APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY	
APPLICATION #:	OSP – 0527

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: **Agfa NV**

Manufacturer's Technical Representative: Stefan Stallmeister

Mailing Address: Tegernseer Landstraße 161, 81539 München, Germany

Telephone: On File Email: On File

Product Information

Product Name: **AGFA DR 600**

Product Type: Direct Radiography (DR) System

Product Model Number: Special Seismic Certification is limited to components listed in Attachment 1, Table 1.
(List all unique product identification numbers and/or part numbers)

General Description: Multiple component, fully automatic Direct Radiography (DR) System (Digital). Seismic enhancements incorporated into the test units and modifications required to address anomalies observed during testing shall be incorporated into the certified units. ***Special Seismic Certification is limited to manual positioning of X-Ray tube.***

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: 12/18/2019

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

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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: M. Aliaari Date: May 14, 2020

Print Name: Mohammad Aliaari Title: SSE

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

Condition of Approval (if applicable): ***Special Seismic Certification is limited to manual positioning of X-Ray tube.***

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1:

System Manufacturer	**Agfa NV**
System	**AGFA DR600** (5530-100)

Component	Identification No. [7] [8] [9]	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 TABLES													
DR 600 ELEVATED TABLE (AGFA) INCL	5521 / 500 [6]	86.6	31.8	23.2 – 37	784 [2]	Rigid Base	1801-1	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
CASS BUCKY TABLE ACSS INCL DET CHARGE (AGFA)	5523 / 125 [5]												
DR 600 REAR FOOT PEDALS FOR TABLE (AGFA)	5421S												
DR 14S C DETECTOR 3543 (THALES)	Pixium 3543EZ												
GRID 132 L/INCH 10:1 FFD 1M (JPI Healthcare Co. Ltd.)	5523 / 605 [5]												
AEC (VacuTec)	5523 / 800												
X-RAY TUBE SUSPENSIONS													
DR 600 FULLY AUTOMATIC (Pausch)	5530 / 110 [6]	98.4	157.5 [4]	38.3 –103.6	793	Ceiling	1801-2	3.60 1.50	2.0 2.5	1 0	2 ½	2 ½	2
DR 600 BRIDGE 2.5M (Pausch)	((A612582))												
DR 600 LONGITUDINAL RAILS 4M (Pausch)	((A612577))												
AUTOMATIC COLLIMATOR INC FILTERS INC DAP (Ralco)	R 225 ACS DHHS												
TUBE E7869XX 600 KHU HS (Toshiba)	E7869XX												

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TABLE 1:

System Manufacturer	**Agfa NV**
System	**AGFA DR600** (5530-100)

Component	Identification No. [7] [8] [9]	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
DR 600 FULLY AUTOMATIC (Pausch)	5530 / 110 [6]	98.4 – 157.5	137.8-236.2 [4]	38.3 –103.6	793 – 813	Ceiling	INT	3.60 1.50	2.0 2.5	1 0	2 ½	2 ½	2
DR 600 BRIDGE 2.5M OR 3M OR 3.5M OR 4M (Pausch)	((A612582)) ((A612581)) ((A612580)) ((A612579))												
DR 600 LONGITUDINAL RAILS 3.5M OR 4M OR 4.5M OR 5M OR 5.5M OR 6M (Pausch)	((A612578)) ((A612577)) ((A612576)) ((A613700)) ((A612575)) ((A612574))												
AUTOMATIC COLLIMATOR INC FILTERS INC DAP (Ralco)	R 225 ACS DHHS												
TUBE E7869XX 600 KHU HS (Toshiba)	E7869XX												
DR600 LOWER CEILING SYSTEM (Pausch)	5530 / 130 [6]	98.4 – 157.5	137.8-236.2 [4]	34.4 – 90.7	793 – 813	Ceiling	INT	3.60 1.50	2.0 2.5	1 0	2 ½	2 ½	2
DR 600 BRIDGE 2.5M OR 3M OR 3.5M OR 4M (Pausch)	((A612582)) ((A612581)) ((A612580)) ((A612579))												
DR 600 LONGITUDINAL RAILS 3.5M OR 4M OR 4.5M OR 5M OR 5.5M OR 6M (Pausch)	((A612578)) ((A612577)) ((A612576)) ((A613700)) ((A612575)) ((A612574))												
AUTOMATIC COLLIMATOR INC FILTERS INC DAP (Ralco)	R 225 ACS DHHS												
TUBE E7869XX 600 KHU HS (Toshiba)	E7869XX												

