify):</li> </ul>
Testing Laboratory
Company Name: _ Environmental Testing Laboratory, Inc.
Contact Name: Brady Richard
Mailing Address: 11034 Indian Trail, Dallas, TX. 75229-3513
Telephone: (972) 247-9657 Email: brady@etldallas.com





# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes □ No
Design Basis of Equipment or Components (F <sub>p</sub> /W <sub>p</sub> ) = See Attachment 1
S <sub>DS</sub> (Design spectral response acceleration at short period, g) = 2.0 (z/h = 1); 2.5 (z/h = 0)
a <sub>p</sub> (In-structure equipment or component amplification factor) = See Attachment 1
R <sub>p</sub> (Equipment or component response modification factor) = See Attachment 1
$Ω_0$ (System overstrength factor) = See Attachment 1
I <sub>p</sub> (Importance factor) = <b>1.5</b>
z/h (Height factor ratio) = $1 (S_{DS} = 2.0)$ ; 0 ( $S_{DS} = 2.5$ )
Equipment or Component Natural Frequencies (Hz) = See Attachment 2
Overall dimensions and weight (or range thereof) = See Attachment 1
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15:   Yes  No
Design Basis of Equipment or Components (V/W) =
S <sub>DS</sub> (Design spectral response acceleration at short period, g) =
S <sub>D1</sub> (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient ) =
$\Omega_0$ (System overstrength factor) =
C <sub>d</sub> (Deflection amplification factor) =
I <sub>P</sub> (Importance factor) = 1.5
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No
List of Attachments Supporting Special Seismic Certification
☐ Test Report(s) ☐ Drawings ☐ Calculations ☐ Manufacturer's Catalog
☐ Other(s) (Please Specify): Attachments 1 & 2
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022
Signature: Date: June 6, 2017
Print Name: Ali Sumer Title: DSE  Special Seismic Certification Valid Up to: S <sub>DS</sub> (g) = See Above z/h = See Above
Condition of Approval (if applicable):
Condition of Approval (ii applicable).

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### ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 1 OF 3

#### TABLE 1:

System Manufacturer	Carestream He	alth, Inc.											
System	DRX Ascend												
COMPONENT	IDENTIFICATION NO.	APPRO W	X. DIMENSIC	ONS (IN.)	MAX. WT.	MOUNT	BASIS [1]	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	$\Omega_0$
OVERHEAD TUBE CRANES					•	<u> </u>	<u> </u>						
Overhead Tube Crane (3m bridge) (Siemens) including:	RS-590	24.38	118.12	32.67 / 103.54	765	Ceiling	UUT1	3.60 1.13	2.0 2.5	1 0	2 ½	2 ½	2
Touch Screen User Interface (Carestream/Techvision)	QG-TV-IP-C												
X-ray Tube (Varian)	Varian RAD-92												
Collimator, Motorized (Carestream)	Linear MC150												
Overhead Tube Crane (3m bridge) (Siemens) including:	RS-590	24.38	118.12	32.67 / 103.54	760	Ceiling	UUT1	3.60 1.13	2.0 2.5	1 0	2 ½	2 ½	2
Touch Screen User Interface (Carestream/Techvision)	QG-TV-IP-C												
X-ray Tube (Varian)	Varian RAD-92												
Collimator, Manual (Ralco)	R221/A DHHS												
PATIENT TABLES [2]													
Patient Table	QT-750	85.00	35.55	21 / 32.5	580	Rigid Base	UUT3	2.40	2.0	1	1	1 ½	1 ½
DRX-Plus 4343 Detector	2272233101	46cm	46cm	1.6cm	8.2			1.13	2.5	0			
Patient Table	TT-750	85.00	35.55	21 / 32.5	580	Rigid Base	SAME	2.40	2.0	1	1	1 ½	1 ½
DRX-Plus 4343 Detector	2272233101	46cm	46cm	1.6cm	8.2			1.13	2.5	0			
Patient Table	QT-750	85.00	35.55	21 / 32.5	580	Rigid Base	INT	2.40	2.0	1	1	1 ½	1 ½
DRX-Plus 4343C Detector	2272233102							1.13	2.5	0			
DRX-Plus 4343F Detector	2272233103												
DRX-Plus 4343FC Detector	2272233104												
DRX-Plus 3543 Detector	2272233001												
Patient Table	TT-750	85.00	35.55	21 / 32.5	580	Rigid Base	INT	2.40	2.0	1	1	1 ½	1 ½
DRX-Plus 4343C Detector	2272233102							1.13	2.5	0			
DRX-Plus 4343F Detector	2272233103												
DRX-Plus 4343FC Detector	2272233104												
DRX-Plus 3543 Detector	2272233001												

