APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY	
APPLICATION #:	OSP – 0526

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: **AGFA NV**

Manufacturer's Technical Representative: Stefan Stallmeister

Mailing Address: 2640 Mortsel, Belgium

Telephone: On File Email: On File

Product Information

Product Name: **DR 800**

Product Type: Digital Radiography Fluoroscopy System

Product Model Number: See Attachment 1
(List all unique product identification numbers and/or part numbers)

General Description: Multiple component digital radiography medical diagnostic imaging system. The DR 800 is a X-ray modality. It is designed for general radiography and dynamic applications.

Mounting Description: See Attachment 1

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OSHPD
OSP-0526
By: Timothy J Piland
DATE: 05/26/2020
CALIFORNIA BUILDING CODE, 2019

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: 12/6/2019

Title: Principal Structural Engineer Company Name: **EASE Co.**

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

☒ Testing in accordance with: ☒ ICC-ES AC156

☐ Other (Please Specify): _____

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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

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

Design Basis of Equipment or Components (F_p/W_p) = **See Attachment 1**

S_{DS} (Design spectral response acceleration at short period, g) = **2.00 (z/h = 1); 2.50 (z/h = 0)**

a_p (In-structure equipment or component amplification factor) = **See Attachment 1**

R_p (Equipment or component response modification factor) = **See Attachment 1**

Ω_0 (System overstrength factor) = **See Attachment 1**

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = **1 (S_{DS} = 2.00); 0 (S_{DS} = 2.50)**

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_{DS} (Design spectral response acceleration at short period, g) =

S_{D1} (Design spectral response acceleration at 1 second period, g) =

R (Response modification coefficient) =

Ω_0 (System overstrength factor) =

C_d (Deflection amplification factor) =

I_p (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

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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, 2025

Signature: _____ Date: May 26, 2020

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to: S_{DS} (g) = See Above z/h = See Above

Condition of Approval (if applicable):

TABLE 1:

SYSTEM MFR.	**AGFA Healthcare NV**
SYSTEM	**DR 800** 6010/200 [7]

COMPONENT	ID NUMBER [7] [8] [9] [10]	APPROX. DIMENSIONS [IN] W	D	H	MAX. WT. [LB]	MOUNT	BASIS [1]	F_P/W_P	S_{DS}	z/h	a_P	R_P	Ω_0
PATIENT TABLE													
Table Unit (GMM), including:	6010/050 [5]	94.49	64.45	116.34	1959 [2]	Rigid Base	1805-17	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
DR 800 TUBE (IAE)	RTC 1000 HS												
Collimator (Ralco)	R 302MLP/A												
DAP Monitor (VacuTec)	VacuDAP 2004												
DR 800 FLFS Overlay	6001/300												
DR 800 Dynamic Detector (Thales)	Pixium 4343FL												
X-RAY TUBE SUSPENSION													
DR 800 OCT MANUAL CEILING SUSPENSION (GMM), including:	6010/400	200.79	118.11	90.2	619	Ceiling	1805-8	3.60 1.50	2.0 2.5	1 0	2 ½	2 ½	2
DR 800 OTC LONGI. RAILS EXT. TO 510CM	6010/670												
DR 800 OCT SWAN NECK XRAY ASSEMBLY SUPRT	6010/620												
DR 800 OCT COLLIMATOR ROTATION	6010/740												
DR 800 OCT MAN. COLLIM. WITH LSR + FILT (RALCO)	R302/A												
DR 800 OCT MANUAL CEILING SUSPENSION (GMM), including:	6010/400	200.79 – 338.58	118.11 – 149.61 [4]	90.2 – 108.88	619 - 640	Ceiling	INT	3.60 1.50	2.0 2.5	1 0	2 ½	2 ½	2
DR 800 OTC LONGI. RAILS 510CM or 580CM or 720CM or 860CM	6010/670 6010/680 6010/690 6010/710												
DR 800 OCT SWAN NECK XRAY ASSEMBLY SUPPORT	6010/620 [11]												
DR 800 WS VERTICAL TRAVEL UP TO 180 CM	6010/660 [11]												
DR 800 OCT COLLIMATOR ROTATION	6010/740												
DR 800 OCT MAN. COLLIM. WITH LSR + FILT (RALCO)	R302/A												

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TABLE 1:

SYSTEM MFR.	**AGFA Healthcare NV**
SYSTEM	**DR 800** 6010/200 [7]