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TABLE 1:

System Manufacturer	**Agfa NV**
System	**AGFA DR600** (5530-100)

Component	Identification No. [7] [8] [9]	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
DR600 LOWER CEILING SYSTEM (Pausch)	5530 / 130 [6]	157.5	157.5 [4]	34.4 – 90.7	813	Ceiling	1801-3	3.60 1.50	2.0 2.5	1 0	2 ½	2 ½	2
DR 600 BRIDGE 4M (Pausch)	((A612579))												
DR 600 LONGITUDINAL RAILS 4M (Pausch)	((A612577))												
AUTOMATIC COLLIMATOR INC FILTERS INC DAP (Ralco)	R 225 ACS DHHS												
TUBE E7869XX 600 KHU HS (Toshiba)	E7869XX												
WALL STANDS													
DR 600 MOTORIZED TILTING BUCKY ON WALLST (AGFA)	5522 / 600 (5423W) [6]	28.1	38.3 [10]	88.4	573	Wall / Floor	1801-4	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
SPACER FOR WALLSTAND (AGFA)	(51GC8)												
AEC (VacuTec)	5523 / 800												
FIXED DET. PIXIUM BUCKY WS LEFT L. GRID (AGFA)	5523 / 310												
PIXIUM 4343 DETECTOR C (Thales)	Pixium 4343												
Grid 132 l / inch 10:1 FFD 1.8M (JPI Healthcare Co. Ltd.)	5523 / 625 [5]												
Set of Handgrips for WS (AGFA)	09600720												
Lateral arm rest for WS (AGFA)	09600710												
DR 600 MOTORIZED TILTING BUCKY ON WALLST (AGFA)	5522 / 600 (5423W) [6]	28.1	24.5 [10]	88.4	515	Wall/Floor	1801-5	2.40 1.13	2.0 2.5	1 0	1	1 ½	1 ½
AEC (VacuTec)	5523 / 800												
FIXED DET. PIXIUM BUCKY WS LEFT L. GRID (AGFA)	5523 / 310												
PIXIUM 4343 DETECTOR C (Thales)	Pixium 4343												
Grid 132 l / inch 10:1 FFD 1.8M (JPI Healthcare Co. Ltd.)	5523 / 625 [5]												
Set of Handgrips for WS (AGFA)	09600720												

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TABLE 1:

System Manufacturer	**Agfa NV**
System	**AGFA DR600** (5530-100)

Component	Identification No. [7] [8] [9]	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
SYSTEM CONTROL													
NX9000 HP RP5810 RAID1 PC (Hewlett Packard)	(XBSZP 001)	15	13.3	4	17	Rigid Base	1801-6	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
HP Engage High Performance PC (HP)	(MAEOV) [11]	13.3	15.0	3.94	14.2	Rigid Base	1904-1	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
DICOM Widescreen Touch Monitor (EIZO) including	RadiForce MS235WT	21.9	8	21.5	20	Rigid Base	1801-7	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
LS413S Monitor Mount with Heavy Duty Thru-Desk Mount. (Ergomart)	LS413S												
DICOM Widescreen Touch Monitor (BARCO)	MDRC-2222	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
LS413S Monitor Mount with Heavy Duty Thru-Desk Mount. (Ergomart)	LS413S												
POWER DISTRIBUTION													
Editor HFe 801 (80kW) Generator (Spellman)	81480108 [6]	21.65	25.8	61.3	393	Wall/Floor	1801-8 1801-12	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Storage Compartment (AGFA) including	A806884												
DR GENERATOR SYNC BOX V3 (AGFA)	(51S8E)												
Editor HFe 801 (65kW) Generator (Spellman)	81480106 [6]	21.65	25.8	61.3	393	Wall/Floor	SAME	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Storage Compartment (AGFA)	A806884												
DR GENERATOR SYNC BOX V3 (AGFA)	(51S8E)												
Editor HFe 801 (50kW) Generator (Spellman)	81480105 [6]	21.65	25.8	61.3	393	Wall/Floor	SAME	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Storage Compartment (AGFA)	A806884												
DR GENERATOR SYNC BOX V3 (AGFA)	(51S8E)												