Table continues next page



### ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 2 OF 3

#### TABLE 1:

System Manufacturer	Carestream He	alth, Inc.											
System	DRX Ascend												
/	IDENTIFICATION	APPRO	X. DIMENSIO	ONS (IN.)	MAX. WT.	MOUNT		F 44/	6	-//-	_		
COMPONENT	NO.	W	D	Н	(LB.)		BASIS [1]	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	$\Omega_0$
Patient Table	QT-750	85.00	35.55	21 / 32.5	580	Rigid Base	UUT4	2.40	2.0	1	1	1 ½	1 ½
<ul> <li>DRX-Plus 3543C Detector</li> </ul>	2272233002	38cm	46cm	1.6cm	6.8			1.13	2.5	0			
Patient Table	TT-750	85.00	35.55	21 / 32.5	580	Rigid Base	SAME	2.40	2.0	1	1	1 ½	1 ½
DRX-Plus 3543C Detector	2272233002	38cm	46cm	1.6cm	6.8			1.13	2.5	0			
WALL STANDS [2]													
Wallstand, Manual Tilting	QW-420-MT	34.1	27.15	84.0	389	Wall/Floor	UUT5	2.40	2.0	1	1	1 ½	1 ½
DRX-Plus 4343 Detector	2272233101	46cm	46cm	1.6cm	8.2			1.13	2.5	0			
Wallstand, Manual Tilting	TW-420-MT	34.1	27.15	84.0	389	Wall/Floor	SAME	2.40	2.0	1	1	1 ½	1 ½
DRX-Plus 4343 Detector	2272233101	46cm	46cm	1.6cm	8.2			1.13	2.5	0			
Wallstand, Manual Tilting	QW-420-MT	34.1	27.15	84.0	389	Wall/Floor	INT	2.40	2.0	1	1	1 ½	1 ½
DRX-Plus 4343C Detector	2272233102							1.13	2.5	0			
DRX-Plus 4343F Detector	2272233103												
DRX-Plus 4343FC Detector	2272233104												
DRX-Plus 3543 Detector	2272233001												
Wallstand, Manual Tilting	TW-420-MT	34.1	27.15	84.0	389	Wall/Floor	INT	2.40	2.0	1	1	1 ½	1 ½
<ul> <li>DRX-Plus 4343C Detector</li> </ul>	2272233102							1.13	2.5	0			
DRX-Plus 4343F Detector	2272233103												
<ul> <li>DRX-Plus 4343FC Detector</li> </ul>	2272233104												
DRX-Plus 3543 Detector	2272233001												
Wallstand, Manual Tilting	QW-420-MT	34.1	27.15	84.0	389	Wall/Floor	UUT6	2.40	2.0	1	1	1 ½	1 ½
DRX-Plus 3543C Detector	2272233002	38cm	46cm	1.6cm	6.8			1.13	2.5	0			
Wallstand, Manual Tilting	TW-420-MT	34.1	27.15	84.0	389	Wall/Floor	SAME	2.40	2.0	1	1	1 ½	1 ½
DRX-Plus 3543C Detector	2272233002	38cm	46cm	1.6cm	6.8			1.13	2.5	0			
POWER DISTRIBUTION								_	_	<u> </u>	_	_	_
Everest Generator [2]	QG80-16R-0979	25.4	16.7	24.1	166	Rigid Base	UUT7	1.44 1.13	2.0 2.5	1 0	1	2 ½	2