COMPONENT	ID NUMBER [7] [8] [9] [10]	APPROX. DIMENSIONS [IN]			MAX. WT. [LB]	MOUNT	BASIS [1]	F_P/W_P	S_{DS}	z/h	a_P	R_P	Ω_0
		W	D	H									
DR 800 OCT MANUAL CEILING SUSPENSION (GMM), including:	6010/400	338.58	149.61	109.88	640	Ceiling	1805-11	3.60 1.50	2.0 2.5	1 0	2 ½	2 ½	2
DR 800 OCT LONGI. RAILS EXT. TO 860CM	6010/710												
DR 800 WS VERTICAL TRAVEL UP TO 180 CM	6010/660												
DR 800 OCT COLLIMATOR ROTATION	6010/740												
DR 800 OCT MAN. COLLIM. WITH LSR + FILT (RALCO)	R302/A												
WALL STANDS													
DR 800 WS WALL STAND (GMM), including:	6010/700 [5]	23.43	12.2	87.56	297.68	Wall / Floor	1805-9	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
DR 14s C Detector Pixium Portable 3543EZ (THALES)	PIXIUM 3543 EZ-C	15.14	18.13	0.63	7								
DR 800 WS TILTING WALL STAND (GMM), including:	6010/800 [5]	25.8	33.7	90.7	419	Wall / Floor	1805-12	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
DR 800 WS Tilting WS Arm Support	6010/640												
DR 14s C Detector Pixium Portable 3543EZ (THALES)	PIXIUM 3543 EZ-C	15.14	18.13	0.63	7								
SYSTEM CONTROL													
NX-MW21 DR 800 High Performance PC (Dell)	(XE7MC) [6]	8.5	21	17	41.5	Rigid Base	1805-6	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
NX-MW21 DR 800 High Performance PC (Dell)	(XJK40) [6]	8.5	21	17	41.5	Rigid Base	SAME (1805-6)	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Z6 High Performance PC (HP)	(MAEA03) [6]	6.65	18.31	17.52	29.8	Rigid Base	1805-18	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
DICOM Widescreen Touch Monitor (BARCO)	MDRC-2222 [6]	20.24	2.64	12.4	14.33	Countertop	1805-7	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Positioner Console	6010/050 [5] (console)	19.7	11	5.9	12.5	Countertop	1805-14	1.44 1.13	2.0 2.5	1 0	1	2 ½	2

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TABLE 1:

SYSTEM MFR.	**AGFA Healthcare NV**
SYSTEM	**DR 800** 6010/200 [7]

COMPONENT	ID NUMBER [7] [8] [9] [10]	APPROX. DIMENSIONS [IN] W	D	H	MAX. WT. [LB]	MOUNT	BASIS [1]	F_P/W_P	S_{DS}	z/h	a_P	R_P	Ω_0
Positioning Cabinet	6010/050 [5] (cabinet)	23.62	13.39	77.25	387.5	Wall/Floor	1805-2	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
DR 800 Sync Cabinet, including	6010/300 [6]	20	19.5	13	117	Wall/Floor	1805-5	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
DR 800 Sync Cabinet Floor Mount Kit	6010/310												
DR-800 Sync Cabinet, including:	6010/300 [6]	20	19.5	13	117	Wall	1805-13	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
DR-800 Sync Cabinet Wall Mount Kit	6010/320												
POWER DISTRIBUTION													
Generator (80kW) (CPI), including:	INDICO [6] IQ RF 80kW VZW2558FD822	20	16.14	41.46	200.62	Wall/Floor	1805-4	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
DR 800 Generator Dual Tube Support	6010/410												
DR 800 Generator High Speed Starter	6010/420												
Generator (65kW) (CPI), including	INDICO [6] IQ RF 65kW VZW2558FD822	20	16.14	41.46	200.62	Wall/Floor	SAME (1805-4)	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
DR 800 Generator Dual Tube Support	6010/410												
DR 800 Generator High Speed Starter	6010/420												
Generator (50kW) (CPI), including:	INDICO [6] IQ RF 50kW VZW2558FD822	20	16.14	41.46	200.62	Wall/Floor	SAME (1805-4)	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
DR 800 Generator Dual Tube Support	6010/410												
DR 800 Generator High Speed Starter	6010/420												

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TABLE 1:

SYSTEM MFR.	**AGFA Healthcare NV**
SYSTEM	**DR 800** 6010/200 [7]

