

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE	USE ONLY
	APPLICATION #:	OSP – 0263
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: 🗌 New 🛛 Renewal		
Manufacturer Information		
Manufacturer: Siemens Healthcare Diagnostics Inc.		
Manufacturer's Technical Representative: <u>Bob Wiedenmann</u>		
Mailing Address: Glasgow Business Community, #600 P.O Box 6 ⁴	101 Newark DE 19714	I-6101
Telephone: 302-631-7539	edenmann@siemens-	-healthineers.com
Product Information	10,	
Product Name: Alpha Technologies Pinnacle Plus 6000T UPS & Falco	n Electric SG2K-1T U	PS
Product Type: Uninterruptable Power Supply (UPS)SP-0263	- Crit	<u> </u>
Product Model Number: <u>See Attachment 1 for a listing of Seismically C</u> (List all unique product identification numbers and/or part numbers) <u>Staehling</u> General Description: <u>UPS units for Siemens Healthcare Diagnostics A</u> <u>Approval is limited to units identical to tested units</u> . <u>5/26/2021</u> Mounting Description: Rigid base mounted	n	
	0	
Applicant Information	DDE.	
Applicant Company Name: CYS STRUCTURAL ENGINEERS, INC.		
Contact Person: Dieter T. Siebald		
Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA	A 95833	
Telephone: 916-920-2020 Email: dieters@)cyseng.com	
I hereby agree to reimburse the Office of Statewide Health Pla accordance with the California Administrative Code, 2016.	anning and Develo	opment review fees in
Signature of Applicant: And And	Date	: <u>2019-12-20</u>
Title: <u>Structural Engineer/Project Mgr</u> Company Name: <u>CYS STR</u>	RUCTURAL ENGINEE	ERS, INC.
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 09/05/19)	MMM	OSHPD Page 1 of 3

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)									
Company Name: CYS Structural Engineers, Inc.									
Name: Dieter T. Siebald California License Number: S4346									
Mailing Address: 2495 Natomas Park Drive, Suite 650, Sacramento, CA 95833									
Telephone: 916-920-2020 Email: dieters@cyseng.com									
Supports and Attachments Preapproval									
Supports and attachments are preapproved under OPM- 0543-13 (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)									
Supports and attachments are not preapproved									
Certification Method									
 Testing in accordance with: Other (Please Specify): 									
<u>OSP-0263</u>									
By: William Staehlin									
Testing Laboratory									
Company Name: Environmental Testing Laboratory, Inc. 6/2021									
Contact Name: Brady Richard									
Mailing Address:11034 Indian Trails, Dallas, TX 75229-3513									
Telephone: 972-247-9657 Email: brady@etIdallas.com									

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

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: 🖂 Yes 🔲 No
Design Basis of Equipment or Components (Fp/Wp) = <u>1.87</u>
S_{DS} (Design spectral response acceleration at short period, g) = 2.60
a _p (In-structure equipment or component amplification factor) = <u>1.0</u>
R_p (Equipment or component response modification factor) = <u>2.5</u>
Ω_0 (System overstrength factor) = _2.0
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = <u>1.0</u>
Equipment or Component Natural Frequencies (Hz) = <u>See Attachment 1</u>
Overall dimensions and weight (or range thereof) =See Attachment 1
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes Xet No
Design Basis of Equipment or Components (V/W) =
S _{DS} (Design spectral response acceleration at short period, g) =
S_{D1} (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
Ω₀ (System overstrength factor) =
C₄ (Deflection amplification factor) =
I₂ (Importance factor) = 1.5
Height to Center of Gravit <mark>y above</mark> base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: 🗌 Yes 🖾 No
List of Attachments Supporting Special Seismic Certification
 ☑ Test Report(s) ☑ Drawings ☑ Calculations ☑ Manufacturer's Catalog ☑ Other(s) (Please Specify): Attachment 1
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Signature: Date: Date: May 26, 2021
Print Name: William Staehlin Title: Senior Structural Engineer
Special Seismic Certification Valid Up to: S _{DS} (g) = <u>2.60</u> z/h = <u>1</u>
Condition of Approval (if applicable):
"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dvnamic Needs"
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 09/05/19) Page 3 of 3



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

REPORT FOR SEISMIC COMPLIANCE

CYS JOB NO. 19072

TABLE 1: COMPONENT LIST AND DESCRIPTION

Certified Product Construction Summary: Carbon steel enclosures

Certified Options Summary:

There are no certified options or accessories used. Equipment is tested for a single configuration only.