Table continues next page



### ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 3 OF 3

#### TABLE 1:

System Manufacturer	Carestream He	alth, Inc.											
System	DRX Ascend												
	/	APPRO	X. DIMENSIO	ONS (IN.)	MAX. WT.								
COMPONENT	IDENTIFICATION NO.	w	D	н	(LB.)	MOUNT	BASIS [1]	F <sub>P</sub> /W <sub>P</sub>	S <sub>DS</sub>	z/h	a <sub>P</sub>	R <sub>P</sub>	$\Omega_0$
USER INTERFACE													
Console w/ HP RP5 Model 5810 computer	DRX-1 System	19.75	14.5	8.5	34	Rigid Base	UUT8	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Dell 23" Touch Screen Monitor	DELL P2314T	22.4	4	16	10.7	Rigid Base	UUT9	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
		22.4	3.25	16	12.7	Wall	UUT14	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
HP 23" Touch Screen Monitor	HP S230TM	23.6	4	16	12.3	Rigid Base	UUT15	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
		23.6	3.25	16	14.3	Wall	UUT10	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Wireless Access Point (D-Link)	D-Link DAP-2553	7.8	4.7	1.5	0.9	Rigid Base	UUT11	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
ET Switch (D-Link)	D-Link GO-SW-8G	5.25	3	1.2	0.7	Rigid Base	UUT12	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Keyboard (HP)	HP KU-0316	18	6.75	0.75	2	Rigid Base	UUT13	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Prep Expose Switch	QV-CS-CB	5	2.75	1.3	1.5	Rigid Base	UUT16	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Mount  Notes	FLOOR (RIGID BASE): free-standing, base-mounted condition with the component rigidly attached to a supporting structure and no lateral support above the base.  WALL: unit is fully supported- both vertically and laterally – by a building wall or partition.  CEILING (SUSPENDED): unit is anchored to and suspended from a framing system at or slightly above the ceiling line of the room  WALL/FLOOR WALL/FLOOR: unit bears on and is anchored to the supporting floor. In addition, lateral restraint anchoring the unit to an adjacent wall or other supporting structure is provided along the height of the equipment.  1. BASIS:  • UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program.  • SAME: Model is physically, mechanically & electrically the identical to test specimen. Difference is limited to model number, color, or software.  • INT (Interpolate/Extrapolate): indicates a model that was not specifically tested, and by which seismic certification is established through evaluation of testing of other, similar models in the product line.  2. Requires use of Carestream Seismic Kit (P/N AE7674) or equivalent.  3. Weight of wall stand includes grid and excludes weight of detector.  4. Patient Table weight does not include 520 lb. simulated patient load or detector.												



TEST CRITERIA

ICC-ES AC156

 $S_{DS}\left( G\right)$ 

2.0

2.5

Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.

z/h

CODE

CBC 2016

### CARESTREAM HEALTH, INC.

#### **ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS**

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A<sub>RIG-V</sub> (G)

