



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.

OSP – 0245 – 10

Check whether application is: NEW RENEWAL

1.0 SMARTRISE ENGINEERING **Gilbert Zogbi**
Manufacturer *Manufacturer's Technical Representative*

8360 Rovana #3, Sacramento, CA 95828
Mailing Address

916-719-0086 E-mail Address
Telephone

2.0 SRA & SRH-SERIES CONTROLLER **ELEVATOR CONTROLLER**
Product Name *Product Type*

SEE ATTACHMENT 1

Product model No (List all unique product identification numbers and/or serial numbers)

General Description: Rigid wall mounted SRA (Traction) and SRH (Hydraulic) elevator control panels. Modifications required to address anomalies observed during the test shall be incorporated in the certified units.

3.0 EQUIPMENTANCHORAGE.COM **JONATHAN ROBERSON, S.E.**
Applicant Company Name *Contact Person*

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709
Mailing Address

(406) 541-EASE (3273) jon@easeco.com
Telephone *E-mail Address*

I hereby agree to reimburse the Office of Statewide Health Planning and Development for the actual costs incurred by the department for review.


Signature of Applicant

March 29, 2012
Date

Principal Engineer
Title

EQUIPMENTANCHORAGE.COM
Company Name



Registered Design Professional Preparing the Report

4.0

EQUIPMENTANCHORAGE.COM

Company Name

Jonathan Roberson, S.E.

Contact Name

S4197

California License Number

5877 Pine Ave, Suite 210, Chino Hills, CA. 91709

Mailing Address

909-606-7622

Telephone

jon@easeco.com

E-mail Address

California Licensed Structural Engineer Review and Acceptance of the Report

5.0

EQUIPMENTANCHORAGE.COM

Company Name

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Anchorage Pre-Approval

6.0

Anchorage is pre-approved under OPA-
(Separate application for anchorage pre-approval is required)

Anchorage is not Pre-approved

Certification Method

70. Testing in accordance with: ICC-ES AC-156 Other (Please Specify):

Analysis

Experience data

Combination of Testing, Analysis, and/or Experience Data (Please Specify):

Testing Laboratory (if applicable)

8.0

Environmental Testing Laboratory, Inc.

Company Name

Brady Richard

Contact Name

11034 Indian Trail, Dallas, TX 75229-3513

Mailing Address

972-247-9657

Telephone

brady@etldallas.com

E-mail:



Approval Parameters

9.0

Design in accordance with ASCE 7-05 Chapter 13: Yes No

Design Basis of Equipment or Components (F_p/W_p) = **1.50**

S_{DS} (Spectral response acceleration at short period) = **2.0g**

a_p (In-structure equipment or component amplification factor) = **2.5**

R_p (Equipment or component response modification factor) = **6.0**

I_p (Importance factor) = **1.5**

z/h (Height factor ratio) = **1.0**

Equipment or Component fundamental period(s) = **N/A**

Building period limits (if any) = **NONE**

Overall dimensions and weight (or range thereof) = **SEE ATTACHMENT 1**

Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: Yes No

Design Basis of Equipment or Components (V/W) =

S_{DS} (Spectral response acceleration at short period) =

S_1 (Spectral response acceleration at 1 second period) =

R (Response modification coefficient) = 1.0

Ω_0 (System overstrength factor) = 1.0

C_d (Deflection amplification factor) = 1.0

I_p (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component fundamental period(s) = Sec

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2007: Yes No

10.0 List of attachments supporting the special seismic certification of equipment or components:

- Test Report Drawings Manufacturer's Catalog
 Calculations Others (Please Specify): ATTACHMENTS 1 & 2

11.0 OSHPD Approval (For Office Use Only)

M. R. Karim

3/30/2012

December 31, 2016

Signature & Date

Approval Expiration Date

M. R. Karim, SHFR

S_{DS} (g) = **2.0** z/h = **1.0**

Name & Title

Special Seismic Certification Valid Up to

Condition of Approval (if any):

SMARTRISE

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT & COMPONENTS

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 1: SEISMIC CERTIFIED COMPONENTS

