



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-0752

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: GE Healthcare

Manufacturer's Technical Representative: Du Pengfei

Mailing Address: No. 1, Yong Chang North Road, Beijing Economic & Technological Development Zone, Beijing, Hebei Province 100176

Telephone: (1891) 190-1406 Email: Pengfei.du@gehealthcare.com

Product Information

Product Name: Definium Tempo / Definium Tempo Pro / Definium Tempo Select

Product Model Number(s): Varies. See Attachment

Product Category: Fluoroscopy and Radiography Systems

Product Sub-Category: Fluoroscopy and Radiography Systems

General Description: System components of multiple-component medical diagnostic radiography imaging systems.

Mounting Description: Several - See Certified Product Tables

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



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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): _____

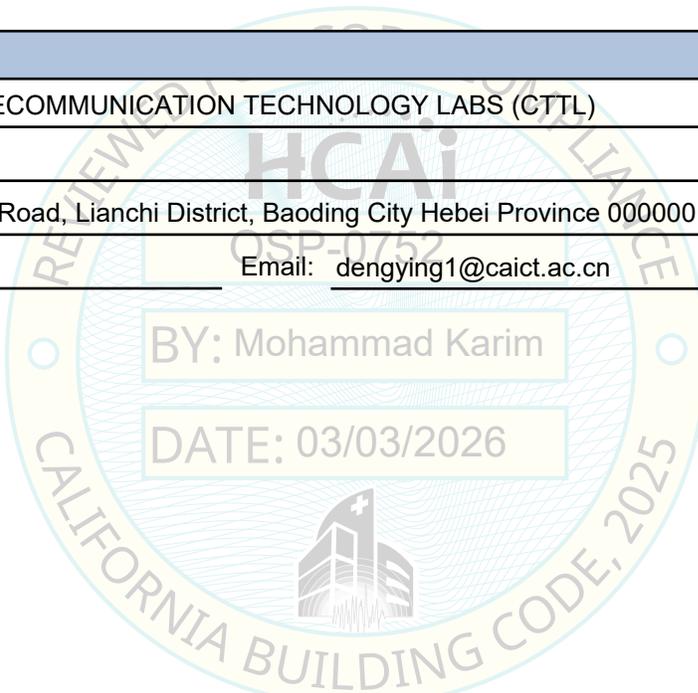
Testing Laboratory

Company Name: CHINA TELECOMMUNICATION TECHNOLOGY LABS (CTTL)

Contact Person: Ying Deng

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

Telephone: (8603) 126-7989 Email: dengying1@caict.ac.cn





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Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal (A Flx-H), $g = \underline{3.20}$ (A Rig-H), $g = \underline{2.15}$

Vertical (A Flx-V), $g = \underline{1.67}$ (A Rig-V), $g = \underline{0.67}$

SDS (Design spectral response acceleration at short period, g) = 2.0 @ $z/h = 1.0$; 2.5 @ $z/h = 0$

H_f (Force amplification height factor) = 1.0 @ $z/h = 0$; 3.5 @ $z/h = 1$

R_u (Structure ductility reduction factor) = 1.0 @ $z/h = 0$; 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 03/03/2032

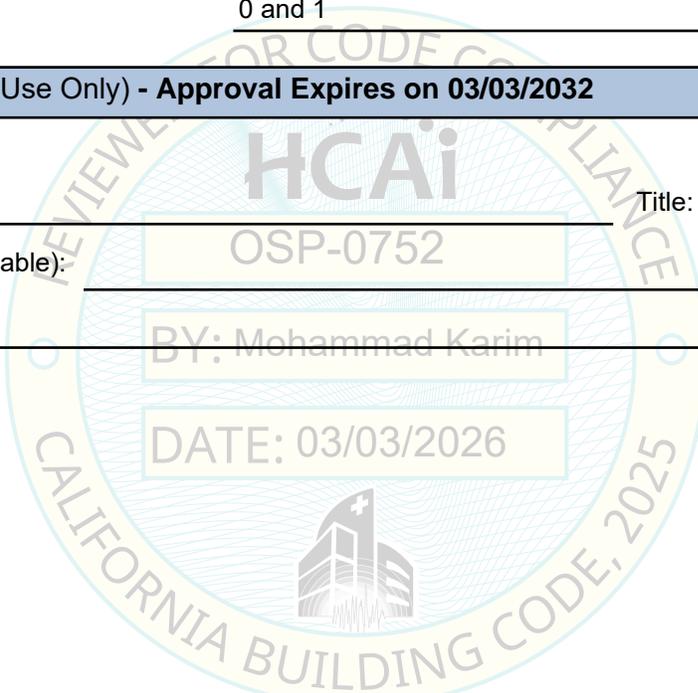
Date: 3/3/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable): OSP-0752

