

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE USE ONLY				
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0390				
OSHPD Special Seismic Certification Preapproval (OSP)					
Type: New X Renewal					
Manufacturer Information					
Manufacturer: SIEMENS HEALTHCARE					
Manufacturer's Technical Representative: <u>Hu Yong</u>					
Mailing Address: 278 Zhou Zhu Rd., PuDong New District, Sh 201318					
Telephone: (8621) 388-9500 Email: zhiyong.hu@sieme	ens-healthineers.com				
Product Information	A				
Product Name: CT Systems	- Fr				
Product Type: NA	- Cr				
Product Model Number: See attachments					
General Description: Multiple component systems for the provision of Con applications.	puted Tomography medical diagnostic				
Mounting Description: Rigid, Floor Mounted					
Tested Seismic Enhancements: None None					
T T	25				
Applicant Information	Sec.				
Applicant Company Name: W.E. Gundy & Associates, Inc.	*				
Contact Person: Travis Soppe					
Mailing Address: 1199 Shoreline Drive, Boise, ID 83702					
Telephone: (208) 342-5989 Email: tsoppe@wegai.com	n				

Title: President

"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSP-0390

OSHPD



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: W.E. GUNDY & ASOCIATES INC.
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 IEEE 693 NEBS 3
Other (Please Specify):
FORCODECO
Testing Laboratory
Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Brady Richard
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: brady@etIdallas.com
DATE: 07/15/2021
S. E
FRUIT ORNIA BUILDING CODE. 25
BUILDING

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Seismic Parameters			
Design Basis of Equipment or Components	s (Fp/Wp) = See attachments		
SDS (Design spectral response accel	eration at short period, g) = See attach	ments	
ap (Amplification factor) =	See attachments		
Rp (Response modification factor) =	See attachments		
Ω_0 (System overstrength factor) =	See Attachment		
lp (Importance factor) =	1.5		
z/h (Height ratio factor) =	1 and 0		
Natural frequencies (Hz) =	See attachments		
Overall dimensions and weight =	See attachments ODE COMP		
OSHPD Approval (For Office Use Only	() - Approval Expires on 12/31/202	52	
Date: 7/15/2021	OSP-0390	m	
Name: Mohammad Aliaari		Title:	Senior Structural Engineer
Special Seismic Certification Valid Up to: S	DS (g) = See Above	z/h =	See Above
Condition of Approval (if applicable):	DATE: 07/15/2021		
	TORNIA BUILDING CODE	6102	

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OSHPD

TABLE 1	W.E. GUNDY & A	GAI ASSOCIATES, INC. HOUAKE ENGINEERING							
Manufacturer	: Siemen	s Healthca	are Gml	оН					
System: SOMA	ATOM Pe	erspective	CT				1	, ,	
System Com	oonent ¹⁾	Siem			imensions (i		Weight	Mounting	UUT
~,	F		mber	Width	Depth	Height	(lb)	8	
				(Gantries				
SOMATOM Pe	rspective	10495	243	89.6	26.8	71.7	2941	floor	UUT-1
				Pati	ient Table	S	_		
Patient Ta	ble	10355	389	97.4 - 121.9	C 27.6E	37.3	753	floor	UUT-2 ²
			Ima	ge Contro	l and Rec	onstructio	on		
Image Control	System	10661	038	8.5	20.6	17.5	48	floor	UUT-3
Image Recons System		106 <mark>61</mark>	000	7.0	25.5	17.8	61	floor	UUT-4
				Line	Control B	laan ox	0		
Line Contro	l Box	10165	884	DATE: 0 11.8	7/15/202 29.5	32.0	249	floor	UUT-5
			P	Pov	ver Supply	y N	5	· · · ·	
Eaton EX 220	00 UPS	07735	090	R/5,1	19.0	C 17.6	69	floor	UUT-6
¹ All components component, man ² Patient table we	ufacturer,	and mater	ial of co	nstruction for	each sub-con	nponenent w		1 2	identify type of
				SMIC CER		1	T		F (X)
System Com	ponent	Code CBC	S _{DS} (g)	z / h	I _P	a _P	R _P	Ω ₀	$\mathbf{F}_{\mathbf{P}}$ / $\mathbf{W}_{\mathbf{P}}$
Gantrie	s	2019	2.00	1.0	1.50	1.0	1.5	1.5	2.40
Patient Ta	bles	CBC 2019	2.00	1.0	1.50	1.0	1.5	1.5	2.40
Image Contr Reconstruc		CBC 2019	1.67	1.0	1.50	1.0	2.5	2.0	1.20
Line Contro	ol Box	CBC 2019	1.67	1.0	1.50	1.0	2.5	2.0	1.20
Power Sup	oply	CBC 2019	1.67	1.0	1.50	1.0	2.5	2.0	1.20

