

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE	USE ONLY						
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #:	OSP – 0329 – 10						
OSHPD Special Seismic Certification Preapproval (OSP)								
Type: 🛛 New 🗌 Renewal								
Manufacturer Information								
Manufacturer: _ Alpha Industrial Power								
Manufacturer's Technical Representative: Phillip Knighton								
Mailing Address: 1075 Satellite Blvd NW, Suwanee, GA 30024-4625								
Telephone: 678-387-4046 Email: pknigh	ton@alpha.com							
Product Information								
Product Name: _ Alpha Backup Battery Systems								
Product Type: _ Emergency Backup Power								
Product Model Number: Various – See Attachments (List all unique product identification numbers and/or part numbers) AC powered battery chargers and battery racks. See attachment for complete product details. Seismic enhancements made to the test units and modifications required to address anomalies General Description: observed during the tests shall be incorporated into the production units.								
Mounting Description: Rigid Base Mount and Rigid Wall Mount								
Applicant Information								
Applicant Company Name: Alpha Industrial Power								
Contact Person: Ron Rice								
Mailing Address: 1075 Satellite Blvd NW, Suwanee, GA 30024-4625								
Telephone: 678-387-4049 Email: rrice@	alpha.com							
I hereby agree to reimburse the Office of Statewide Health Pl accordance with the California Administrative Code, 2013.	anning and Develop	ment review fees in						
Signature of Applicant: <u>Ron Rice</u>	Date	: 4/9/13						
Title: <u>Sales and Marketing Coordinator</u> Company Name: <u>Alpha</u>	Industrial Power							
"Access to Safe. Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"		osDpd						
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY	1							

OSH-FD-759 (REV 1/24/13)



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)										
Company Name:										
Name: Matthew J. Tobolski, Ph.D., S.E California License Number: S5648										
Mailing Address: 9246 Lightwave Ave. Ste. 140, San Diego, CA 92123										
Telephone: 858-381-5843 Email: mtobolski@tobolskiwatkins.com										
Supports and Attachments Preapproval										
 Supports and attachments are preapproved under OPM- (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: ICC-ES AC156 Other (Please Specify): 										
Testing Laboratory										
Company Name: ANCO Engineers, Inc.										
Contact Name: Paul Ibanez										
Mailing Address: <u>1965A 33rd St., Boulder, CO 80301</u>										
Telephone: 303-443-7580 x239 Email: paul@ancoengineers.com										

osDpd



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 $(F_p/W_p) = 0.6$
S_{DS} (Design spectral response acceleration at short period, g) = 2.5
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) = _2.5
I_p (Importance factor) = 1.5
z/h (Height factor ratio) = _0
Equipment or Component Natural Frequencies (Hz) = <u>Various. See Attachments.</u>
Overall dimensions and weight (or range thereof) = Various. See Attachments.
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: 🗌 Yes 🛛 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) =
Ω_0 (System overstrength factor) =
C _d (Deflection amplification factor) =
I_p (Importance factor) = 1.5
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2010: 🗌 Yes 🛛 No
List of Attachments Supporting Special Seismic Certification
 ☑ Test Report(s) ☑ Drawings ☑ Calculations ☑ Manufacturer's Catalog ☑ Other(s) (Please Specify): Attachments
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2019
Signature: Date: June 26, 2013
Signature: Date: June 26, 2013 Print Name: Timothy J. Piland Title: SSE
Special Seismic Certification Valid Up to : $S_{DS}(g) = 2.5$ $z/h = 0$
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

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		0								Ul	JT #	1	
ANCO Engineers, Inc.				с.	Unit Under Test (UUT)								
1965A 33rd Street							C	umm	2 m	, Ch	t	•	
Boulder, CO 80301 (303)443-7580							3	umm					
									A	NCO P	roject Nu	imb	er: 3325.02
Manufacturer Model Line:	•	AlphaRac E				d Cabinets							
Model Numbe	nr.	3G840/160				a cabinets							
Product		•			racky	with NI-CD ba	++4	orios					
Construction		i anneu ste		LCIYI									
Summary:													
Options/		48V config	uratior	1 3 b	atteri	es deep and 3	3 t	iers high.	37 KP	M-300	P batteri	es c	onnected
Subcomponen	t	•				tier, 13 on th		•					
Summary:		,				,		,			• •		
•						UUT Propertie	es						
Weight (lb)	Di	mensions (ir	n)		Lowest Natural Frequency (Hz)								
	De	pth	Widt	h		Height Front-Back		ck	Side-	Side	Vertical		
1393	33		63			33.6	12		9.3			>33	
Se	eism	nic Run Leve	רטט – ו	г Ма	intai	ned Function	ali	ity and Str	uctur	al Inte	grity - Pa	ISS	
Building Code		est Criteria	S _{DS}		z/h	I _P	A _{FLX-H} A _F			i-H	A _{FLX-V}		A _{RIG-V}
CBC 2013	- 10	CC-ES AC-156	2.5		0	1.5	2.5 1.		1.0		1.68		0.68
Test Mounting Details: Image: State of the s													
stands).	20			5 110								Jui	

