



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

**APPLICATION FOR HCAI SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0732

**HCAI Special Seismic Certification Preapproval (OSP)**

Type:  New  Renewal

**Manufacturer Information**

Manufacturer: Philips Healthcare

Manufacturer's Technical Representative: Xiujian He

Mailing Address: Veenpluis 6, 5684 PC Best, Netherlands

Telephone: +86 189 3086 8977

Email: xiujian.he@philips.com

**Product Information**

Product Name: Spectral CT

Product Model Number(s): Spectral CT, Spectral CT 7500 RT, Spectral CT Verida, Spectral CT Verida RT

Product Category: CT Systems

Product Sub-Category: CT Systems

General Description: Multiple component system for the provision of Computed Tomography medical diagnostic imaging. Special Seismic Certification is limited to components of the systems identified in Attachment 1 for functions related to Computed Tomography (CT) diagnostic imaging services.

Mounting Description: Several - See Certified Product Tables

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

**Applicant Information**

Applicant Company Name: Pre Compliance

Contact Person: Galen Reid

Mailing Address: 324 NW Hill St., Bend, OR 97703

Telephone: (541) 241-2310

Email: galen@go-pre.com

Title: Principal & Program Manager



**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
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**California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)**

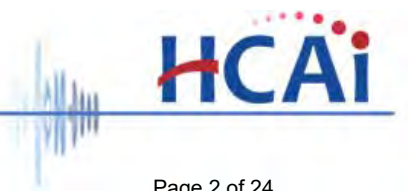
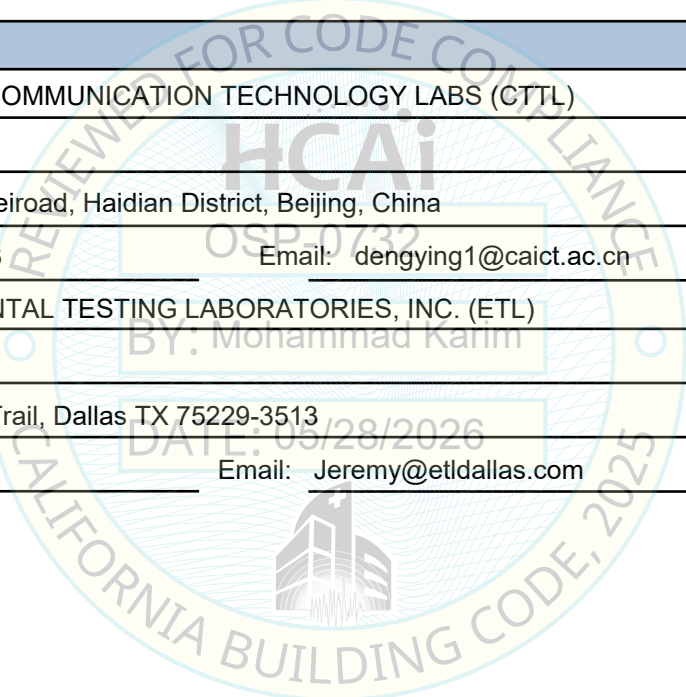
Company Name: PRE COMPLIANCE  
 Name: Andrew Coughlin California License Number: S6082  
 Mailing Address: 324 NW Hill St, Bend, OR 97703  
 Telephone: (415) 635-8461 Email: Andy@go-pre.com

**Certification Method**

GR-63-Core       ICC-ES AC156       IEEE 344       IEEE 693       NEBS 3  
 Other (Please Specify): \_\_\_\_\_

**Testing Laboratory**

Company Name: CHINA TELECOMMUNICATION TECHNOLOGY LABS (CTTL)  
 Contact Person: Ying Deng  
 Mailing Address: 52 Huayuan Beiroad, Haidian District, Beijing, China  
 Telephone: +86 138 1090 9918 Email: dengying1@caict.ac.cn  
 Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)  
 Contact Person: Jeremy Lange  
 Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513  
 Telephone: (972) 247-9657 Email: Jeremy@etldallas.com





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
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**Seismic Parameters**

Certified Response Spectral Acceleration Factors:(F<sub>p</sub>/W<sub>p</sub>)

Horizontal (A Flx-H), g= 3.20 (A Rig-H), g= 2.15

Vertical (A Flx-V), g= 1.67 (A Rig-V), g= 0.67

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

H<sub>f</sub> (Force amplification height factor) = 1 @ z/h = 0; 3.5 @ z/h = 1

R<sub>u</sub> (Structure ductility reduction factor) = 1 @ z/h = 0; 1.3 @ z/h = 1

