



APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

For Office Use Only

<p>APPLICATION NO.</p> <p>OSP – 0311 – 10</p>

Check whether application is: NEW RENEWAL

1.0 PHILIPS HEALTHCARE Cara Rau
Manufacturer *Manufacturer's Technical Representative*
 4 Technology Drive, Irvine, CA 92618
Mailing Address
 (888) 233-0531 cara.rau@philips.com
Telephone *E-mail Address*

2.0 JUNO DRF SYSTEM RADIOGRAPHY & FLUOROSCOPY SYSTEM
Product Name *Product Type*
JUNO DRF (See Attachment 1 for certified components of system)
Product model No (List all unique product identification numbers and/or serial numbers)
General Description: A multi-component radiography & fluoroscopy system used for medical imaging. Seismic enhancement made to the test units and modifications required to address anomalies observed during the tests shall be incorporated into the production units. OSP approval is limited to units identical to tested units. Use of the Juno DRF Patient Table is limited to a 330 lb. maximum patient load, based upon a tested patient load of 300 lb.
 Mounting Description: SEE ATTACHMENT 1

3.0 EASE Co. JONATHAN ROBERSON, S.E.
Applicant Company Name *Contact Person*
 5877 Pine Ave, Suite 210, Chino Hills, CA. 91709
Mailing Address
 (406) 541-EASE (3273) j.roberson@easeco.com
Telephone *E-mail Address*

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013.

[Signature] December 21, 2012
Signature of Applicant *Date*
Principal Engineer EASE Co.
Title *Company Name*



California Licensed Structural Engineer Review and Acceptance of the Test Report(s)

4.0 **EASE Co.**
Company Name

Jonathan Roberson, S.E. S4197
Contact Name *California License Number*

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709
Mailing Address

909-606-7622 j.roberson@easeco.com
Telephone *E-mail Address*

Supports and Attachments Pre-Approval

5.0

Supports and attachments are pre-approved under OPM-
 (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and
 attachments is required)

Supports and attachments are not Pre-approved

Certification Method

6.0 Testing in accordance with: ICC-ES AC-156 Other (Please Specify):

Analysis

Experience data

Combination of Testing, Analysis, and/or Experience Data (Please Specify):

Testing Laboratory (if applicable)

7.0 Environmental Testing Laboratory, Inc. Brady Richard
Company Name *Contact Name*

11034 Indian Trail, Dallas, TX 75229-3513
Mailing Address

972-247-9657 brady@etldallas.com
Telephone *E-mail:*



Approval Parameters

8.0

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

Design Basis of Equipment or Components (F_p/W_p) = $3.6g * (a_p / R_p)$, but need not exceed 4.8g

S_{DS} (Spectral response acceleration at short period) = 2.0

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) = N/A

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment or Component Natural Frequencies = 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} (Spectral response acceleration at short period) =

S_1 (Spectral response acceleration at 1 second period) =

R (Response modification coefficient) = 1.0

Ω_0 (System overstrength factor) = 1.0

C_d (Deflection amplification factor) = 1.0

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, 2010: Yes No

9.0 List of attachments supporting the special seismic certification of equipment or components:

- Test Report Drawings Manufacturer's Catalog
- Calculations Others (Please Specify): Attachments 1 & 2

10.0 OSHPD Approval (For Office Use Only)


 Signature & Date
Timothy J. Piland, SSE
 Name & Title

March 7, 2013

December 31, 2019

Approval Expiration Date

S_{DS} (g) = **2.0** z/h = **1.0**
 Special Seismic Certification Valid Up to

Condition of Approval (if any): **OSP approval is limited to units identical to tested units. Use of the Juno DRF Patient Table is limited to a 330 lb. maximum patient load, based upon a tested patient load of 300 lb.**

