

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

APPLICATION FOR HCAI SPEC		OFFICE USE ONLY
CERTIFICATION PREAPPROVA		APPLICATION #: OSP-0833
HCAI Special Seismic Certification Preap	oproval (OSP)	
Type: New X Renewal		
Manufacturer Information		
Manufacturer: Siemens Medical Solutions U	SA, Inc.	
Manufacturer's Technical Representative: Mich.	ael Dulude	
Mailing Address: 40 Liberty Boulevard, Malvern	, PA 19355	
Telephone: (865) 438-9020	Email: michael.dulude@sid	emens-healthineers.com
Product Information		
Product Name: Trinion PET-CT System		
Product Model Number(s): See attachment	пся	E.
Product Category: CT Systems	OSP-0833	- CF
Product Sub-Category: NA		
General Description: Multiple component sy diagnostic evaluation.	stem used for producing Comp	uted Tomography (CT) medical images for
Mounting Description: Base Mounted Rigid -	DATE: 05/20/2025	N
	nancements made to the test un luring the tests shall be incorpo	its and/or modifications required to address rated into the production units.
Applicant Information		
Applicant Company Name: WE Gundy & Assoc	iates, Inc	
Contact Person: Travis Soppe	DOILDING	
Mailing Address: PO Box 9121, Boise, ID 8370	7	
Telephone: (208) 342-5989	Email: tsoppe@wegai.com	
Title: President		



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

"A healthier California where all receive equitable, affordable, and quality health care"

OSP-0833



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

California Licensed Structural Engineer Re	esponsible for the Engineering and Test Report(s)
Company Name: W.E. GUNDY & ASOCIATES IN	IC.
Name: Travis Soppe	California License Number: S6115
Mailing Address: P.O. Box 9121, Boise, ID 83707	
Telephone: (208) 342-5989	Email: tsoppe@wegai.com
Certification Method	
GR-63-Core X ICC-ES AC156	☐ IEEE 344
Other (Please Specify):	
	FOR CODE CON
Testing Laboratory	
Company Name: ENVIRONMENTAL TESTING L	ABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange	2
Mailing Address: 11034 Indian Trail, Dallas TX 75	5229-3513
Telephone: (972) 247-9657	Email: jeremy@etIdallas.com
CALIFORN	ATE: 05/20/2025



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

"A healthier California where all receive equitable, affordable, and quality health care"

OSP-0833



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

#### Seismic Parameters

Design Basis of Equipment or Components	s (Fp/Wp) =2.4 (SDS =2.0g @z/h =	= 1.0) and 1	.13 (SDS = 2.5g @ z/h = 0.0)
SDS (Design spectral response acce	leration at short period, g) = $2.0 (z/h)$	= 1.0) and 2	2.50 (z/h = 0.0)
ap (Amplification factor) =	1.0		
Rp (Response modification factor) =	1.5		
$\Omega_0$ (System overstrength factor) =	2.0		
Ip (Importance factor) =	1.5		
z/h (Height ratio factor) =	1 and 0		
Natural frequencies (Hz) =	See Attachment		
Overall dimensions and weight =	See Attachment		
HCAI Approval (For Office Use Only)	- Approval Expires on 05/20/203	81	
Date: 5/20/2025	OSP-0833	<b>F</b>	
Name: Mohammad Karim		Title:	Supervisor, Health Facilities
Special Seismic Certification Valid Up to: S	SDS(g) = 2.0	z/h =	1
Condition of Approval (if applicable):	DATE: 05/20/2025		
	PRIMA BUILDING CO	Ser.	



"A healthier California where all receive equitable, affordable, and quality health care" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSP-0833

### TABLE 1

### SIEMENS HEALTHCARE SPECIAL SEISMIC CERTIFICATION CERTIFIED SYSTEM AND COMPONENTS



#### Manufacturer: Siemens Healthcare

#### System: Trinion PET CT System

	Siemens		Dimensions (	in)	Weight	M	UUT <sup>2</sup>			
System Component <sup>1</sup>	Part Number	Width	Depth	Height	(lb)	Mounting				
<b>Combined PET/CT Gantries<sup>3</sup></b>										
Biograph Trinion EP CT64 (HP2 3 Ring)	10756474	89.3	61.3	76.1	5158	Floor	UUT <sub>y</sub> -1			
Biograph Trinion EP CT128 (HP4 3 Ring)	10756478	89.3	61.3	76.1	5370	Floor	interpolated			
Biograph Trinion EP2 CT64 (HP2 4 Ring)	10756476	89.3	061.3	76.1	5386	Floor	interpolated			
Biograph Trinion EP2 CT128 (HP4 4 Ring)	10756479	89.3	61.3	76.1	5408	Floor	interpolated			
Biograph Trinion.X EP5 CT64 (HP2 6 Ring)	11713854	89.3	61.3 -0833	76.1	5435	Floor	interpolated			
Biograph Trinion.X EP5 CT128 (HP4 6 Ring)	11713856	89.3 Mohai	61.3 mmad Karin	76.1	5457	Floor	interpolated			
Biograph Trinion.X EP9 CT64 (HP2 8 Ring)	11713857	89.3	61.3 5/20/2025	76.1	5549	Floor	interpolated			
Biograph Trinion.X EP9 CT128 (HP4 8 Ring)	11713858	89.3	61.3	76.1	5571	Floor	UUT <sub>z</sub> -1			
Patient Table <sup>4</sup>										
PHS - Neo X	10755469	16.0	148.0 - 239.7	46.0	1501	Floor	UUT <sub>z</sub> -2			

<sup>1</sup> All components are manufactured by Siemens Healthcare unless noted. Part numbers listed uniquely identify type of component, manufacturer, and material of construction for each sub-component within the tested units.