BY: Mohammad Karim

DATE: 03/03/2026



Manufacturer:	GE Healthcare	Seismic Parameters	Building Codes
Product Type:	Fluoroscopy & Radiography Systems	$S_{DS} = 2.5g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$	$I_p = 1.5$ CBC 2025
Model Line:	Definium Tempo / Definium Tempo Pro / Definium Tempo Select	$S_{DS} = 2.0g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	

TABLE 1 Mounting Configuration: Ceiling Mounted - Rigid

Construction Summary	Options Summary
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Constructed of carbon steel, aluminum, and plastic components

2 or 3 Meter Bridge
134" to 228" and 12m Longitudinal Rails

Assembly (Components)	Subcomponents	Model Number	Max. Dimensions (in)			Wt. (lb)	UUT
			D	W	H ¹		
Overhead Tube Suspension (2 meter bridge)	2 Meter Bridge	5823488	90.9	228	41.1 - 104.1	1,065	7
	Tube Support ²	5822306					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
Overhead Tube Suspension (2 meter bridge)	2 Meter Bridge	5823488	90.9	472	41.1 - 104.1	1,213	Interp.
	Tube Support ²	5822306					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
	Longitudinal Rails (12m)	5492991					
Overhead Tube Suspension (2 meter bridge)	2 Meter Bridge	5823488	90.9	228	41.1 - 104.1	1,065	Same ⁴
	Tube Support ³	5822306-1					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
Overhead Tube Suspension (2 meter bridge)	2 Meter Bridge	5823488	90.9	472	41.1 - 104.1	1,213	Interp.
	Tube Support ³	5822306-1					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
	Longitudinal Rails (12m)	5492991					

Notes: 1. Range of outer height from top of longitudinal rail to lowest point. 2. China made 3. Mexico made 4. Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico, and China are identical. Manufacturing process at all locations are ISO 13485 certified.

Manufacturer:	GE Healthcare	Seismic Parameters	Building Codes
Product Type:	Fluoroscopy & Radiography Systems	$S_{DS} = 2.5g$ for $z/h=1, R_{\mu}=1.3, H_f=3.5$	$I_p = 1.5$ CBC 2025
Model Line:	Definium Tempo / Definium Tempo Pro / Definium Tempo Select	$S_{DS} = 2.0g$ for $z/h=0, R_{\mu}=1.0, H_f=1.0$	

TABLE 1 Mounting Configuration: Ceiling Mounted - Rigid

Construction Summary	Options Summary
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Constructed of carbon steel, aluminum, and plastic components

2 or 3 Meter Bridge
134" to 228" and 12m Longitudinal Rails

Assembly (Components)	Subcomponents	Model Number	Max. Dimensions (in)			Wt. (lb)	UUT
			D	W	H ¹		
Overhead Tube Suspension (3 meter bridge)	3 Meter Bridge	5823489	128.9	228	41.1 - 104.1	1,111	8
	Tube Support ²	5822306					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
Overhead Tube Suspension (3 meter bridge)	3 Meter Bridge	5823489	128.9	472	41.1 - 104.1	1,259	Interp.
	Tube Support ²	5822306					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
	Longitudinal Rails (12m)	5492991					
Overhead Tube Suspension (3 meter bridge)	3 Meter Bridge	5823489	128.9	228	41.1 - 104.1	1,111	Same ⁴
	Tube Support ³	5822306-1					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
Overhead Tube Suspension (3 meter bridge)	3 Meter Bridge	5823489	128.9	472	41.1 - 104.1	1,259	Interp.
	Tube Support ³	5822306-1					
	X-Ray Tube	46-155400G284					
	Collimator (AL01C II eL)	5730663					
	Longitudinal Rails (134" to 228")	46-316480G1 to 46-316480G24					
	Longitudinal Rails (12m)	5492991					

Notes: 1. Range of outer height from top of longitudinal rail to lowest point. 2. China made 3. Mexico made 4. Design, construction, materials and grades, quality control and quality assurance methods used in manufacturing for products in the US, Mexico, and China are identical. Manufacturing process at all locations are ISO 13485 certified.