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 1/2" grade 8 bolts



UUT Function: Continuous rotating detector for high-resolution data acquisition

UUT Description: Component of the SOMATOM Perspective CT system

UUT PROPERTIES

Weight (lb)		Dimensio	ns (inches)			Natural Frequency (H			
weight (10)	Width	De	pth	Height		FB	SS	V	
2,941	89.6	26.8			71.7	4.2	5.9	15.3	
SEISMIC TEST PARAMETERS									
Building Co	Building Code / Test Criteria $S_{DS}(g)$ z / h I_P $A_{FLX-H}(g)$ $A_{RIG-H}(g)$ $A_{FLX-V}(g)$ $A_{RIG-V}(g)$								
CDC 2010 /	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40			
СВС 20197	ICC-ES AC150	2.50	0.0	1.5			1.68	0.68	
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.

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 1/2" grade 8 bolts.



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with two hand-tightened, 1" wide straps (300lb WLL), thru L2.5x2.5x1/4" x 2.5" brackets positioned on either side of the unit (spaced 12" apart). The four angle brackets are attached to a 3/4" plywood floor with (2) 1/4" wood screws in each bracket.



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with two hand-tightened, 1" wide straps (300lb WLL), thru L2.5x2.5x1/4" x 2.5" brackets positioned on either side of the unit (spaced 12" apart). The four angle brackets are attached to a 3/4" plywood floor with (2) 1/4" wood screws in each bracket.



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 3/8" grade 8 bolts

		and a state of the		0390 nad Aria				
	r: Siemens Healtho	are GmbH					l Testing La	boratory
	Line Control Box		ABUI	$++++\times$	te: January			
Model Numb			UIL	Report	Number: S	Q35-1401-	-01 Rev.1	
	n: System controls							
UUT Descript	tion: Component o							
			JUT PRO		S			
Weight (lb)			ns (inches)				al Frequenc	· · · /
e v v	Width		pth	1	eight	FB	SS	V
249	11.8		0.5		32.0	13.9	25.3	>33
		SEISM	IC TEST	PARAM	ETERS			
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	I _P	$A_{FLX-H}(g)$	$A_{\text{RIG-H}}(g)$	$A_{FLX-V}\left(g\right)$	$A_{RIG-V}(g)$
CBC 2010 /	ICC-ES AC156	1.67	1.0	1.5	2.67	2.00		
CDC 20197	ICC-LO AC130	2.50	0.0	1.5			1.68	0.68
	as full of contents duri ural integrity during ar				efore and afte	r the ICC-ES	AC156 test. T	ĥe unit

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with two hand-tightened, 1" wide straps (300lb WLL), thru L2.5x2.5x1/4" x 2.5" brackets positioned on either side of the unit (spaced 12" apart). The four angle brackets are attached to a 3/4" plywood floor with (2) 1/4" wood screws in each bracket.

		BY: DAT	OF OF OSP Moham	5/2021				
	r: Siemens Healtho	- PA		A A A A A A A A A A A A A A A A A A A	cation: Environment te: January		l Testing La	aboratory
Model Numb	Eaton EX 2200 UP	3	BUIL		Number: S		-01 Rev 1	
	n: Uninterruptable	nower sum	alv	Keport		Q35-1401-	-01 KCv.1	
	tion: Component of			vstems				
			JUT PRO		S			
		Dimensio				Natur	al Frequenc	v (Hz)
Weight (lb)	Width	Dimensio		/	eight	FB	SS	V
69	5.1		0.0		17.6	10.9	25.9	28.2
		SEISM	IC TEST	PARAM	IETERS		-	
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
		1.67	1.0	1.5	2.67	2.00		
CBC 2019 /	ICC-ES AC156	2.50	0.0	1.5			1.68	0.68
	as full of contents duri ural integrity during an				efore and after	r the ICC-ES	AC156 test. 7	The unit