<sup>2</sup> The units were tested at different times and the subscripts on the UUT reference the following lab test reports:

y - 17163 Rev.2 / z - 17323 Rev.2

<sup>3</sup> The PET gantries for  $UUT_y$ -1 and  $UUT_z$ -1 do not have special seismic certification and are not included as certified components. The certification applies only to the components of the CT systems.

<sup>4</sup> Patient table weight listed does not include simulated patient weight used for test. See UUT summary sheet for simulated patient weight.

SEISMIC CERTIFICATION LIMITS										
System Component	Code	S <sub>DS</sub> (g)	z / h	I <sub>P</sub>	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>	$\mathbf{F}_{\mathbf{P}}$ / $\mathbf{W}_{\mathbf{P}}$		
CT Contribut	CBC	2.0	1.0	1.5	1.0	1.5	2.0	2.40		
CT Gantries	2022	2.5	0					1.13		
Patient Table	ASCE	2.0	1.0	1.5	1.0	1.5	2.0	2.40		
Fatient Table	7-16	2.5	0	1.5	1.0	1.5	2.0	1.13		

UUT<sub>y</sub>-1

### UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Floor mounted with (32) 5/8" diameter grade 5 bolts.



certification and is not included as certified component. The certification applies only to the components of the CT system.

UUTz-1

# UNIT UNDER TEST (UUT) SUMMARY SHEET



#### Mounting Details: Floor mounted with (32) 5/8" diameter grade 5 bolts.

Manufacturer: Siemens Medical Solutions USA Test Location: ETL (Dallas, TX)										
	Biograph Trinior	<u>.</u>	17770		<u>NNN</u>	te: June 202		Δ)		
Component.	(HP4 8 Ring)	-TVIA	AN I			(0)		_		
Model Numbe			BL		THE	Number: 1		2		
	e: Continuous ro				-					
UUT Descript	ion: Combined	-			-		PET CT sy	vstem.		
	1				PERTI	ES				
Weight (lb)		nensions (in	ches)				atural Freq		<i>,</i>	
	Width	Depth		Heig	-	FB			V	
5,571	89.3	61.3		76.	1	7.4	11.	4	15.8	
		SEISM	IIC T	TEST ]	PARAN	1ETERS		[		
Building Code	e / Test Criteria	S <sub>DS</sub> (g)	Z	/ h	Ip	A <sub>FLX-H</sub> (g)	$A_{RIG-H}(g)$	A <sub>FLX-V</sub> (g	) $A_{RIG-V}(g)$	
CDC 2022 / I		2.00	1	.0	1.5	3.20	2.40			
	CC-ES AC156	2.50	0	).0	1.5			1.67	0.67	
maintained struct	as full of content dur tural integrity during is not included as ce	and after the	ICC-E	ES AC1:	56 test. Tl	ne PET gantry	does not have	e special seis	mic	

## UNIT UNDER TEST (UUT) SUMMARY SHEET



#### **Mounting Details:** Floor mounted with (34) 1/2" diameter grade 8 bolts.

Image: Sector	Immad Karim
Manufacturer: Siemens Medical Solutions USA	Test Location: ETL (Dallas, TX)
Component: PHS – Neo X	Test Date: June 2024
<b>Model Number:</b> 10755469	<b>Report Number:</b> 17323 Rev.2
UUT Function: Motorized patient support	

UUT Description: Patient Table for the Trinion PET CT system.

### **UUT PROPERTIES**

Weight (lb)	Di	mensions (inch	es)	Nati	ural Frequency	(Hz)
with Patient	Width	Depth	Height	FB	SS	V
1,981	16.0	193.0	46.0	N/A	3.8	4.6

The patient table moves vertically and horizontally to accommodate different positions and procedures. The system was tested in the normal operating position, with a tabletop vertical height of 36.1 inches, horizontally centered, and with a total simulated patient weight of 480lbs.

SEISMIC TEST PARAMETERS										
Building Code / Test Criteria S <sub>DS</sub> (g) z / h I <sub>P</sub> A <sub>FLX-H</sub> (g) A <sub>RIG-H</sub> (g) A <sub>FLX-V</sub> (g) A <sub>RIG-H</sub>										
	2.00	1.0	1.5	3.20	2.40					
CBC 2022 / ICC-ES AC156	2.50	0.0	1.5			1.67	0.67			
Note: The unit was full of contents du				before and aft	er the ICC-ES	S AC156 test.	The unit			

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.