I<sub>p</sub> (Importance factor) = 1.5

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

**HCAI Approval (For Office Use Only) - Approval Expires on 05/28/2032**

Date: 5/28/2026

Name: Mohammad Karim

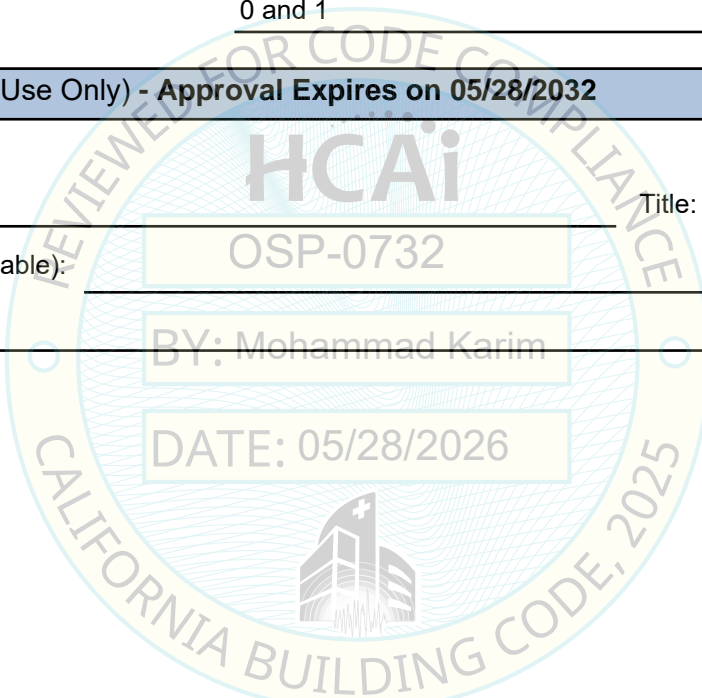
Title: Supervisor, Health Facilities

Condition of Approval (if applicable):

OSP-0732

BY: Mohammad Karim

DATE: 05/28/2026





# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC261870-01-R0

<b>Manufacturer:</b> Philips Healthcare (Suzhou) Co., Ltd.	<b>Seismic Parameters</b>	<b>Building Codes</b>
<b>Product Type:</b> CT Systems	$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$	<b>CBC 2025</b>
<b>Model Line:</b> Spectral CT, Spectral CT 7500 RT, Spectral CT Verida, Spectral CT Verida RT	$S_{DS} = 2.50g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$ $I_p=1.5$	

## TABLE 1

Mounting Configuration: Base Mounted - Rigid

### Construction Summary

**PDU/Host:** Carbon Steel enclosure; **Gantry:** Metal frame with plastic enclosure; **Couch:** Metal frame with plastic enclosure, carbon fiber tabletop

### Options Summary

Requires Manufacturer Supplied Seismic Kit

Component	Description	Part Number	Max. Dimensions (in)			Wt. (lb)	UUT
			D	W	H		
Gantries	Spectral Gantry	459801665271	39.9	95.5	80	5134	6
	Spectral Gantry	300016336541 <sup>1</sup>	39.9	95.5	80	5134	Interp.
Patient Tables	Patient Couch	459801658612	120.5-215.8	20.3	18.7-45.4	1413 <sup>2</sup>	7
	Patient Couch	300013383131	120.5-215.7	20.3	16.9-42.5	1468 <sup>3</sup>	13
Power Distribution	PDU with Integrated DC-DC Converter	459801051621	32.2	27.7	66.4	1264	4
Consoles	Spectral Gen 5.3 Host w/ Host Rack, including:	459801902082	35.6	12.8	29.8	189	9
	CT Gen 5.3 Host, Z4	459801898441					
	Spectral Gen 5.3 Host w/ Host Rack, including:	300012777511	35.6	12.8	29.8	189	Interp.
	CT Gen 5.3 Host, Z4	300012777581					
	Spectral Host w/ Host Rack, including:	300013049671	35.5	12.8	29.8	190	14
	CT Spectral_F Host Z4 G5	300013049821					

<sup>1</sup>Model is identical to tested other than the gloss of finish.  
<sup>2</sup>Weight does not include 542 lbs. of simulated patient weight.  
<sup>3</sup>Weight does not include 540 lbs. of simulated patient weight.



# SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Pre No. CC261870-01-R0

<b>Manufacturer:</b>	Philips Healthcare (Suzhou) Co., Ltd.	<b>Seismic Parameters</b>	<b>Building Codes</b>
<b>Product Type:</b>	CT Systems	$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$	<b>CBC 2025</b>
<b>Model Line:</b>	Spectral CT, Spectral CT 7500 RT, Spectral CT Verida, Spectral CT Verida RT	$S_{DS} = 2.50g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$ $I_p=1.5$	

## TABLE 2

Mounting Configuration: Base-Mounted Rigid and Wall-Mounted Rigid at Top

### Construction Summary

### Options Summary

**CIRS:** Carbon Steel enclosure

Requires Manufacturer Supplied Seismic Kit

Component	Description	Part Number	Max. Dimensions (in)			Wt. (lb)	UUT
			D	W	H		
Consoles	Spectral CIRS HW 4 Computers w/Rack + UPS, including:	300008719801	43	23.6	79.8	805	8
	CT Gen 5.3 CIRS Master Z8 w/ACQ	459801592022					
	CT Gen 5.3 CIRS Compute Z8 (Quantity: 3)	459801592013					
	Staco UniStar VP 6kVA UPS w/SNMP	459800913091					
	Staco UniStar UPS Extended Run Battery	459800844121					
	Spectral CIRS HW 4 Computers w/Rack + UPS, including:	300008719802	43	23.6	79.8	805	Interp.
	CT Gen5.3 CIRS Master Z8 w/ACQ	459801592023					
	CT Gen5.3 CIRS Compute Z8 (Quantity: 3)	459801592014					
	Staco UniStar VP 6kVA UPS w/SNMP	459800913091					
	Staco UniStar UPS Extended Run Battery	459800844121					
	Spectral 4 CIRS computers w/Rack+UPS, including:	300013049501	42.9	23.6	78.4	807	15
	CT Spectral Master CIRS PC w/ACQ	300013049801					
	CT Spectral CIRS Slave G5 PC (Quantity: 3)	300012778131					
	Staco UniStar VP 6kVA UPS w/SNMP	459800913091					
	Staco UniStar UPS Extended Run Battery	459800844121					

<b>Manufacturer:</b>	Philips Healthcare (Suzhou) Co., Ltd.	<b>Seismic Parameters</b>	<b>Building Codes</b>
<b>Product Type:</b>	CT Systems	$S_{DS} = 2.00g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$ $S_{DS} = 2.50g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	$I_p=1.5$ <b>CBC 2025</b>
<b>Model Line:</b>	Spectral CT, Spectral CT 7500 RT, Spectral CT Verida, Spectral CT Verida RT		

<b>TABLE 2</b>	<b>Mounting Configuration:</b>	<b>Base-Mounted Rigid and Wall-Mounted Rigid at Top</b>
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<b>Construction Summary</b>	<b>Options Summary</b>
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**CIRS:** Carbon Steel enclosure

Requires Manufacturer Supplied Seismic Kit

Component	Description	Part Number	Max. Dimensions (in)			Wt. (lb)	UUT					
			D	W	H							
Consoles	Spectral CIRS HW 2 Computers w/Rack + UPS, including:	300008718821	43	23.6	79.8	701	Interp.					
	CT Gen5.3 CIRS Master Z8 w/ACQ	459801592022										
	CT Gen5.3 CIRS Compute Z8	459801592013										
	Staco UniStar VP 6kVA UPS w/SNMP	459800913091										
	Staco UniStar UPS Extended Run Battery	459800844121										
	Spectral CIRS HW 2 Computers w/Rack + UPS, including:	300008718822										
	CT Gen5.3 CIRS Master Z8 w/ACQ	459801592023										
	CT Gen5.3 CIRS Compute Z8	459801592014										
	Staco UniStar VP 6kVA UPS w/SNMP	459800913091										
	Staco UniStar UPS Extended Run Battery	459800844121										
	Spectral CIRS HW 2 computers w/Rack+UPS, including:	300013049701						42.9	23.6	78	701	Interp.
	CT Spectral Master CIRS PC w/ACQ	300013049801										
CT Spectral CIRS Slave G5 PC (Quantity: 1)	300012778131											
Staco UniStar VP 6kVA UPS w/SNMP	459800913091											
Staco UniStar UPS Extended Run Battery	459800844121											