Mounting Configuration:

Rigid base mounted

Note: The actual field installed mounting configuration must be similar to the configuration tested and have equivalent strength and stiffness.

Building Code: CBC 2016

Seismic Parameters

 $I_{p} = 1.5$

 $S_{DS} = 2.6g \ z/h = 1.0$

Product Family:	Uninterruptible Pow	ver Systems	SP-0263		The second se				
Manufacturer:	Model Name:	Serial # of	Siemens		ension		Weight	Notes	υυτ
		Tested Unit:	Part No.	Depth	Width	Height	(lbs)		
Alpha Technologies	Pinnacle Plus <mark>6000</mark> T	10085951004	1000037971	10.15	27.5 <mark>5</mark>	<mark>3</mark> 9.44	336.6	6kVA	UUT 1
Falcon Electric	SG2K-1T	1103009031	10471339	7.60	18.90	13.80	68.4	2kVA	UUT 2
		1202			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				
		TNIA 6	UILDING	CON					



ATTACHMENT 2: UNIT UNDER TEST SUMMARY SHEET

REPORT FOR SEISMIC COMPLIANCE

CYS JOB NO. 19072

UUT 1 - Pinnacle Plus 6000T

Model:	turer:	•	a Techno acle Plus	•									
Serial Nu	mber:		5951004										
Compone Carbon st	ent Cons	truction											
<i>Subcomp</i> No certifie			essories.		200								
				OF	U.	DDE C	ON						
Weight	Dim	ensions	(in)	Lowest Natur				lowe	st Natur	al Freque	ency (Hz	S=20	
(lbs)	Depth	Width	Height	Front-Back	Side-Si	the second s	/ertical		Back	Side-Sic		ertical	
336.6	10.15	27.55	39.44	23.40	13.55		15.36	30.00		13.14		14.92	
			1	JUT Highest P	Passed S	eismic T	est Para	meters:					
Building	g Code	Test C	Criteri <mark>a</mark>	Lab Repo	rt No	S _{DS} (g)	z/h	lp	A _{FLX-H} (g)) А _{гід-н} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2010	СВС	ICC-ES	AC1 <mark>56</mark>	ETL Report	11977	$S_{2.6}$	hlin	1.5	4.16	2.90	1.74	0.70	
				DAT	est Moun	ting Det	ails			1			
		Pinnacle Plus 6000T Attachment	Plus 6000T Bracket		셝		coDt	50%		-AV	14	7	

UUT #1, Alpha Pinnacle Plus, was anchored using welded steel brackets (Assembly # 10800360) attached to each side of the UPS with screws that replaced those used to mount the unit side panels. This design originated with Alpha Technologies but the sheet metal thickness was increased to 3/16". It was found that the UPS mounting holes were not properly located to align with the unit and the through holes in the bracket had to be increased to ¼". Oversize washers with a larger diameter had to be used to reduce the risk of the screw heads pulling through the bracket holes. Each bracket was anchored to the table with four (4) 1/2" - 13 hex bolts with lock washers, and the bolts were torqued to 40 ft-lbs.

UUT #1 maintained structural integrity and did not exhibit exterior damage. The UUT also remained functional per manufacturer requirements after the completion of shake table testing at 2.6g.