0.68

UUT1	Overhead Tube	e Crane w	/ 3m	Brido	ge & Moto	rized Collin	nator			
MANUFACTURER:	Carestream Health In	c.								
IDENTIFICATION:	Model No.: RS-590					7 8				
DESCRIPTION:	Component of DRX A Manual movement ald Motorized tracking on Tube Stand 3D V w/ 3 Installed options inclu  TUI  X-Ray Tube Ho X-Ray Tube Ins Collimator. Mot	ong longitudina vertical axis. 3m Bridge de: (Carestream ousing sert	al & tran	risverse /ision ( (Varia (Var	(Siemens)					
MOUNTING:	Ceiling Mounted using (2) – 3/8" socket head nut w/ spring. (torque Typ. each of 6 Unistru Rail.	l screws zinc o =19 ft-lb)				10				- Leve
PROPERTIES:										
	DIMENSIONS (in.)					LOV	VEST RESC	NANT FREQU	JENCY	′ (Hz.)
Width	Depth	Height		W	/eight (lb.)	Transv-Axi	s Lo	ngitAxis		Vert-Axis
24.40	118.12	32.67 /103	3.54		765	4.16		2.95		6.16
SHAKE TABLE	TEST PARAMETERS						-			
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	Z	/h	Ι <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G	A <sub>FLX-V</sub> (	G)	A <sub>RIG-V</sub> (G
CBC 2016	ICC-ES AC156	2.0 2.5		1	1.5	3.20	2.40	2.40 1.68 0		0.68
Unit maintained	structural integrity and re	emained functi	onal pe	r manu	facturer requir	ement after AC1	56 test.	•		

UUT2	Overhead Tube	e Crane w/ 3m I	Bridge & Manı	ual Collimator						
MANUFACTURER:	Carestream Health In	C.								
IDENTIFICATION:	Model No.: RS-590					Live Land				
DESCRIPTION:  MOUNTING:	Component of DRX Ascend Digital Radiography System Manual movement along longitudinal & transverse axes. Motorized tracking on vertical axis. Tube Stand 3D V w/ 3m Bridge (Siemens) Installed options include:  TUI (Carestream /Tech Vision QG-TV-IP-C) X-Ray Tube Housing (Varian Sapphire) X-Ray Tube Insert (Varian RAD-92) Collimator. Manual (Ralco R221/A DHHS)  Ceiling Mounted using:									
WOONTING.	(2) – 3/8" socket head nut w/ spring. (torque	screws zinc coated w								
PROPERTIES:										
	DIMENSIONS (in.)			LOWEST	RESONANT FREQU	JENCY (Hz.)				
Width	Depth	Height	Weight (lb.)	Transv-Axis	LongitAxis	Vert-Axis				
24.40	118.12	32.67 /103.54	760	4.13	3.25	13.14				
SHAKE TABLE T	EST PARAMETERS									

1.5

A<sub>FLX-H</sub> (G)

3.20

A<sub>RIG-H</sub> (G)

2.40

A<sub>FLX-V</sub> (G)

1.68



### ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

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UUT3	Patient Table	w/ DRX-PI	us 43	343 E	Detector							
MANUFACTURER:	Carestream Health I	nc.										
IDENTIFICATION:	Model No.: QT-750											
DESCRIPTION:	X-Ray Anti-So	Radiographic <sup>-</sup> 43 Wireless po	Table	. ,	•	NE MAN - M						
	520 Patient load Unit included enhan production units. Su were collected into a (Carestream P/N AE											
MOUNTING:	Rigid Base (Floor) m (6) - ½" DIA GR so (Torque = 40 ft-lb)		screws	w/ wa	shers				70			
PROPERTIES:												
	DIMENSIONS (in.)					LOV	VEST RESONA	NT FREQUEN	ICY (Hz.)			
Width	Depth	Height		W	eight (lb.)	Front-Axis	Side	-Axis	Vert-Axis			
85.0	35.55	21.0 / 32.	.5		580.0	4.88	19	.97	5.90			
SHAKE TABLE TE	ST PARAMETERS		•				•	•				
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	z/l	h	I <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)			
CBC 2016	ICC-ES AC156	2.0 2.5	1		1.5	3.20	2.40	1.68	0.68			
Unit maintained str	ructural integrity and re	mained function	onal per	manu	facturer requi	ement after AC1	56 test.	-	•			