Form: UUT, revision 0.0

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1965A 33rd Stree Boulder, CO 8030 (303)443-7580	et 01	UUT #2 Unit Under Test (UUT) Summary Sheet ANCO Project Number: 3325.02						
Manufacturer:	Alpha Indust							
Model Line: Model Number:	AlphaRac Ba		LKS and	Cabinets				
Product Construction Summary: Options/ Subcomponent	Altair NEMA		10 Nut	t, hex, M10 Isher, lock, M20	containing	Ins	tery charger an talled in the Alt re 37 KM-40-P	air cabinet
Summary:	11 8 AIPE 10 1 CC- 9 1 CC- 8 1 46 7 1 5 6 1 17 5 1 AIP5 4 1 AIP5 2 1 1STO- 1 1 CAB3	30-0054- -04-072-0 00-025-19 20-027-10 75-026-19 91-0006- 591-0005- 00-0011-	10 Bolt, Hex, M10 x 20 38 Pos Char cable 4AWG, 72" NOTE 2 38 Neg Chgr cable 4AWG, 72" NOTE 1 Fuse, 5A, 250V, slow Fuse Holder Thermostat, N.O. 85*F-C/67*F-0 10 Cover, junction box, galv st 0 0 Box, junction, galv st 10 Fan, exhust, 115V 50/60 CFM 0000 Chgr, SPECTRA, 48V, 12A			wired in series to create a 48V		
Weight (lb) D	imensions (in)		Ľ	JUT Propertie		latur	al Frequency (F	1-)
		Width		Height	Front-Ba			Vertical
710 2		36		72.25	9	11		>33
	mic Run Level -			-	5	uctur		
	Test Criteria	S _{DS}	z/h	I _P	A _{FLX-H}	A _{RIG}		A _{RIG-V}
CBC 2013	ICC-ES AC-156	2.5	0	1.5	2.5	1.0	1.68	0.68
Test Mounting D				•				
The unit was mou	unted to steel r	plates us	ing fou	ir grade 8 3/8	'-16 holts w	/ith st	andard wacho	c Itwo in oach

Form: UUT, revision 0.0

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		0								JT #		
1965A 33rd Street				Unit Under Test (UUT)								
Boulder, CO 80				ç	Summ	arv	She	opt				
(303)443-7580		L				5	Jannin				mbor 2225 02	
Manufacturer		Alpha Indus	trial Pow	er Inc				A		OJECT NU	mber: 3325.02	
Model Line:		AlphaRac B			d Cabine	ets						
Model Numbe	er:		AC\$14075208416101X									
Product		Wall mount	ed ACS b	attery	charger	cabine	t (Nema 1	cabin	et by A	ltair).		
Construction					-							
Summary:												
Options/							-			ted with	one CXCM2	
Subcomponen	t	controller a	nd 2 Coro	lex CR	XF 48-1.	8kW m	odules ins	talled	•			
Summary:												
					UUT Pro	perties					•	
Weight (lb)		mensions (in							ural Frequency (H			
		•	Width		Height		Front-Ba		Side-Side		Vertical	
96		.75	24.5		14.5		N/A			I/A	N/A	
	1	ic Run Level		1	1		-	1				
Building Code CBC 2013		est Criteria	S _{DS} 2.5	z/h 0	Ι _Ρ 1.5		A _{FLX-H}			A _{FLX-V}	A _{RIG-V}	
Test Mounting	1		2.5	0	1.5		2.5	1.0		1.68	0.68	
	7/											
bolts at top o were drilled	of ca I in t	binet). Cabir the lower co	net backb rners of t of the bac	ox wa he ba kbox	is then h ckbox. ¼ to the w	ung on "-20 bo all thro	the brack olts with stough these	et and tanda e new	d two a rd was holes.	additiona hers and The mai	oggle nuts (all al 5/16″ holes l toggle nuts n cabinet was	

Form: UUT, revision 0.0

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	Dimens											
Part Number	Length	Width	Height	Weight kg[lb]	Mounting	Tested/ Interpolated						
Battery Rack (Loaded with 37 KPM 300 P Batteries)												
3G840/1600SE21	1600[63.0]	840[33.1]	853[33.6]	633[1393]	Rigid Base	UUT#1						
AIP Battery Cabinet (w/ Spectra Charger and 37 KM 30 P Batteries)												
AIP744-0081-20	914[36]	610[24]	1829[72]	323[710]	Rigid Base	UUT#2						
ACS 48V Charger												
ACS14075208416101X	550[21.75]	620[24.5]	368[14.5]	44[96]	Rigid Wall	UUT#5						

Alpha Industrial Power Certified Product Matrix

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