COMPONENT	ID NUMBER [7] [8] [9] [10]	APPROX. DIMENSIONS [IN] W	D	H	MAX. WT. [LB]	MOUNT	BASIS [1]	F_P/W_P	S_{DS}	z/h	a_P	R_P	Ω_0
MISC													
DR 800 UPS EATON 2200 (110V) (EATON)	9PX 2000RT [6]	3.41	17.32	23.82	62.5	Rigid Base	1805-3	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Dual Monitor Suspension (single column) (Mavig), including:		98.4	12.0	64	192	Ceiling	1805-10	3.60 1.50	2.0 2.5	1 0	2 ½	2 ½	2
Ceiling Track	TS1001												
Column with Carriage	TS2031												
Dual Monitor Support	GD4220												
Lead Screen Ceiling Suspension	OT80002												
Portegra 2 extension / Spring Arm	E-OT95 70120												
DICOM Widescreen Touch Monitor (x2) (BARCO)	MDRC-2222												
WLS COMP PACK US (Wireless Access Point) (ARUBA)	IAP-207	5	2.75	6	1	Wall	1805-15	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Keyboard (HP)	KB-1469 [6]	17.25	0.75	5.5	1.3	Countertop	1805-16	1.44 1.13	2.0 2.5	1 0	1	2 ½	2

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TABLE 1:

SYSTEM MFR.	**AGFA Healthcare NV**
SYSTEM	**DR 800** 6010/200 [7]

COMPONENT	ID NUMBER [7] [8] [9] [10]	APPROX. DIMENSIONS [IN]			MAX. WT. [LB]	MOUNT	BASIS [1]	F_P/W_P	S_{DS}	z/h	a_P	R_P	Ω_0
		W	D	H									
MOUNT	Rigid Base (Floor): free-standing, base-mounted tower configuration with the component rigidly attached to a supporting structure and no lateral support above the base. Wall/Floor: combined rigid base and rigid wall mount configuration; base of unit bears on and anchored to attached to a supporting structure with lateral support above the base at a wall. Ceiling: equipment is anchored to, and suspended from, a rigid framing system at or slightly above the ceiling line of the room. Countertop: equipment is base mount anchored to a built-in countertop or similar horizontal surface providing a fixed, rigid support.												
NOTES	1. BASIS: • UUT#: Indicates that a unit matching these characteristics was tested as part of this testing program. • INT (Interpolate/Extrapolate): indicates a model not specifically tested, and by which seismic certification is established through evaluation of testing of other, similar models in the product line • SAME: Model is physically, mechanically, and electrically the same as the test specimen, except possibly for model number, color, and/or software. 2. Patient table weight does not include the 467 lb. patient load present during testing. 3. All components are manufactured by AGFA Healthcare NV, unless otherwise noted. 4. X-Ray Tube Suspension dimension includes the length of longitudinal rails, which may vary. 5. Unit tested included modifications to the standard production unit which are necessary conditions for seismic certification. These modifications are collected in the system seismic kit: DR 800 Earthquake Kit P/N 90342, produced by GMM, which includes component-specific elements for the noted components. 6. Unit tested included modifications to the standard production unit which are necessary conditions for seismic certification. These modifications are collected in the system seismic kit: DR 800 Earthquake Kit P/N ((A621669)), produced by AGFA, which includes component-specific elements for the noted components. 7. #### / ### represents an AGFA “Type No.” 8. ##### represents the OEM’s identification number 9. (ABCDE) represents an AGFA “ABC Code” identification number 10. ((A######)) represents an AGFA “P/N” identification number 11. This component is configurable and can be included or not in the interpolated configuration.												

UUT-1805-2 DR 800 POSITIONING CABINET

Manufacturer:	GMM
Identification:	Type No.: 6010/050 S/N: 35378
Description:	Component of the AGFA DR 800 System: DR 800 X-ray remote table (cabinet) Mfr. ID: O-T90SHX/8 OPERA T90Sharp (cabinet) Included modifications that will be part of GMM Seismic Kit P/N 90342: Additional Cable ties and brackets to secure electrical boards.
Mounting:	Wall / Floor mounted using (4) – 3/8" dia. SAE J429 Grade 5 bolts to base and L 3 x 3 x 3/16" x 3" (A36) brackets w/ (3) #12 Tek screws w/ standard washers to backing plate and 1-1/2" DIA Bolt (A307) to Cabinet (2 PLACES)



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
23.62	13.39	77.25	387.5	10.07	21.14	>50

