



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-0881

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Philips Healthcare (Suzhou) Co., Ltd.

Manufacturer's Technical Representative: Mingyuan Zhao

Mailing Address: 258, Zhongyuan Road, Suzhou Industrial Park, Suzhou, Jiangsu Province 215024

Telephone: +86 188-4245-4096 Email: mingyuan.zhao@philips.com

Product Information

Product Name: Rembra RT/Rembra/Areta RT

Product Model Number(s): Varies. See Attachment

Product Category: CT Systems

Product Sub-Category: CT Systems

General Description: Multiple component systems for the provision of Computed Tomography (CT) medical diagnostic imaging.

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

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
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT**

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: 299 Tengfei Road, Lianchi District, Baoding City Hebei Province 000000

Telephone: (8603) 126-7989

Email: dengying1@caict.ac.cn

BY: Mohammad Karim

DATE: 12/11/2025



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

Seismic Parameters

Certified Response Spectral Acceleration Factors: (F_p/W_p)

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) = 2.50 @ $z/h = 0$; 2.00 @ $z/h = 1$

H_f (Force amplification height factor) = 1 @ $z/h = 0$; 3.5 @ $z/h = 1$

R_u (Structure ductility reduction factor) = 1 @ $z/h = 0$; 1.3 @ $z/h = 1$

I_p (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 12/11/2031

Date: 12/11/2025

Name: Mohammad Karim

Title: Supervisor, Health Facilities

Condition of Approval (if applicable): _____

OSP-0881

BY: Mohammad Karim

DATE: 12/11/2025





SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENTS

Mounting Configuration: Base Mounted - Rigid

Page 4 of 11



SPECIAL SEISMIC CERTIFICATION TESTING SUMMARY

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 1

Test Report# 25T04X801478-001

Manufacturer: Philips Healthcare (Suzhou)
Co., Ltd.

Model Line: Rembra RT/Rembra/Areta RT

Model Number: CTGANPGA110

Description: CT System Gantry

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.0	1	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.5	0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
44.3	92.1	76.6	5214

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
7.6	9.2	30.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel with plastic shell

UUT Mounting Details:



UUT was rigid base mounted with (8) M16 bolts, grade 8.8. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description (Manufacturer)	Model Number	Material
N/A		

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 2

Test Report# 25T04X801478-001

Manufacturer: Philips Healthcare (Suzhou)
Co., Ltd.

Model Line: Rembra RT/Rembra/Areta RT

Model Number: CTCOUPGA200

Description: CT System Couch

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.0	1	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.5	0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.) ¹
27.6	173.2	37.0	1318.5

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
14.1	3.1	4.9

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel with plastic shell.

¹Weight listed includes 414.5 lb. simulated patient load

UUT Mounting Details:

OSP-0881



UUT was rigid base mounted with (4) M16 bolts, grade 8.8. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description (Manufacturer)	Model Number	Material
N/A		

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 3

Test Report# 25T04X801478-001

Manufacturer: Philips Healthcare (Suzhou)
Co., Ltd.

Model Line: Rembra RT/Rembra/Areta RT

Model Number: Noah RT

Description: CT System Couch

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.0	1	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.5	0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.) ¹
20.3	215.8	35.6	2017

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
>33.3	2.15	2.93

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel with plastic shell.

¹Weight listed includes 551 lb. simulated patient load

UUT Mounting Details:

OSP-0881

BY: Mohammad Karim



UUT was rigid base mounted with (6) M16 bolts, grade 8.8. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description (Manufacturer)	Model Number	Material
N/A		

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 4

Test Report# 25T04X801478-001

Manufacturer: Philips Healthcare (Suzhou) Co., Ltd.
Model Line: Rembra RT/Rembra/Areta RT
Model Number: CT128PGA310
Description: CT System Standard Console

Highest Passed Test Level									
S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}	
2.0	1	1.3	3.5	1.5	3.20	2.15	1.67	0.67	
2.5	0	1.0	1.0						

Dimensions/Weights			
Depth (in)	Width (in)	Height (in)	Weight (lbs.)
8.5	21.7	17.5	59.5

Lowest Natural Frequency (Hz)		
Front-Back	Side-Side	Vertical
>33.3	23.0	>33.3

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	Carbon steel with plastic shell.

UUT Mounting Details:

OSP-0881



UUT was rigid base mounted with (4) M10 bolts, grade 8.8. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description (Manufacturer)	Model Number	Material
N/A		

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 5

Test Report# 25T04X801478-001

Manufacturer:	Philips Healthcare (Suzhou) Co., Ltd.	Highest Passed Test Level							
Model Line:	Rembra RT/Rembra/Areta RT	S_{DS}	z/h	R_μ	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}
Model Number:	CT128PGA310	2.0	1	1.3	3.5	1.5	3.20	2.15	1.67
Description:	CT System Premium Console	2.5	0	1.0	1.0				0.67

Dimensions/Weights				Lowest Natural Frequency (Hz)		
Depth (in)	Width (in)	Height (in)	Weight (lbs.)	Front-Back	Side-Side	Vertical
8.5	21.7	17.5	59.5	>33.3	20.3	>33.3

Building Codes	Test Criteria	Construction/Option Summary
CBC 2025	ICC-ES AC156-24	Carbon steel with plastic shell.

UUT Mounting Details:

OSP-0881

BY: Mohammad Karim



UUT was rigid base mounted with (4) M10 bolts, grade 8.8. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description (Manufacturer)	Model Number	Material
N/A		

SPECIAL SEISMIC CERTIFICATION UUT SUMMARY

UUT 6

Test Report# 25T04X801478-001

Manufacturer: Philips Healthcare (Suzhou)
Co., Ltd.

Model Line: Rembra RT/Rembra/Areta RT

Model Number: GXT5-1500IRT2UXLE

Description: UPS

Highest Passed Test Level

S_{DS}	z/h	R_{μ}	H_f	I_p	A_{flx-h}	A_{rig-h}	A_{flx-v}	A_{rig-v}
2.0	1	1.3	3.5	1.5	3.20	2.15	1.67	0.67
2.5	0	1.0	1.0					

Dimensions/Weights

Depth (in)	Width (in)	Height (in)	Weight (lbs.)
3.4	18.5	17.0	46.3

Lowest Natural Frequency (Hz)

Front-Back	Side-Side	Vertical
>33.3	>33.3	>33.3

Building Codes

CBC 2025

Test Criteria

ICC-ES AC156-24

Construction/Option Summary

Carbon steel with plastic shell.

UUT Mounting Details:



UUT was rigid base mounted with (4) M10 bolts, grade 8.8. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

List of Included Subcomponents

Description (Manufacturer)	Model Number	Material
N/A		