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

DISTRIBUTOR	Philips Medical Systems DMC GmbH								
MANUFACTURER	Villa Sistemi Medicali								
SYSTEM	Juno DRF								
COMPONENT	PART NO.	DIMENSIONS (IN.)			MAX. WT. (LB.)	MOUNTING	A _p	R _p	BASIS
		W	D	H					
Juno DRF Table	9784729832 ⁽³⁾	95.29	80.33	81.62 to 140.60	2802 ⁽²⁾	Rigid Base	1.0	1.5	UUT-1
Juno DRF Cabinet (Electronic Cabinet)	9784729832 ⁽³⁾	21.65	20.5	76.90	420	Rigid Base	2.5	6.0	UUT-2
Juno-I Imaging System	4695451300	20.47	26.25	34.65	328	Rigid Base	2.5	6.0	UUT-4
Juno-G X-Ray Generator (80kW, 2 tubes)	4695315264	18.01	16.08	48.53	260	Rigid Base	2.5	6.0	UUT-5
LEM Plus Ceiling Suspension	9782001200	118.11	173.23	99.05	850	Ceiling Suspended	2.5	2.5	UUT-6
• with X-Ray Tube	4695003800								
Monitor Suspension Fixed with One Monitor	8716004200	118.11	22.83	92.91	187	Ceiling Suspended	2.5	2.5	UUT-7
Monitor Suspension Track with Two Monitors	8716004300	118.11	22.83	92.91	210	Ceiling Suspended	2.5	2.5	UUT-8
Chest Stand VD 3 (Wall Stand)	9778311110	24.61	34.29	84.33	303	Wall/Floor	1.0	1.5	UUT-9
Nearby Control Trolley with Image Acquisition System Workstation	8716004400	29.53	32.52	61.81	85	Freestanding	N/A	N/A	UUT-10
Membrane Control Console w/ foot pedal	8384841000	17.80	13.98	3.46	13	Countertop	N/A	N/A	UUT-11
Touch Screen Console	8384841100	14	14	3.5	12	Countertop-A	1.0	2.5	UUT-3
Generator Control Console	8384842000	17.80	13.98	3.46	13	Countertop	N/A	N/A	UUT-12
Insulation Transformer	4695454700	11.42	10.24	9.65	37	Countertop or Freestanding	N/A	N/A	UUT-13
APC 1000VA UPS	4695454500	11.57	4.92	2.17	34	Countertop or Freestanding	N/A	N/A	UUT-14
MOUNTING	<p><i>Floor (Rigid Base):</i> free-standing, base-mounted condition with the component rigidly attached to a supporting structure and no lateral support above the base.</p> <p><i>Freestanding</i> refers to a condition where the unit bears on the supporting floor but is otherwise unattached to a supporting structure and has no lateral support.</p> <p><i>Wall/Floor Mounted</i> refers to a condition where the unit bears on, and is 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.</p> <p><i>Ceiling Suspended</i> refers to a condition where the unit is anchored to and suspended from a framing system at or slightly above the ceiling line of the room.</p> <p><i>Countertop</i> refers to a condition where the unit sits atop but is not otherwise anchored to a counter, desk, or other piece of fixed furniture.</p> <p><i>Countertop-A</i> refers to a condition where the unit is anchored to a countertop, desk, or other piece of fixed furniture anchored against movement.</p>								
NOTES	<ol style="list-style-type: none"> UUT-#: Indicates that a test specimen matching these characteristics was tested. Tabulated weight of the Juno DRF Table does not include 300 lb. simulated patient load included in testing of the table in the horizontal position. The part number identifies a unit which includes enhancements to construction that are necessary conditions of special seismic certification 								

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

UUT-1 Juno DRF Table Horizontal Position

MANUFACTURER: Villa Medical Systems
 MODEL: Juno DRF
 IDENTIFICATION: Main Label REF: 9784729831 SN: 12071029
 Others Tube No.: 72M044 Type: RTC 700 HS
 Housing No.: X051L Type: C100 XT
 FUNCTION: Radiography & Fluoroscopy (R/F) imaging
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 Flat Panel Detector (p/n 4695433600)
 X-Ray Tube (p/n 7184434300)
 Unit included structural enhancements corresponding to new part number 9784729832
 MOUNTING: Rigid Base Mounted using (8)-1/2" cap screws from manufacturer's base plate to interface fixture.
 UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		X-Axis	Y-Axis	Z-Axis
95.29	80.33	81.62	2802 + 300 lb Patient Load	3.6	1.9	3.2