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TABLE 1:

System Manufacturer	**Agfa NV**
System	**AGFA DR600** (5530-100)

Component	Identification No. [7] [8] [9]	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													
UPS 5SC750 120V 750VA (EATON)	5SC750	5.9	13	8.2	24	Rigid Base	1801-9	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Keyboard (HP)	KB-1156	18.5	6.5	1	1	Rigid Base	1801-10	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Keyboard (HP)	KB-1469 [11]	18.1	5.9	1.2	1.28	Countertop	1904-2	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
Cisco Wireless Access Point	AIR-SAP1602E-B-K9	8.7	8.7	1.84	3	Wall	1801-11	1.44 1.13	2.0 2.5	1 0	1	2 ½	2
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

Mount

RIGID BASE (FLOOR) MOUNT: free-standing, base-mounted configuration with the component rigidly attached to a supporting structure and no lateral support above the base.
WALL: component fully supported by a building wall structure
WALL/FLOOR MOUNT component bears on and anchored directly 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.
CEILING (SUSPENDED): unit is anchored to and suspended from a 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 test specimen 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 & electrically the same as test specimen. Difference is limited to model number, color, and/or software.
2. Patient table weight does not include 565 simulated patient weight present in test.
3. All components are manufactured by AGFA Healthcare N.V., unless otherwise noted.
4. X-Ray Tube Suspension dimension includes the length of longitudinal rails, which may vary.
5. Identification # of tested model. Tested unit included modifications to standard production unit. Future production which include these modifications will be assigned a new identification No. and will be included in the AGFA DR600 EARTHQUAKE KIT (A620068).
6. Unit included modifications to standard production unit. These modifications are collected in AGFA manufactured DR600 EARTHQUAKE KIT (AGFA P/N A620068) and are necessary conditions for seismic certification.
7. (#####) represents an AGFA “ABC Code” identification number.
8. ((#####)) represents an AGFA “P/N” identification number.
9. ##### represents an AGFA “Type No.” or the OEM’s identification number.
10. Wall stand dimension excludes wall bracket and base plate.
11. Requires the use of mounting hardware from AGFA earthquake kit P/N A620068

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UUT1801-1 DR 600 Elevated Table

MANUFACTURER:	Pausch & AGFA Healthcare N.V.
IDENTIFICATION:	Model No.: 5521 / 500 (542ZQ – Not on label) Serial No.: 0250
DESCRIPTION:	DR 600 ELEVATED TABLE 5521 / 500 Cass Bucky Table ACSS Incl Detector Charger 5523 / 125 DR 600 Rear Foot Pedals for Table (AGFA) 5421S DR 14S C Detector 3543 (THALES) Pixium 3543EZ – Portable, wireless digital flatpanel detector X-RAY Anti-scatter Grid 132 L/INCH 10:1 FFD 1M (JPI Healthcare Co. Ltd.) 5523 / 605 AEC (VacuTec) 5523 / 800
MOUNTING:	Rigid Base (Floor) mounted using (4) – 5/8" dia GR 8 bolts thru AGFA supplied plate washers to table frame (2) – ½" dia GR 8 bolts at foot pedal power supply This hardware is included in AGFA seismic kit A620068. *30" Tested Height



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Longit. (X)-Axis	Transv. (Y)-Axis	Vert. (Z)-Axis
86.6	31.8	23.2 – 37*	784	37.87	6.49	8.25

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.