ICC-ES AC156 Shake Table Test Parameters **Code: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

UUT1805-3 UPS

Manufacturer:	EATON
Identification:	Model No.: 9PX 2000RT S/N: PA19J02D76
Description:	Component of the AGFA DR 800 System Type Nr.: 6010/910; ABC Code: XFDJZ; AGFA Part Nr.: A617578 (Not Labeled) Includes mounting hardware which is part of system seismic kit A621669
Mounting:	Rigid Base mounted using a strap assembly at front and rear. Each strap assembly consisting of: 1" wide nylon strap w/ metal cam buckle (50 lb tension / 200 lb WLL) looped through slots in vertical legs of (2) – L 2½ x 2" x ⅛" x 0'-2" LLV brackets positioned snug against unit. Each bracket attached w/ 3/8" diameter ASTM A574 Socket Head Cap Screws threaded into aluminum plate. (1 set ea. front & rear, 4 bolts total



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
3.41	17.32	23.82	62.5	9.66	>50	>50

ICC-ES AC156 Shake Table Test Parameters **Code: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0526 BY: Timothy J Piland DATE: 05/26/2020 CALIFORNIA BUILDING CODE 2019

UUT1805-4 DR 800 Generator (80kW)

Manufacturer:	CPI
Identification:	INDICO IQ RF 80kW VZW2558FD822 S/N: AMQ01015K18 w/ Dual Tube Support Type No.: 6010/410 w/ High Speed Starter Type No.: 6010/420
Description:	-Component of the AGFA DR 800 System -Generator (80kW) w/ -Dual Tube Support Type Nr.: 6010/410, ABC Code: XCT7H, P/N: A616675 (Not Labeled) -High Speed Starter Type Nr.: 6010/420, ABC Code: XCT8K, P/N: A616676 (Not Labeled) -Included mounting hardware as part of system seismic kit P/N: A621669
Mounting:	Wall / Floor mounted with hardware from system seismic kit P/N: A621669 w/ (3) 3/8" DIA Grade 5 Bolts into floor and (14) #12 Tek Screws into 16 GA Steel track backing plate



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
20	16.14	41.46	200.62	22.81	20.40	45.79

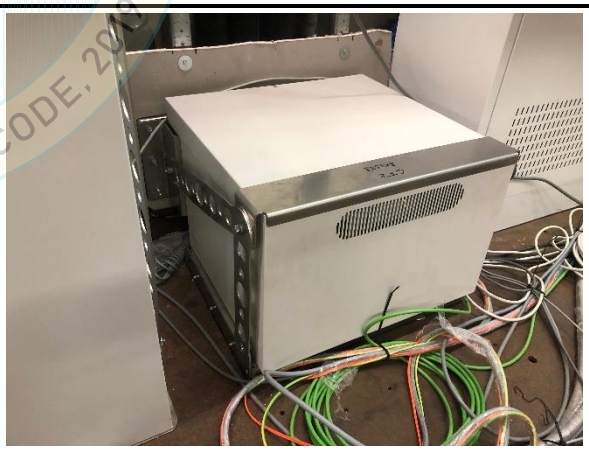
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 CBC**

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

UUT1805-5 DR 800 Sync Cabinet w/ Floor Mount Kit

Manufacturer:	AGFA Healthcare NV
Identification:	Type No.: 6010/300 S/N: 001018 w/ Floor Mount Kit Type No.: 6010/310
Description:	Component of the AGFA DR 800 System -Sync Cabinet ABC Code: XC6XE, P/N: A811562 (Not Labeled) -w/ Floor Mount Kit Type Nr.: 6010/310, ABC Code: XC6YG, AGFA Part Nr.: A616876 (Not Labeled) -Includes mounting hardware and additional locking mechanism on power cables from system seismic kit: A621669
Mounting:	Wall / Floor mounted with hardware from system seismic kit P/N: A621669 w/ (4) 3/8" DIA Allen head cap screws w/ washers into floor and (14) #12 Tek Screws into 16 GA Steel track backing plate



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
20	19.5	13	117	>50	40.47	29.83

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0526 BY: Timothy J Piland DATE: 05/26/2020 CALIFORNIA BUILDING CODE, 2019