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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UUT-2 Juno DRF Cabinet (Electronic Cabinet)

MANUFACTURER: Villa Medical Systems
 MODEL: Juno DRF
 IDENTIFICATION: REF: 9784729831 SN: 12071029
 FUNCTION: Radiography & Fluoroscopy (R/F) imaging
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 Unit included structural enhancements corresponding to new part number 9784729832
 MOUNTING: Rigid Base Mounted using (4) – 3/8" Cap screws w/ washers through L3" x 3" x 1/4" x 0' 3" angles to interface plate.
 UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		X-Axis	Y-Axis	Z-Axis
21.625	20.5	76.50	418	10.9	8.8	>50



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

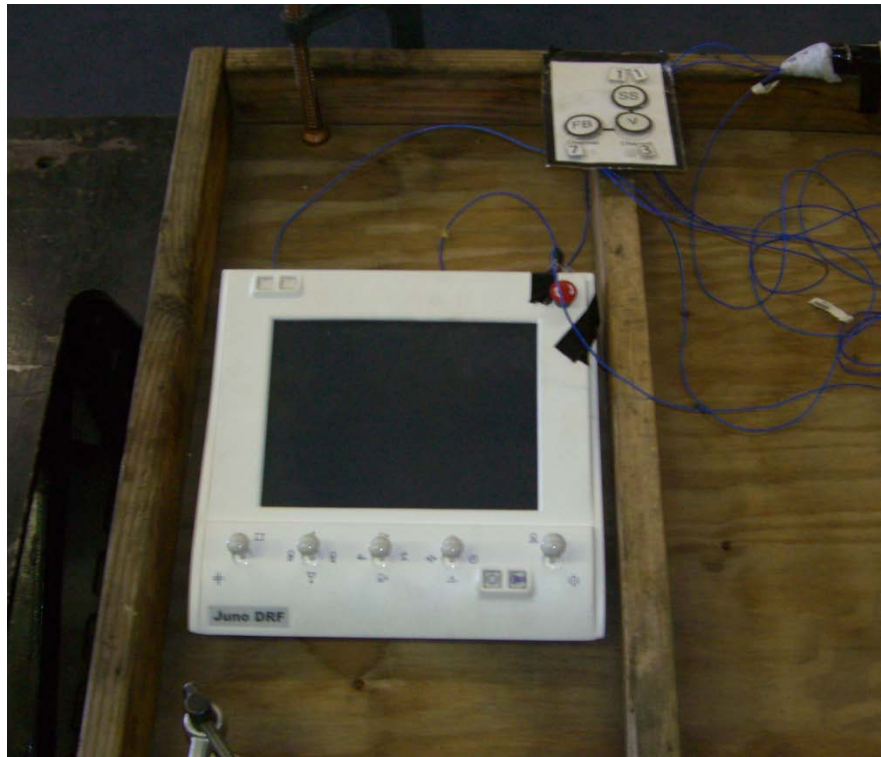
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UUT-3 Juno DRF Touch Screen Console

MANUFACTURER: Villa Medical Systems
 MODEL: Juno DRF Touch Screen Console
 IDENTIFICATION: N/A
 FUNCTION: Radiography & Fluoroscopy (R/F) imaging
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 MOUNTING: Rigid Base Mounted using (4) – M5 screws w/ Fender washers up through ½” plywood to threaded holes in base of console.

UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		X-Axis	Y-Axis	Z-Axis
14	14	3.5	12	30.2	46.1	29.0



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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UUT-6 Ceiling Suspension with X-Ray Tube
 MANUFACTURER: Villa Sistemi Medicali
 MODEL: LEM Plus Ceiling Suspension with X-ray tube
 IDENTIFICATION: Ceiling suspension X-Ray Tube
 p/n 9782001200 p/n 4695003800
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 RESTRICTIONS: N/A
 MOUNTING: Ceiling Suspended
 UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		Y-Axis	X-Axis	Z-Axis
118.11	173.23	99.05	850	2.671	7.023	5.175



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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UUT-7 Monitor Suspension Fixed with One Monitor