UUT4	Patient Table	w/ DRX-P	lus 35	43C	Detector							
MANUFACTURER:	Carestream Health	nc.					12	71		THE STATE OF THE S		
IDENTIFICATION:	Model No.: QT-750						47	A Line		X		
DESCRIPTION:	Component of DRX Ascend digital radiography system Elevating Float-Top Radiographic Table Installed options:  DRX-Plus 3543C Wireless portable digital detector  X-Ray Anti-Scatter Grid  520 Patient load Unit included enhancements not found on standard production units. Subsequent to testing, these modifications were collected into a manufacturer-installed option package (Carestream P/N AE7674).  Rigid Base (Floor) mounted using:											
MOUNTING:	Rigid Base (Floor) n (6) - ½" DIA GR so (Torque = 40 ft-lb)		screws	w/ was	shers	V 3			. 1			
PROPERTIES:												
	DIMENSIONS (in.)					LOV	VEST I	RESONA	NT FREQUEN	ICY (Hz.)		
Width	Depth	Height		W	eight (lb.)	Front-Axis	,	Side	-Axis	Vert-Axis		
85.0	35.55	21.0 / 32	.5		580.0	4.12		23	.86	6.81		
SHAKE TABLE TI	EST PARAMETERS					-	•		•			
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	z/ł	1	I <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RI</sub>	<sub>э-н</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)		
CBC 2016	ICC-ES AC156	2.0 2.5	1 0		1.5	3.20	2	2.40	1.68	0.68		
Unit maintained st	ructural integrity and re	emained function	onal per	manut	facturer requir	ement after AC1	56 test	i.	•			



**UUT6** 

### CARESTREAM HEALTH, INC.

### **ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS**

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UUT5	Manual Tilting Wallstand w/ DRX-Plus 4343
MANUFACTURER:	Carestream Health Inc.
IDENTIFICATION:	Model No.: QW-420-MT
DESCRIPTION:	Component of DRX Ascend digital radiography system Installed options:  DRX-Plus 4343 Wireless portable digital detector  X-Ray Anti-Scatter Grid  4" Extension Box Unit included enhancements not found on standard production units. Subsequent to testing, these modifications were collected into a manufacturer-installed option package (Carestream P/N AE7674).
MOUNTING:	Wall/Floor Mounted using: $(4) - \frac{1}{2}$ " dia GR 8 bolts to floor and $(4) - \frac{3}{8}$ "dia GR 8 bolts to wall. All bolts include washers.
PROPERTIES:	



#### LOWEST RESONANT FREQUENCY (Hz.) DIMENSIONS (in.) Width Vert-Axis Depth Height Weight (lb.) Side-Axis Front-Axis 34.1 27.15 84.0 389.0 5.76 7.13 10.55 SHAKE TABLE TEST PARAMETERS CODE **TEST CRITERIA** S<sub>DS</sub> (G) z/h $I_{P}$ A<sub>FLX-H</sub> (G) A<sub>RIG-H</sub> (G) A<sub>FLX-V</sub> (G) $A_{\text{RIG-V}}\left(G\right)$ 2.0 **CBC 2016** ICC-ES AC156 1.5 3.20 2.40 1.68 0.68 2.5 Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.

Manual Tilting Wallstand w/ DRX-Plus 3543C Detector

MANUFACTURER:	Carestream Health	Inc.					1	
IDENTIFICATION:	Model No.: QW-420	-MT						
DESCRIPTION:	Component of DRX Installed options:  DRX-Plus 35.  X-Ray Anti-Si  4" Extension Unit included enhan production units. Su were collected into a (Carestream P/N AB	43C Wireless patter Grid Box cements not found because to tea	portable digi bund on staresting, these	tal detector  ndard  modifications			X	
MOUNTING:	Wall/Floor Mounted (4) – ½" dia GR 8 bo (4) – 3/8"dia GR 8 b All bolts include was	olts to floor and olts to wall.	i					1
PROPERTIES:								
	DIMENSIONS (in.)				LO\	WEST RESONA	NT FREQUENC	CY (Hz.)
Width	Depth	Height		Weight (lb.)	Side-Axis	Fron	t-Axis	Vert-Axis
34.1	27.15	84.0		389.0	6.03	6	.79	11.59
SHAKE TABLE T	EST PARAMETERS							
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68
Unit maintained st	tructural integrity and re	emained function	onal per ma	nufacturer requi	rement after AC1	156 test.	•	