UUT1805-6 High Performance PC

Manufacturer:	Dell
Identification:	ABC Code: XE7MC S/N: NX113-10014
Description:	Component of the AGFA DR 800 System NX-MW21 DR 800 High Performance PC Type Nr.: 4406/146, P/N: A622077 (Not Labeled) Includes mounting hardware which is part of system seismic kit A621669
Mounting:	Rigid Base mounted using a strap assembly at front and rear. Each strap assembly consisting of: 1" wide nylon strap w/ metal cam buckle (50 lb tension / 200 lb WLL) looped through slots in vertical legs of (2) – L2½ x 2" x ⅛" x 0'-2" LLV brackets positioned snug against unit. Each bracket attached w/ 3/8" diameter ASTM A574 Socket Head Cap Screws threaded into aluminum plate. (1 set ea. front & rear, 4 bolts total



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
8.5	21	17	41.5	28.18	41.19	>50

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0526 BY: Timothy J Piland DATE: 05/26/2020 CALIFORNIA BUILDING CODE 2019

UUT1805-7 DICOM Widescreen Touch Monitor

Manufacturer:	Barco
Identification:	Model: MDRC-2222 S/N: 721831151038
Description:	-Component of the AGFA DR 800 System -DICOM WIDESCREEN TOUCH MONITOR -Type Nr.: 4406/096; ABC Code: XFSOZ; AGFA Part Nr.: A620216 (Not Labeled) -Includes mounting hardware which is part of system seismic kit A621669
Mounting:	Countertop mounted with 3/8" DIA Grade 5 Hex Bolt through ¾" plywood and 3" x ¾" x ¼" steel nut bar and secured with hex head nylok nut



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
20.24	2.64	12.4	14.33	>50	9.59	9.79

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

UUT1805-8 DR 800 X-Ray Tube Ceiling Suspension 1

Manufacturer:	GMM
Identification:	Type No.: 6010/400 S/N: 3381
Description:	Component of the AGFA DR 800 System: Manual Ceiling Suspension Type No.: 6010/400 510cm Long. Rails Type No.: 6010/670 Swan Neck X-ray Assembly Support Type No.: 6010/620 Collimator Rotation Type No.: 6010/740 Manual Collimator (Ralco) Model: R 302/A
Mounting:	Ceiling Mounted using (2) – 1/2" dia. Grade 5 bolts w/ Unistrut P1010 channel nuts through AGFA Unistrut bracket to Unistrut P1001 support (Torque = 50 Nm). M10-8.8 hex bolt & T-Nuts to top of longitudinal rail (Torque = 15 Nm). Typical each intersect of (2) – longitudinal rail spaced approx. 67.3" out-to-out and (5) – Unistrut P1001 supports spaced 27.6" o.c. along longitudinal rails. Each Unistrut P1001 support spans perpendicular to longitudinal rail and is attached to HSS frame members spaced 41" max. o.c. w/ (2) – 1/2" dia. Grade 8 bolts & Unistrut P1010 channel nuts.



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Long. - Axis	Trans. - Axis	Vert. - Axis
200.79	118.11	90.2	619.61	N/A	N/A	N/A

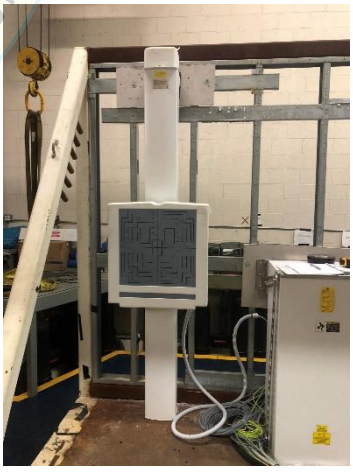
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 CBC**

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

UUT1805-9 DR 800 Wall Stand

Manufacturer:	GMM
Identification:	Type No.: 6010/700 S/N: 2248
Description:	-Component of the AGFA DR 800 System -Wall Stand GMM Model: TRN430; ABC Code: XCUAQ, Part Nr.: A616707 -MODIFIED: Added set screw to detector bucky latch (Will be integrated as standard production) -w/ Detector DR 14s C Pixium Portable 3543EZ Model: DNUR-SZ, P/N: 63124837, S/N; 1821E4 Type Nr.: 6008/003, ABC Code: 5ZSDE
Mounting:	Wall / Floor mounted with (2) ½" Grade 5 Bolts into floor and (2) M12 Class 8.8 bolts w/ washers in tapped holes in component and (6) ¼" dia Tek screws in 16 ga steel backing plate into wall.