MANUFACTURER: Villa Sistemi Medicali
 MODEL: Monitor Suspension Fixed with One Monitor
 IDENTIFICATION: No Label
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 MOUNTING: Ceiling Suspended
 UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		Y-Axis	X-Axis	Z-Axis
118.11	22.83	92.91	187	6.9	34.47	8.31

MONITOR SUSPENSION:
ONE MONITOR



MONITOR SUSPENSION:
TWO MONITORS

UUT-8 Monitor Suspension Track with Two Monitors

MANUFACTURER: Villa Sistemi Medicali
 MODEL: Monitor Suspension Track with Two Monitors
 IDENTIFICATION: No Label
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 MOUNTING: Ceiling Suspended
 UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		Y-Axis	X-Axis	Z-Axis
118.11	22.83	92.91	210	5.403	23.31	5.206

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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UUT-9 Chest Stand VD 3

MANUFACTURER: Villa Sistemi Medicali
 MODEL: Chest Stand VD 3
 IDENTIFICATION: REF: 9778311110 SN: 11042539
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 MOUNTING: Wall/Floor Mounted
 UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		Y-Axis	X-Axis	Z-Axis
24.61	34.29	84.33	303	7.092	6.9	14.18



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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UUT-10 Nearby Control Trolley with Workstation

MANUFACTURER: Villa Sistemi Medicali
 MODEL: No Label
 IDENTIFICATION: No Label
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 Juno DRF Imaging Workstation:
 • Juno DRF Membrane Console
 • LCD Monitor
 • Keyboard
 • Mouse
 MOUNTING: Freestanding
 UUT PROPERTIES:

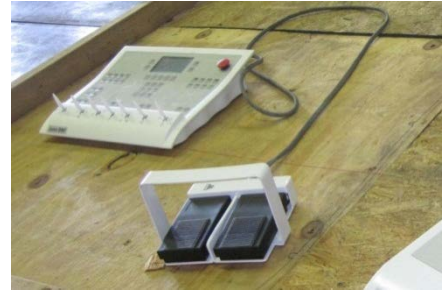
DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		Y-Axis	X-Axis	Z-Axis
29.53	32.52	61.81	71	N/A	N/A	N/A



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

UUT-11 Control Console w/ Foot Pedal

MANUFACTURER: Villa Sistemi Medicali
 MODEL: Juno DRF Membrane Console
 IDENTIFICATION: No Label
 FUNCTION: Part of the Console control and interface system
 Input devices used by operator.
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 MOUNTING: Countertop
 UUT PROPERTIES:



DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		Y-Axis	X-Axis	Z-Axis
17.80	13.98	3.46	13	N/A	N/A	N/A

UUT-12 Generator Control

MANUFACTURER: Villa Sistemi Medicali
 MODEL: Part No.: 90304410
 IDENTIFICATION: Serial No. J1800117C11
 FUNCTION: Part of the Console control and interface system
 Input devices used by operator.
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 MOUNTING: Countertop
 UUT PROPERTIES:



DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		Y-Axis	X-Axis	Z-Axis
17.80	13.98	3.46	13	N/A	N/A	N/A

UUT-13 Transformer

MANUFACTURER: ELCA SRL
 MODEL: 1kVA Single Phase Insulation Transformer
 IDENTIFICATION: COD: TMUL21020975
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 RESTRICTIONS: N/A
 MOUNTING: Countertop
 UUT PROPERTIES:



DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		Y-Axis	X-Axis	Z-Axis
11.42	10.24	9.65	37	N/A	N/A	N/A

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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UUT-14 1000VA UPS

MANUFACTURER: APC
 MODEL: Smart UPS 1000
 IDENTIFICATION: Label 1: 1st S/N: SUA1000 Label 2: S/N: NLDT1038
 2nd S/N: AS0937124681
 DESCRIPTION: Sub-component of the Juno DRF medical imaging system.
 RESTRICTIONS: N/A
 MOUNTING: Countertop



UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		Y-Axis	X-Axis	Z-Axis
11.57	4.92	2.17	34	N/A	N/A	N/A