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UUT1801-2 DR 600 X-Ray Tube Suspension w/ 2.5m Bridge

Manufacturer	Pausch & AGFA Healthcare N.V.
Identification:	Model No.: See description below Serial No.: 00202
Description:	Normal Ceiling Height version DR 600 Fully Automatic (FA) 5530/110 DR 600 Bridge 2.5M (Pausch) ((A612582)) DR 600 Longitudinal Rails 4M (Pausch) ((A612577)) Automatic Collimator Inc Filters & Dap (Ralco) R 225 ACS DHHS Tube E7869XX 600 KHU HS (Toshiba) E7869XX
Mount:	Ceiling Mounted using (2) – 3/8" dia. socket head caps screws w/ Unistrut P1008 channel nuts through AGFA Mounting Block to Unistrut P1001 support (Torque = 50 Nm). AGFA Mounting Block: 2¼" W x 4 ¾" L x 1" H Aluminum Block w/ (3) – M6-10.9 Socket Head Cap Screws & T-Nuts to top of longitudinal rail (Torque = 15 Nm). Typical each intersect of (2) – longitudinal rail spaced approx. 82" out-to-out and (4) – Unistrut P1001 supports spaced 26" o.c. along longitudinal rails. Each Unistrut P1001 support spans perpendicular to longitudinal rail and is attached to HSS frame members spaced 40" max. o.c. w/ (2) – 1/2" dia. Grade 8 bolts & Unistrut P1010 channel nuts. *72" Tested Height



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Transv. (X)-Axis	Longit. (Y)-Axis	Vert. (Z)-Axis
98.4	157.5	38.3 –103.6*	793	22.95	3.69	3.96

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.

UUT1801-3 DR 600 X-Ray Tube Suspension w/ 4m Bridge

Manufacturer	Pausch & AGFA Healthcare N.V.
Identification:	Model No.: 5530 / 130 Serial No.: 00104
Description:	Low Ceiling Height version DR 600 Lower Ceiling System (Pausch) 5530/130 DR 600 Bridge 4M (Pausch) ((A612579)) DR 600 Longitudinal Rails 4M (Pausch) ((A612577)) Automatic Collimator Inc Filters Inc DAP (Ralco) R 225 ACS DHHS Tube E7869XX 600 KHU HS (Toshiba) E7869XX
Mount:	Ceiling Mounted using (2) – 3/8" dia. socket head caps screws w/ Unistrut P1008 channel nuts through AGFA Mounting Block to Unistrut P1001 support (Torque = 50 Nm). AGFA Mounting Block: 2¼" W x 4 ¾" L x 1" H Aluminum Block w/ (3) – M6-10.9 Socket Head Cap Screws & T-Nuts to top of longitudinal rail (Torque = 15 Nm). Typical each intersect of (2) – longitudinal rail spaced approx. 82" out-to-out and (4) – Unistrut P1001 supports spaced 26" o.c. along longitudinal rails. Each Unistrut P1001 support spans perpendicular to longitudinal rail and is attached to HSS frame members spaced 40" max. o.c. w/ (2) – 1/2" dia. Grade 8 bolts & Unistrut P1010 channel nuts. *56" Tested Height



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Longit. (X)- Axis	Transv. (Y) - Axis	Vert. (Z) - Axis
157.5	157.5	34.4 – 90.7*	813	3.72	4.85	4.35

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.

UUT1801-4 DR 600 Motorized Tilting Bucky on Wall Stand (with Spacer)

Manufacturer	Pausch & AGFA Healthcare N.V.
Identification:	Model No.: 5522 / 600 (5423W)
Description:	DR 600 Motorized Tilting Bucky On Wallst (AGFA) 5522 / 600 Spacer for Wallstand (AGFA) (51GC8) AEC (VacuTec) 5523 / 800 Fixed Det. Pixium Bucky WS Left L. Grid (AGFA) 5523 / 310 Pixium 4343 Detector C (Thales) Pixium 4343 – Fixed plate (non-removable) digital detector Grid 132 l / inch 10:1 FFD 1.8M (JPI Healthcare) 5523 / 625 Set of Handgrips for WS (AGFA) 09600720 Lateral arm rest for WS (AGFA) 09600710
Mount:	Wall/Floor Mounted using: Base: (3) – 5/8" dia. SAE J429 GR 8 bolts. Wall: (6)-1/4" dia. Tek screws through 4" x 3/8" x 0'-9" steel plate (ASTM A36) to 400T150-54 steel track wall backing. AGFA wall bracket (3mm steel) centered on and secured to plate w/ (2) – M8 SHCS in holes tapped in 3/8" plate. Slotted bracket secured by adding (2) – ¼" dia. bolt w/ washers and nut in ¼" dia. holes.





DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Front (X) - Axis	Side (Y) - Axis	Vert (Z) - Axis
28.1	38.3	88.4	573	10.05	3.99	3.57

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-0527 BY: Mohammad Aliaari DATE: 05/14/2020 CALIFORNIA BUILDING CODE

UUT1801-5 DR 600 Motorized Tilting Bucky on Wall Stand (without Spacer)

Manufacturer	Pausch & AGFA Healthcare N.V.
Identification:	See Below
Description:	DR 600 Motorized Tilting Bucky On Wallst (AGFA) 5522 / 600 (5423W) AEC (VacuTec) 5523 / 800 Fixed Det. Pixium Bucky Ws Left L. Grid (AGFA) 5523 / 310 Pixium 4343 Detector C (Thales) Pixium 4343 – Fixed plate (non-removable) digital detector Grid 132 l/inch 10:1 FFD 1.8M 5523 / 625 (JPI Healthcare Co. Ltd.) Grid Modified for test. Set of Handgrips for WS (AGFA) 09600720
Mount:	Wall/Floor Mounted using: Base: (3) – 5/8" dia. SAE J429 GR 8 bolts. Wall: (6)-1/4" dia. Tek screws through 4" x 3/8" x 0'-9" steel plate (ASTM A36) to 400T150-54 steel track wall backing. AGFA wall bracket (3mm steel) centered on and secured to plate with (2) – M8 SHCS in holes tapped in 3/8" plate. Slotted bracket secured by adding (2) – ¼" dia. bolts w/ washers and nuts in ¼" dia. holes.



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side (X)-Axis	Front (Y)-Axis	Vert (Z)-Axis
28.1	32.5	88.4	515	6.31	10.59	3.66

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.

UUT1801-6 NX9000 HP RP5810 RAID1 PC

MANUFACTURER:	Hewlett Packard Inc.
IDENTIFICATION:	ABC Code: (XBSZP 001) Product No. V6J96EC#ABB Serial No.: NX222-11123
DESCRIPTION:	Workstation HP RP5 Retail System, Model 5810
MOUNTING:	Rigid Base (Floor) 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 (X)-Axis	Front (Y)-Axis	Vert (Z)-Axis
15	13.3	4	17	>50	>50	>50

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

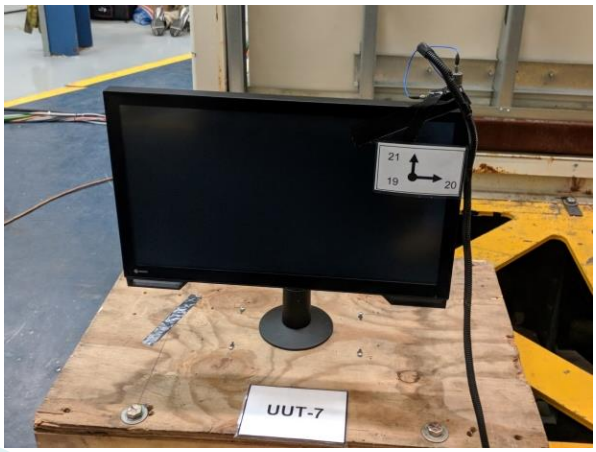
S_{DS} (G)	z/h	I_P	A_{FLX-H} (G)	A_{RIG-H} (G)	A_{FLX-V} (G)	A_{RIG-V} (G)
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68

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

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0527 BY: Mohammad Aliaari DATE: 05/14/2020 CALIFORNIA BUILDING CODE, 2019

UUT1801-7 DICOM Widescreen Touch Monitor (EIZO)

MANUFACTURER:	EIZO Corporation
IDENTIFICATION:	Model No.: RadiForce MS235WT Serial No.: 37992037
DESCRIPTION:	23" Class Touch Panel Color LCD Monitor P/N: OFTD1868 ERGOMART LS4135 Monitor Mount w/ Heavy Duty Thru-Desk Mount
MOUNTING:	Rigid Base Mounted using (1) – 3/8" dia. SAE J429 Gr.1 Hex bolt through ¾" plywood w/ 3" x 3/4" x 1/4" steel nut bar & hex head nylock nut.