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
23.43	12.2	87.56	297.68	7.81	10.25	9.76

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 CBC**

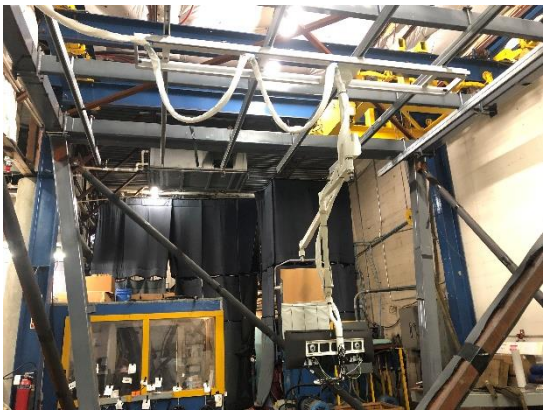
S_{DS} (G)	z/h	I_P	A_{FLX-H} (G)	A_{RIG-H} (G)	A_{FLX-V} (G)	A_{RIG-V} (G)
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68

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

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0526 BY: Timothy J Piland DATE: 05/26/2020 CALIFORNIA BUILDING CODE, 2019

UUT1805-10 Dual Monitor Suspension

Manufacturer:	Mavig / Barco S/N: NONE
Identification:	Ceiling Track Model: TS1001 Column with Carriage Model: TS2031 Dual Monitor Support Model: GD4220 Lead Screen Ceiling Suspension Model: OT80002 Portegra extension / Spring Arm Model: E-OT95 70120 DICOM Widescreen Touch Monitor (x2) Model: MDRC-2222
Description:	-Component of the AGFA DR 800 System -Dual monitor suspension with (2) DICOM Widescreen Monitors by Barco
Mounting:	Ceiling Mounted using (8) – 1/2" dia. Grade 5 bolts w/ Unistrut P1010 channel nuts through ceiling track to Unistrut P1001 support (Torque = 50 Nm). Unistrut spacing for ceiling track is 27.6" o.c. along ceiling track. Each Unistrut P1001 support spans perpendicular to longitudinal rail and is attached to HSS frame members spaced 41" max. o.c. w/ (2) – 1/2" dia. Grade 8 bolts & Unistrut P1010 channel nuts.



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Long. - Axis	Trans. - Axis	Vert. - Axis
98.4	12.0	64	192	N/A	N/A	N/A

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

UUT1805-11 DR 800 X-Ray Tube Ceiling Suspension 2

Manufacturer:	GMM
Identification:	Type No.: 6010/400 S/N: 3380
Description:	Component of the AGFA DR 800 System: Manual Ceiling Suspension Type No.: 6010/400 860cm Long. Rails Type No.: 6010/710 WS Vertical Travel Type No.: 6010/660 Collimator Rotation Type No.: 6010/740 Manual Collimator (Ralco) Model: R 302/A
Mounting:	Ceiling Mounted using (2) – 1/2" dia. Grade 5 bolts w/ Unistrut P1010 channel nuts through AGFA Unistrut bracket to Unistrut P1001 support (Torque = 50 Nm). M10-8.8 hex bolt & T-Nuts to top of longitudinal rail (Torque = 15 Nm). Typical each intersect of (2) – longitudinal rail spaced approx. 67.3" out-to-out and (5) – Unistrut P1001 supports spaced 27.6" o.c. along longitudinal rails. Each Unistrut P1001 support spans perpendicular to longitudinal rail and is attached to HSS frame members spaced 41" max. o.c. w/ (2) – 1/2" dia. Grade 8 bolts & Unistrut P1010 channel nuts.



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Long. - Axis	Trans. - Axis	Vert. - Axis
338.6	149.6	109.9	640.5	N/A	N/A	N/A

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 CBC**

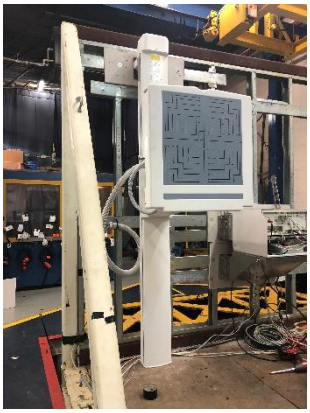
S_{DS} (G)	z/h	I_P	A_{FLX-H} (G)	A_{RIG-H} (G)	A_{FLX-V} (G)	A_{RIG-V} (G)
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68

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

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0526 BY:Timothy J Piland DATE:05/26/2020 CALIFORNIA BUILDING CODE, 2019