ATTACHMENT 2: UNIT UNDER TEST SUMMARY SHEET

REPORT FOR SEISMIC COMPLIANCE

CYS JOB NO. 19072

UUT 2 - SG2K-1T

Manufact	uror.	Folor	on Electri	<u></u>								
Manufact Model:	urer:	SG2		6								
	mharr											
Serial Nu			009031									
Compone												
Carbon st	eel enclo	sure										
Subcomp												
No certifie	ed options	s and acc	essories									
					OR CO	DEC						
				EDF	~	operties:						
Weight	Dim	ensions	(in.)	Lowest Natur		-		Lowe	st Natur	al Freque	ncy (Hz) S _{DS} =2.0
(lbs)	Depth	Width	Height	Front-Back	Side-Si		ertical		t-Back	Side-Sid		ertical
68.4	7.60	18.90	13.80	V None	13.50		39.61	CN	one	13.42	3	38.84
			4	JUT Highest P	assed S	eismic Te	est Para	meters	:			
Building	a Code	Test C		Lab Repo		S _{DS} (g)	z/h	lp	_) A _{RIG-H} (g)	A _{FLX-V} (q)	A _{RIG-V} (q)
2010			AC156	ETL Report	Villiam	Stae	hlin 1.0	1.5	4.16	2.90	1.74	0.70
UUT 2 wa	s anchor	Figure 1 - SG2K-1T Testing Configuration	Finite 2 -		Steel bar	nds (Asse	embly # 1	080043	Figure 3 -	Court appoint the second	www.iboltd	ets. The
device had modified in slack in th "Trummet	d not bee n the field e bands er" belt te	en dimens d. Pre-ma and provi ension me	sionally v anufactur ide a pre eter. Eac	erified prior to t red, 1/16" thick tension force. T h bracket was a to 40 ft-lbs.	his testin shims in: he requi	g and the serted un ed band	bands w der the a tension o	vere fou ingle bra of 54 lbs	ind to be ackets we s was ver	too long a ere used to ified with a	nd had t o take up a Hilger I	o be o the J. Kern,

UUT #2 maintained structural integrity and did not exhibit exterior damage. The UUT also remained functional per manufacturer requirements after the completion of shake table testing at 2.6g.

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NOISE 1 100, 50, 110, 120, 100, 100, 100, 100, 100, 10	-			42				E
NOTES. 1 MAGA. 125 SET - 6 KAGE 198, 6.3 THEORES (11 CA. T-CACES) 2 MISH. MAIL 125 SET - 6 KAGE 198, 6.3 THEORES (11 CA. T-CACES) 2 MISH. MAIL 125 SET - 6 KAGE 198, 6.3 THEORES (11 CA. T-CACES) 2 MISH. MAIL 125 SET - 6 KAGE 198, 6.3 THEORES (11 CA. T-CACES) 2 MISH. MAIL 125 SET - 6 KAGE 198, 6.3 THEORES (11 CA. T-CACES) 2 MISH. MAIL 125 SET - 6 KAGE 198, 6.3 THEORES (11 CA. T-CACES) 2 MISH. MAIL 125 SET - 6 KAGE 198, 6.3 THEORES (11 CA. T-CACES) 2 MISH. MAIL 125 SET - 6 KAGE 198, 6.3 THEORES (11 CA. T-CACES) 3 THEOREM ALL AND THE MAIL 125 SET - 6 KAGE 198, 6.3 THEOREM ALL 125 SET OF 3 THEOREM ALL AND THE MAIL 125 SET OF MAIL 125 THEOREM ALL 125 SET OF 3 THEOREM ALL AND THE MAIL 125 SET OF MAIL 125 THEOREM ALL 125 SET OF 3 THEOREM ALL AND THE MAIL 125 SET OF MAIL 125 THEOREM ALL 125 SET OF 3 THEOREM ALL AND THE MAIL 125 SET OF MAIL 125 THEOREM ALL 125 SET OF 3 THEOREM ALL AND THE MAIL 125 SET OF MAIL 125 THEOREM ALL 125 SET OF 3 THEOREM ALL AND THE MAIL 125 SET OF 3 THEOREM ALL AND THE SET OF MAIL 125 THEOREM ALL 125 SET OF 3 THEOREM ALL AND THE SET OF MAIL 125 THEOREM ALL 125 SET OF 3 THEOREM ALL AND THE SET OF MAIL 125 THEOREM ALL 125 THEOREM AL					DECON			
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NOTES: 1. MATERIAL: CRS SHEET - GRADE 1018, 0.3 THICKNESS (11 GA THICKNESS) 2. FINSH- PAINT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / PRIMARY GRAY (LIGHT GRAY) / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / POLANE-T / PER 1000026171 / GLASS A SUBJECT TEXTURED / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000026171 / GLASS A SUBJECT / POLANE-T / PER 1000000000000000000000000000000000000					2021	6		C
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05/26/2021