UUT	Model	Test Report	Test Laboratory	Test Date	S _{DS}	z/h	R _μ	H _f	I _p
1a	Motorized Extended Wall (GCEWS-C3) w/FlashPad HD 17x17 with Detector Tray (Base mounted - rigid)	SQ12-1812-01 r2 (UUT 8)	ETL	10/15/2018	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
1b	Motorized Extended Wall (GCEWS-C3) w/FlashPad HD 17x17 without Detector Tray (Base mounted - rigid)	SQ12-1812-01 r2 (UUT 8A)	ETL	10/15/2018	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
2	Manual Extended Wall (GCMWS-C5) w/FlashPad HD 14x17 (Base Mounted - rigid)	SQ12-1812-01 r2 (UUT 9)	ETL	10/15/2018	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
3	System Cabinet (GCC-C4) (Base Mounted - rigid)	No. B22X80804 Rev. 1 (UUT 3)	CAICT	9/23/2024	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
4	HP Z4G4 Workstation (8780000-W27) (Base Mounted - rigid)	No. B22X80804 Rev. 1 (UUT 4)	CAICT	9/23/2024	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
5	AP Assembly (5845913) w/ Mounting Bracket (Wall mounted - rigid)	No. B22X80804 Rev. 1 (UUT 5)	CAICT	9/23/2024	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
6	Tether Interface Box, TIB (5876669) (Wall mounted - Rigid)	No. B22X80804 Rev. 1 (UUT 6)	CAICT	9/23/2024	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
7	Overhead Tube Suspension (2 meter bridge) (Ceiling mounted - rigid)	No. B22X80805 Rev. 1 (UUT 3)	CAICT	8/16/2022	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
8	Overhead Tube Suspension (3 meter bridge) (Ceiling mounted - rigid)	No. B22X80805 Rev. 1 (UUT 1)	CAICT	8/16/2022	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
9	Radiographic Table (GCTBL-C4) w/FlashPad HD 17x17 (Base mounted - rigid)	No. B22X80805 Rev. 1 (UUT 2)	CAICT	8/16/2022	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
10	HP Z4G5 Workstation (Base Mounted - rigid)	No. 24B02X801692-001 (UUT 1)	CAICT	9/23/2024	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
11	Radiographic Table (GCTBL-C44) (Base mounted - rigid)	No. 25T04X801862-001 (UUT 1)	CAICT	12/22/2025	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5
12	System Cabinet (GCC-C5) (Base Mounted - rigid)	No. 25T04X801862-001 (UUT 2)	CAICT	12/22/2025	2.0 2.5	1.0 0.0	1.3 1.0	3.5 1.0	1.5

UUT 7

Test Report# B22X80805 Rev.1 (UUT3)

Manufacturer: GE Hualun Medical Systems, Co, Ltd
Model Line: Definium Tempo / Definium Tempo Pro / Definium Tempo Select
Model Number: Overhead Tube Suspension (2 meter bridge)

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}	
2.00	1	1.3	3.5	1.5	3.20	2.15	1.67	0.67	
2.50	0	1.0	1.0						

Dimensions/Weights			
Depth (in)	Width (in)	Height (in) ¹	Weight (lbs.)
90.9	228	72.0	1,065

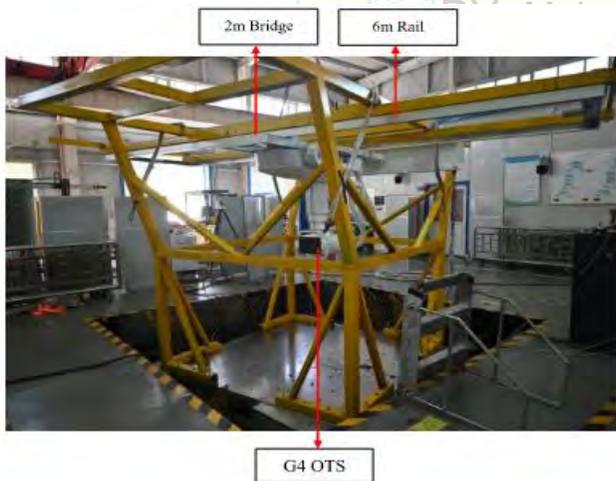
Lowest Natural Frequency (Hz)			
Front-Back	Side-Side	Vertical	
N/A	N/A	N/A	

Building Codes
CBC 2025

Test Criteria
ICC-ES AC156-24

Construction/Option Summary
Constructed of carbon steel, aluminum, and plastic components

UUT Mounting Details:



List of Included Subcomponents

Description	Model #
Collimator (AL01C II eL) (GE Healthcare)	5730663
G4 OTS	5822306
Longitudinal Rails (228") (GE Healthcare)	46-316480G24
OTS 2M Bridge (GE Healthcare)	5823488
Tube Support (GE Healthcare)	5822306
X-Ray Tube (GE Healthcare)	46-I54400G284

UUT was rigid ceiling mounted. The 6m rail and 2m bridge are connected to the fixture with (24) M12 screws. The fixture is connected to the table with (16) M16 screws. The bridge system was powered on and locked by an electromagnetic brake when testing, same as normal use. Unit maintained structural integrity and remained operational per manufacturer requirement following shake table test. All contents were included in the unit per operating conditions.

¹ Outer height from top of longitudinal rail to the lowest point:	
Min Height: 41.1"	
Max Height: 104.1"	