UUT1805-12 DR 800 Tilting Wall Stand

Manufacturer:	GMM
Identification:	Type No.: 6010/800 S/N: 2249
Description:	-Component of the AGFA DR 800 System -Wall Stand GMM Model: TRN432; ABC Code: XCT9M, Part Nr.: A616706 -MODIFIED: Added set screw to detector bucky latch (Will be integrated as standard production) -w/ Detector DR 14s C Pixium Portable 3543EZ Model: DNUR-SZ, P/N: 63124837, S/N; 1821E4 Type Nr.: 6008/003, ABC Code: 5ZSDE
Mounting:	Wall / Floor mounted with (2) ½" Grade 5 Bolts into floor and (2) M12 Class 8.8 bolts w/ washers in tapped holes in component and (6) ¼" dia Tek screws in 16 ga steel backing plate into wall.



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
25.8	33.7	90.7	419	4.57	7.65	8.33

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0526 BY:Timothy J Piland DATE: 05/26/2020 CALIFORNIA BUILDING CODE 2019

UUT1805-13 DR 800 Sync Cabinet w/ Wall Mount Kit

Manufacturer:	AGFA Healthcare NV
Identification:	Type No.: 6010/300 S/N: 001017 w/ Wall Mount Kit Type No.: 6010/320
Description:	Component of the AGFA DR 800 System -Sync Cabinet ABC Code: XC6XE, P/N: A811562 -w/ Wall Mount Kit Type Nr.: 6010/320, ABC Code: XC6ZJ, AGFA Part Nr.: A616877 -Includes mounting hardware and additional locking mechanism on power cables from system seismic kit: A621669
Mounting:	Wall mounted with hardware from system seismic kit P/N: A621669 w/ (26) #12 Tek Screws into 16 GA Steel track backing plate



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
20	19.5	13	117	N/A	N/A	N/A

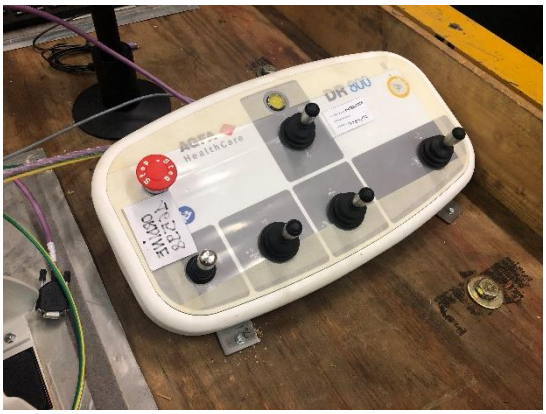
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 CBC**

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

UUT1805-14 DR 800 Positioner Console

Manufacturer:	GMM
Identification:	Type No.: 6010/050 (console) S/N: 35378
Description:	Component of the AGFA DR 800 System Main Control Console Also labeled: Type Nr.: 6010 / 200, S/N: 01049 Mfr. ID: O-T90SHX/8 OPERA T90Sharp (console) Includes mounting hardware that will be part of GMM Seismic Kit P/N 90342
Mounting:	Countertop mounted with (4) ¼" hex head wood screws into plywood



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
19.7	11	5.9	12.5	47.06	>50	>50

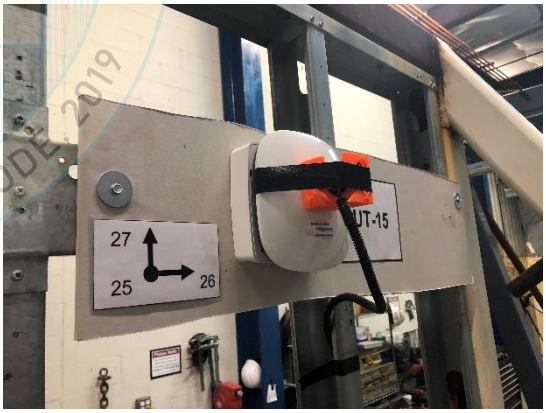
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 CBC**

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

UUT1805-15 Wireless Access Point

Manufacturer:	Aruba
Identification:	Model: IAP-207 S/N: CNFCJST10M
Description:	Component of the AGFA DR 800 System Wireless Access Point Type Nr.: 5430/098, ABC Code: XET1M, P/N: A617874 (Not Labeled) External Mounting Kit (AP_200_MNT_W2) "AP Mount Kit Secure AP-200"
Mounting:	Wall mounted with External Mounting Kit (AP_200_MNT_W2) "AP Mount Kit Secure AP-200" and (4) #12 Tek screws into 16 ga steel backing