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Front (X)-Axis	Side (Y)-Axis	Vert (Z)-Axis
21.9	8	21.5	20	10.05	6.66	10.21

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.

UUT1801-8 Editor HFe 801 (80kW) Generator + Storage Cabinet

MANUFACTURER:	Spellman	Agfa Healthcare N.V.
IDENTIFICATION:	Model No.: 5526 / 250 (543BG)	A806884
	Serial No.: 34997 (Spellman label)	097
	Generator	**Storage Compartment**
DESCRIPTION:	Storage cabinet stacked above Editor 80kW generator cabinet AGFA Seismic bracing kit (part of Seismic Kit A620068) Spellman "Editor HFe801" SN: 34997 DR GENERATOR SYNC BOX V3 (AGFA 51S8E) mounted in upper Storage Compartment.	
MOUNTING:	WALL/FLOOR Mounted using: (4) – ½" Diameter SAE J429 Grade 8 bolts to floor structure (6) – #14 Tek screws to 400T150-54 steel track wall backing. 1.25" O.D. fender washers provided at Tek Screws at (4) – M12 hole locations. Cable Pull Box for Generator secured to wall with (6) – #12 Tek screws and 1.25" O.D. fender washers to 400T150-54 steel track wall backing.	



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Front (X)-Axis	Side (Y)-Axis	Vert (Z)-Axis
21.65	25.8	60.25 w/ Kit	111 + 281.5 = 393	13.06	12.20	15.67

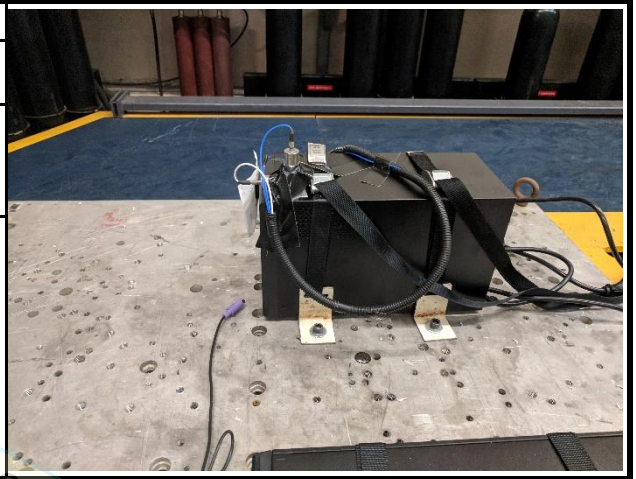
ICC-ES AC156 SHAKE TABLE TEST PARAMETERS						CODE: 2016 CBC
S_{DS} (G)	z/h	I_P	A_{FLX-H} (G)	A_{RIG-H} (G)	A_{FLX-V} (G)	A_{RIG-V} (G)
2.0 2.5	1 0	1.5	3.2	2.4	1.68	0.68

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

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0527 BY: Mohammad Khalaf DATE: 05/14/2020 2019 CBC BUILDING CODE

UUT1801-9 UPS 120V 750VA

MANUFACTURER:	EATON
IDENTIFICATION:	Model No.: 5SC750 Serial No.: G136H21001
DESCRIPTION:	120V 750VA Model: 5SC750 P/N: 9210-3134-00P Serial No.: G136H21001
MOUNTING:	Rigid Base (Floor) 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 (X) - Axis	Front (Y) - Axis	Vert (Z) - Axis
5.9	13	8.2	24	>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.