UUT	Model	Test Report	Test Date	Test Laboratory	S <sub>DS</sub>	z/h	R <sub>μ</sub>	H <sub>f</sub>	I <sub>p</sub>
1	Compressor (Jun Air)	SQ13-1503-01 (UUTA5)	6/16/2015	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
2	Cabinet Compressor (Jun Air)	SQ13-1503-01 (UUTA6)	6/16/2015	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
3	CT Box	SQ131505-1 (UUT5)	4/26/2016	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
4	PDU w/integrated DC-DC Converter	SQ10-1605-1 (UUT1)	2/1/2017	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
5	Iqon Gen 5.3 CIRS TL Rack/UPS/ACQ	SQ13-1805-01 (UUT1)	4/24/2019	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
6	Gantry	SQ13-2102-01 (UUT1)	10/18/2021	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
7	Patient Couch	SQ13-2102-01 (UUT2)	10/18/2021	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
8	Spectral CIRS HW 4 Computers w/Rack + UPS	SQ13-2102-01 (UUT3)	10/18/2021	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
9	Spectral Gen 5.3 Host w/ Host Rack	SQ13-2102-01 (UUT4)	10/18/2021	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
10	Cabinet Compressor (Jun Air)	17412 Rev 2 (UUT1)	5/3/2024	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
11	Compressor (Atlas Copco)	17412 Rev 2 (UUT2)	5/3/2024	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
12	Air Buffer Assembly	17412 Rev 2 (UUT3)	5/3/2024	ETL	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
13	Noah RT-2 Patient Couch	26T04X800112-001 (UUT1)	1/26/2026	CAICT	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
14	Spectral Host w/Host Rack	26T04X800112-001 (UUT2)	1/26/2026	CAICT	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5
15	Spectral 4 CIRS computers w/Rack + UPS	26T04X800112-001 (UUT3)	1/26/2026	CAICT	2.0 2.5	1 0	1.3 1.0	3.5 1.0	1.5





## UUT 3

Test Report# SQ131505-1  
(UUT5)

Manufacturer: Philips Healthcare  
 Model Line: Spectral CT Series  
 Description: CT Box  
 Model Number: 459800842441  
 Serial Number: 004

Highest Passed Test Level								
S <sub>DS</sub>	z/h	R <sub>μ</sub>	H <sub>f</sub>	I <sub>p</sub>	A <sub>flx-h</sub>	A <sub>rig-h</sub>	A <sub>flx-v</sub>	A <sub>rig-v</sub>
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
4	15.8	2.5	4

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
>33.3	>33.3	>33.3

**Building Codes**  
CBC 2025

**Test Criteria**  
ICC-ES AC156 (2024)

**Construction/Option Summary**

**UUT Mounting Details:**

**List of Included Subcomponents**

Description (Manufacturer)	Model #
OSP-0732	
Seismic Kit	459801147561
BY: Mohammad Karim	



DATE: 05/28/2026

UUT was rigid base mounted to countertop using (2) 1" x 3" 3M Dual Lock reclosable fastener at each of two tapered feet (applied to bottom of foot and test plate). Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

















## UUT 12

Test Report# 17412 Rev 2  
(UUT3)

**Manufacturer:** Automation Yeruham  
**Model Line:** Spectral CT Series  
**Description:** Air Buffer Assembly  
**Model Number:** 459801790583  
**Serial Number:** N/A

Highest Passed Test Level								
$S_{DS}$	$z/h$	$R_{\mu}$	$H_f$	$I_p$	$A_{flx-h}$	$A_{rig-h}$	$A_{flx-v}$	$A_{rig-v}$
2.00	1.0	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.50	0.0	1.0	1.0					

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
17.8	27.6	19.8	68

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
13.1	11.9	12.4

Building Codes	Test Criteria	Construction/Option Summary
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CBC 2025

ICC-ES AC156 (2024) ...

Carbon steel cabinet

UUT Mounting Details:	List of Included Subcomponents
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OSP-0732

Description  
(Manufacturer)

Model #

Air Buffer Siesmic Kit  
(Air Buffer)

300009849731

DATE: 05/28/2026

UUT was rigid base mounted using (4) 3/8" SAE J429 Grade 5 bolts.  
 Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.