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Front - Axis	Side - Axis	Vert - Axis
5	2.75	6	1	N/A	N/A	N/A

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0526 BY: Timothy J Piland DATE: 05/26/2020 CALIFORNIA BUILDING CODE, 2019

UUT1805-16 Keyboard

Manufacturer:	HP
Identification:	Model No.: KB-1469 S/N: None
Description:	-Component of the AGFA DR 800 System -HP Keyboard attached with Velcro to a plywood base (countertop) -Includes mounting hardware from system seismic kit: A621669
Mounting:	Countertop mounted with 2 strips of hook and loop 1" x 7 ½" Velcro brand "Industrial Strength" Hook and Loop tape,



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
17.25	0.75	5.5	1.3	>50	>50	>50

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

UUT1805-17 DR 800 Table Unit

Manufacturer:	GMM
Identification:	Type No.: 6010/050 S/N: 36477
Description:	-Component of the AGFA DR 800 System - The table unit is manufactured for AGFA by General Medical Merate S.P.A (GMM) and is a modified version of GMM's OPERA Swing device (Opera T90 Sharp Table Unit). -w/ DR 800 FLAT TABLETOP LONGI. SYMM. MOVEMENT Type No.: 6010/860, ABC Code: XFDDP, P/N: A617573 -w/ DR 800 CARBON FIBER TABLETOP Type No.: 6010/470, ABC Code: XCTQJ, P/N: A616671 -w/ DR 800 TUBE RTC1000 0.6/1.2 – 40/100-HS Type No.: 6010/108, ABC Code: XGUTS, P/N: A620531 -w/ Collimator Mfr.: Ralco, Model: R 302 MLP/A, S/N: 1812583 -w/ Dose Area Product monitor Mfr.: VacuTec, Model: VacuDAP 2004 OEM, S/N: 18 06715 -w/ DR 800 RAYSENSE AUTO-SWITCH Type No.: 6010/520, ABC Code: XCTUR, P/N: A616688 -w/ DR 800 FLFS Overlay Type No.: 6001/300, ABC Code: XCT6F, P/N: A617295 -w/ DR 800 DYNAMIC DETECTOR Mfr.: Thales, P/N: Pixium 4343FL **Test unit includes structural enhancements to address anomalies observed in previous testing which are now incorporated as part of standard manufactured product. Additionally, includes required Seismic hardware enhancements which are part of system seismic kit GMM P/N 90342**
Mounting:	Rigid base mounted with (9) ½" Grade 8 Bolts with Standard Washers into aluminum plate.



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-Axis	Vert-Axis
94.49	64.45	116.34	1959	3.57	2.58	2.71

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0526 BY: Timothy J Piland DATE: 05/26/2020 CALIFORNIA BUILDING CODE 2019

UUT1805-18 Z6 High Performance PC

Manufacturer:	HP
Identification:	ABC Code: MAEA03 S/N: CZC9017XFQ
Description:	Component of the AGFA DR 800 System HP Z6 High Performance PC Type No.: 4406/978, P/N: A623635 (Not Labeled) Also labeled "HP Z6 EVALUATE UNIT" w/ Mounting Hardware as part of system seismic kit AGFA P/N A621669
Mounting:	Rigid Base mounted using a strap assembly at front and rear. Each strap assembly consisting of: 1" wide nylon strap w/ metal cam buckle (50 lb tension / 200 lb WLL) looped through slots in vertical legs of (2) – L2½ x 2" x ⅛" x 0'-2" LLV brackets positioned snug against unit. Each bracket attached w/ 3/8" diameter ASTM A574 Socket Head Cap Screws threaded into aluminum plate. (1 set ea. front & rear, 4 bolts total



Dimensions (in.)				Lowest Resonant Frequency (Hz.)		
Width	Depth	Height	Weight (lb.)	Side-Axis	Front-Axis	Vert-Axis
6.65	18.31	17.52	29.8	29.94	>50	>50

ICC-ES AC156 SHAKE TABLE TEST PARAMETERS **CODE: 2016 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 AC156 requirements for structural integrity and manufacturer requirements for functionality after AC156 test.

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0526 BY:Timothy J Piland DATE:05/26/2020 CALIFORNIA BUILDING CODE, 2019