UUT1801-10 Keyboard

MANUFACTURER:	HP
IDENTIFICATION:	Model No.: KB-1156 P/N: 672646-L33
DESCRIPTION:	Keyboard for Workstation
MOUNTING:	Rigid Base (Floor) Mounted using (2) – rows of 1" x 7 ½" Velcro Brand Industrial Strength hook & loop tape.



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side (X) - Axis	Front (Y) - Axis	Vert (Z) - Axis
18.5	6.5	1	1	>50	>50	38.32

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-0527 BY: Mohammad Aljaari DATE: 05/14/2020 CALIFORNIA BUILDING CODE

UUT1801-11 CISCO Wireless Access Point

MANUFACTURER:	CISCO
IDENTIFICATION:	Model No.: AIR-SAP1602E-B-K9 Serial No.: FJC2103M16H
DESCRIPTION:	CISCO Aironet 1600 Series 802.11n Dual Band Access Point Model: AIR-SAP1602E-B-K9 S/N: FJC2103M16H
MOUNTING:	Wall Mounted using (3) - #12 TEK Screws through Cisco wall mount bracket to 400T150-54 steel track backing plate & 400S137-54 steel stud.



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Front (X) - Axis	Side (Y) - Axis	Vert (Z) - Axis
8.7	8.7	1.84	3 (w/ bracket)	9.89	12.08	30.59

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.

UUT1801-12 Editor HFe 801 (80 kW) Generator + Storage Cabinet

MANUFACTURER:	Spellman	Agfa Healthcare N.V.	
IDENTIFICATION:	Model No.: 5526 / 250 (543BG)	A806884	
	Serial No.: 34902 (Spellman label)	0195	
	Generator	**Storage Cabinet**	
DESCRIPTION:	Storage cabinet stacked above Editor 80kW generator cabinet AGFA Seismic bracing kit (part of Seismic Kit A620068) Spellman “Editor HFe801” SN: 34997 DR GENERATOR SYNC BOX V3 (AGFA 51S8E) mounted upper cabinet.		
MOUNTING:	WALL/FLOOR Mounted using: (4) – ½” Diameter SAE J429 Grade 8 bolts to floor structure (6) – #14 Tek screws to 400T150-54 steel track wall backing. 1.25” O.D. fender washers provided at Tek Screws at (4) – M12 hole locations. Cable Pull Box for Generator secured to wall with (6) – #12 Tek screws and 1.25” O.D. fender washers to 400T150-54 steel track wall backing.		



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side (X)-Axis	Front (Y)-Axis	Vert (Z)-Axis
21.65	25.8	61.3	393	11.57	10.41	18.83

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-0527 By: Mohammad Aliaari DATE: 05/14/2020 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)
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.

UUT1805-15 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	20.01	10.25	10.43

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-0527 BY: Mohammad Aliaari DATE: 05/14/2020 CALIFORNIA BUILDING CODE 2019

UUT1904-1 HP Engage High Performance PC

MANUFACTURER:	HP
IDENTIFICATION:	ABC Code: (MAEOV) Serial No.: CZC929DNNN
DESCRIPTION:	Workstation HP Engage Flex Pro HP Product Number: 6TJ63EC#ABB AGFA P/N: A623596
MOUNTING:	Rigid Base (Floor) 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 Mounting hardware part of AGFA earthquake kit P/N A620068



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side (X)-Axis	Front (Y)-Axis	Vert (Z)-Axis
15	13.3	4	14.2	>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.

UUT1904-2 Keyboard

MANUFACTURER:	HP
IDENTIFICATION:	Model No.: KB-1469
DESCRIPTION:	Keyboard for Workstation
MOUNTING:	Countertop mounted using (2) – rows of 1" x 7 ½" Velcro Brand Industrial Strength hook & loop tape. Mounting hardware part of AGFA earthquake kit P/N A620068



DIMENSIONS (in.)				LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	Height	Weight (lb.)	Side (X) - Axis	Front (Y) - Axis	Vert (Z) - Axis
18.1	5.9	1.2	1.28	>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

REVIEWED FOR CODE COMPLIANCE OSHPD OSP-0527 BY: Mohammad Aliaari DATE: 05/14/2020 CALIFORNIA BUILDING CODE 2019