### **ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS**

ATTACHMENT PAGE | 4 OF 8

UUT7	Everest Gen	erator			·	·	·			
MANUFACTURER:	Carestream Health	Inc.				E	-		-	
IDENTIFICATION:	Model no.: QG-80G					-				
DESCRIPTION:	Component of DRX High Voltage X-Ray		radiog	raphy s	system	-		-	-	-
	Unit included enhan production units. Ex AE7038-A) mounted cabinet and provide	ternal braced by to the rear of	oracket the uni	(Cares	stream P/N					
Rigid Base (Floor) Mounted using: (6) – ½"-20 hex head machine screws in tapped holes of aluminum plate.										
PROPERTIES:										
	DIMENSIONS (in.)					LOV	VEST RESONA	NT FREQU	JENC	Y (Hz.)
Width	Depth	Height		W	/eight (lb.)	Side-Axis	Fron	t-Axis		Vert-Axis
25.4	16.7	24.1			166	>50	39	9.4		>50
SHAKE TABLE TE	ST PARAMETERS									
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	Z	/h	Ι <sub>Ρ</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>RIG-H</sub> (G) A <sub>FLX-V</sub> (G)		A <sub>RIG-V</sub> (G)
CBC 2016	ICC-ES AC156	2.0 2.5	(	1	1.5	3.20	2.40	1.68		0.68

UUT8	Console
MANUFACTURER:	Carestream Health Inc.
IDENTIFICATION:	Model No.: DRX-1 System
DESCRIPTION:	Component of DRX Ascend digital radiography system Includes HP RP5 Model 5810 computer
MOUNTING:	Rigid Base (Floor) Mounted using: (4) $-\frac{1}{4}$ "-20 hex head machine screws in tapped holes of aluminum plate.

Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.



PROPERTIES:										
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height		Weight (lb.)	Side-Axis	Fron	t-Axis	Vert-Axis		
19.75	14.5	8.5		34	41.5 26		6.9	29.3		
SHAKE TABLE TE	SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G	S) A <sub>RIG-V</sub> (G)		
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68		
Unit maintained str	Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.									

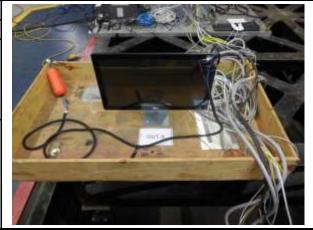
#### ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

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UUT9	Dell Monitor 23" LCD
MANUFACTURER:	Dell
IDENTIFICATION:	Model No.: P2314T
DESCRIPTION:	Component of DRX Ascend Digital Radiography System

MOUNTING: Rigid Base Mounted using:

Carestream-provided monitor mount (2.5mm cold formed steel) to  $\frac{3}{4}$ " thick plywood base w/ (3) –  $\frac{1}{4}$ " -20 hex head machine screws & washers w/ nuts & washers on back side



PROPERTIES:

DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)						
Width	Depth	Height		Weight (lb.)	Side-Axis	Fron	t-Axis	Vert-Axis			
22.4	4	16		10.7	6.6		.9	3.9			
SHAKE TABLE TEST PARAMETERS											
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)			
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68			
Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.											

UUT10	HP 23" LCD Monitor
MANUFACTURER:	HP
IDENTIFICATION:	Model No.: HP S230tm
DESCRIPTION:	Component of DRX Ascend Digital Radiography System

MOUNTING: Wall Mounted using:

Carestream-provided monitor mount (2.5mm cold formed steel) w/ (4) ¼" dia HWH TEK Screws through 5/8" gypsum board to 3/16" steel backing.



PROPERTIES:

DIMENSIONS (in.)					LOV	NT FREQUENC	NCY (Hz.)		
Width	Depth	Height		Weight (lb.)	Side-Axis	Fron	t-Axis	Vert-Axis	
23.6	3.25	16		14.3	14.69	8.	41	8.44	
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	z/h	Ι <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)	
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68	
Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.									

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#### ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

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UUT11	Wireless Access Point
MANUFACTURER:	D-Link
IDENTIFICATION:	Model No.: DAP-2553
DESCRIPTION:	Component of DRX Ascend Digital Radiography System

MOUNTING: Rigid Base (Floor) Mounted using:

(2) lines of ½" x 4.5" 3M Dual Lock SJ3541 (TYPE 400)

mated to SJ3542 (TYPE 170)



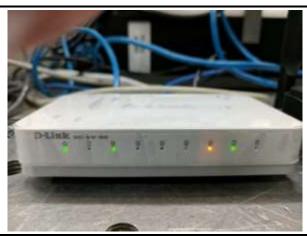
PROPERTIES: Note: Dimensions exclude antennas LOWEST RESONANT FREQUENCY (Hz.) DIMENSIONS (in.) Width Weight (lb.) Front-Axis Side-Axis Vert-Axis Depth Height 7.8 4.7 1.5 0.9 >50 43.25 >50 SHAKE TABLE TEST PARAMETERS CODE **TEST CRITERIA** S<sub>DS</sub> (G) z/h A<sub>FLX-H</sub> (G) A<sub>RIG-H</sub> (G) A<sub>FLX-V</sub> (G) A<sub>RIG-V</sub> (G)  $I_P$ 2.0 **CBC 2016** ICC-ES AC156 1.5 3.20 2.40 1.68 0.68 2.5 0 Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.

UUT12	ET Switch
MANUFACTURER:	D-Link
IDENTIFICATION:	Model No.: GO-SW-8G
DESCRIPTION:	Component of DRX Ascend Digital Radiography System

MOUNTING: Rigid Base (Floor) Mounted using:

(2) lines of ½" x 3.5" 3M Dual Lock SJ3541 (TYPE 400)

mated to SJ3542 (TYPE 170)



PROPERTIES:											
DIMENSIONS (in.)						LOWEST RESONANT FREQUENCY (Hz.)					Y (Hz.)
Width	Depth	Height		Weight (lb.)		Front-Axis		Side-Axis			Vert-Axis
5.25	3	1.2		0.7		>50	>50		50 n/a*		n/a*
SHAKE TABLE TE	SHAKE TABLE TEST PARAMETERS										
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	z/h	1	$I_P$	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)		RIG-H (G) A <sub>FLX-V</sub> (G		A <sub>RIG-V</sub> (G)
CBC 2016	ICC-ES AC156	2.0 2.5	1 0		1.5	3.20	2.40		1.68		0.68
Unit maintained st	Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.										



#### ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS

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UUT13	Keyboard
MANUFACTURER:	Carestream Health Inc.
IDENTIFICATION:	Model No.: KU-0316
DESCRIPTION:	Component of DRX Ascend Digital Radiography System

MOUNTING: Rigid Base (Floor) Mounted using:

(2) lines of ½" x 5.25" 3M Dual Lock SJ3541 (TYPE 400)

mated to SJ3542 (TYPE 170)



PROPERTIES: DIMENSIONS (in.) LOWEST RESONANT FREQUENCY (Hz.) Width Height Front-Axis Vert-Axis Weight (lb.) Side-Axis Depth 18 6.75 0.75 2 >50 >50 27.9 SHAKE TABLE TEST PARAMETERS CODE **TEST CRITERIA** S<sub>DS</sub> (G) z/h A<sub>FLX-H</sub> (G) A<sub>RIG-H</sub> (G) A<sub>FLX-V</sub> (G) A<sub>RIG-V</sub> (G)  $I_P$ 2.0 **CBC 2016** ICC-ES AC156 1.5 3.20 2.40 1.68 0.68 2.5 0

UUT14	Dell 23" LCD Monitor
MANUFACTURER:	Dell
IDENTIFICATION:	Model No.: P2314T
DESCRIPTION:	Component of DRX Ascend Digital Radiography System

MOUNTING: Wall Mounted using:

Carestream-provided monitor mount

(2.5mm cold formed steel) w/

(4) 1/4" dia HWH TEK Screws through 5/8" gypsum board to

Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.

3/16" steel backing.



PROPERTIES:											
DIMENSIONS (in.)						LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height		Weight (lb.)		Front-Axis		Side-Axis		Vert-Axis	
22.4	3.25	16		12.7		14.40	9.		.62		9.68
SHAKE TABLE TE	SHAKE TABLE TEST PARAMETERS										
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	z/h I <sub>P</sub> A <sub>FLX-H</sub> (G) A <sub>RIG-H</sub> (G) A <sub>F</sub>				A <sub>FLX-V</sub> (	G)	A <sub>RIG-V</sub> (G)		
CBC 2016	ICC-ES AC156	2.0 2.5	1 0		1.5	3.20	2.40		1.68		0.68
Unit maintained st	Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.										



### **ATTACHMENT 2: SEISMIC CERTIFIED COMPONENTS**

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UUT15	HP 23" LCD Monitor
MANUFACTURER:	_ HP
IDENTIFICATION:	Model No.: HP S230tm
DESCRIPTION:	Component of DRX Ascend Digital Radiography System

MOUNTING:

Rigid Base Mounted using Carestream-provided monitor mount (2.5mm cold formed steel) to 3/4" thick plywood base w/  $(3) - \frac{1}{4}$ " -20 hex head machine screws & washers w/ nuts & washers on back side.



PROPERTIES:

DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)					
Width	Depth	Height		Weight (lb.)	Front-Axis	Side	-Axis	Vert-Axis		
23.6	4	16		12.3	5.68	3.	36	3.34		
SHAKE TABLE T	EST PARAMETERS									
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	z/h	I <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	A <sub>FLX-V</sub> (G)	A <sub>RIG-V</sub> (G)		
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68	0.68		
Unit maintained s	tructural integrity and re	mained functio	nal per m	anufacturer requir	ement after AC1	56 test.		ı		

UUT16	Prep Expose Switch				
MANUFACTURER:	Carestream Health Inc.				
IDENTIFICATION:	Model No.: QV-CS-CB				
DESCRIPTION:	Component of DRX Ascend Digital Radiography System				

MOUNTING:

Rigid Base (Floor) Mounted using: (2) lines of ½" x 4.75" 3M Dual Lock SJ3541 (TYPE 400) mated to SJ3542 (TYPE 170 )



<b>PROPERTIES</b>	
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DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)				
Width	Depth	Height		Weight (lb.)	Front-Axis	Side	-Axis		Vert-Axis
5	2.75	1.3		1.5	>50	>50 >50		>50	
SHAKE TABLE TEST PARAMETERS									
CODE	TEST CRITERIA	S <sub>DS</sub> (G)	z/h	l <sub>P</sub>	A <sub>FLX-H</sub> (G)	A <sub>RIG-H</sub> (G)	RIG-H (G) A <sub>FLX-V</sub> (C		A <sub>RIG-V</sub> (G)
CBC 2016	ICC-ES AC156	2.0 2.5	1 0	1.5	3.20	2.40	1.68		0.68
Unit maintained structural integrity and remained functional per manufacturer requirement after AC156 test.									