MANUFACTURER	SMARTRISE ENGINEERING						
PRODUCT LINE	SRA-SERIES AC TRACTION & SRH-SERIES AC HYDRAULIC ELEVATOR CONTROLLERS						
MODEL NO.	CURRENT (A)	VOLTAGE (V)	DIMENSIONS (IN.)			MAX. WT. (LB.)	BASIS
			WIDTH	DEPTH	HEIGHT		
SRH-2020 SRH-SS-72JG	60	200	24	10	30	170	UUT1
SRH-SS-72xG	47 – 114	200	24	10	30	170	Interpolate
SRH-SS-72xG	21 – 96	400	24	10	30	170	Interpolate
SRH-2040 SRH-SS-72NG	114	200	24	10	30	170	UUT2
SRA-2027	27	200	30	14	36	220	UUT3
SRA-20xx	21 – 88	200	30	14	36	232	Interpolate
SRA-2088	88	200	30	14	36	232	UUT4
SRA-4027	27	400	30	14	36	171	UUT-5
SRA-4034	34	400	30	14	36	216	Interpolate
SRA-4041	41	400	30	14	36	216	Interpolate
SRA-4052	52	400	30	14	36	216	Interpolate
SRA-4065	65	400	30	14	36	216	UUT-6
STRUCTURAL FEATURES	Enclosures are NEMA / UL Type 1 & Type 12 steel carbon construction.						
QUALIFIED MOUNTING	Wall Mounted: components are Seismically Qualified when the unit is anchored to a building wall or partition.						
QUALIFIED SUBASSEMBLIES	200V and 400V, Control boards, power supply, soft start, drives, contactors, terminals, relays, circuit breakers, and additional components required to form a complete hydraulic/traction elevator control system. See Table 2						
NOTES	<ul style="list-style-type: none"> • AC traction elevator controller. 3-phase output; 1- or 3-phase input; 50/60Hz.; • Class 200v labeling used for main line 208VAC-240VAC. • Class 400v labeling used for main line 380 VAC -480VAC. • MODEL NO.: "xx" in the model numbers listed above represent variable characters that represent the amperage rating of the inverter within the controller • UUT#: Indicates that a test specimen matching these characteristics was tested. • Interpolate: indicates a model that was not specifically tested, and by which seismic qualification was established through evaluation of testing of other, similar models in the product line. 						

SMARTRISE

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT & COMPONENTS

ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

TABLE 2: SUBASSEMBLIES

Manufacturer	Product Series	Model	Dimensions (in)			Max. Wt. (kg)	Notes
			Depth	Width	Height		
Soft Starter							
Sprecher + Schuh	PCEC	51A (10HP@208V, 50HP@575V)	5"	7"	5"	2.5	
		64A (20HP@208V, 60HP@575V)	5"	7"	5"	2.5	UUT1
		74A (20HP@208V, 60HP@575V)	6"	10"	8"	4.5	
		104A (30HP@208V, 100HP@575V)	6"	10"	8"	4.5	
		147A (40HP@208V, 150HP@575V)	6"	10"	8"	6	UUT2
Drive							
Magnetek Elevator	HPV 900 AC Elevator Drive	27A, 200V	9"	9"	12"	10	UUT3
		31A, 200V	9"	9"	12"	10	
		41A, 200V	12"	9"	20"	32	
		52A, 200V	12"	9"	20"	32	
		75A, 200V	12"	9"	20"	32	
		88A, 200V	12"	9"	20"	32	UUT4
		27A, 400V	9"	9"	12"	10	UUT5
		34A, 400V	12"	9"	20"	32	
		41A, 400V	12"	9"	20"	32	
		52A, 400V	12"	9"	20"	32	
		65A, 400V	12"	9"	20"	32	UUT6
Power Supply							
Phoenix Contact	Quint	120W	5"	2"	5"	0.45	UUT1, UUT2, UUT3, UUT4, UUT5, UUT6
Contactors							
Sprecher + Schuh	CA7	12A	2"	3"	3.5"	0.45	UUT3, UUT4
		37A	2"	3"	3.5"	0.45	
		60A	3"	5"	5.5"	0.45	UUT3, UUT5
		72A	3"	5"	5.5"	0.45	UUT6
		85A	3"	5"	5.5"	0.45	UUT4
Transformer							
Pacific Transformer	31725	1000VA	5"	6"	4"	9	UUT1, UUT2, UUT3, UUT4, UUT5, UUT6
Circuit Breaker							
Sprecher + Schuh	L9	L9-6/2/D	1.5"	3"	4"	0.2	UUT1, UUT2, UUT3, UUT4, UUT5, UUT6
Sprecher + Schuh	L8	L8-6/1/D	0.75"	3"	4"	0.1	UUT1, UUT2, UUT3, UUT4, UUT5, UUT6

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SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT & COMPONENTS

ATTACHMENT 2: TEST SPECIMEN

UUT-1		SRH-2020				
MANUFACTURER:	SMARTRISE ENGINEERING / Satie North America					
MODEL:	SRH-SS-72JG (Formerly SRH-2020) AC hydraulic elevator controller					
IDENTIFICATION:	N/A					
DESCRIPTION:	200V, Control boards, power supply, soft start, contactors, terminals, relays, circuit breakers, and additional components required to form a complete hydraulic/traction elevator control system. See Table 2.					
MOUNTING:	WALL					
UUT PROPERTIES:						
DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		X-Axis	Y-Axis	Z-Axis
24	10	30	170	N/A	N/A	N/A

UUT-2		SRH-2040				
MANUFACTURER:	SMARTRISE ENGINEERING / Satie North America					
MODEL:	SRH-SS-72NG (Formerly SRH-2040) AC hydraulic elevator controller					
IDENTIFICATION:	N/A					
DESCRIPTION:	200V, Control boards, power supply, soft start, contactors, terminals, relays, circuit breakers, and additional components required to form a complete hydraulic/traction elevator control system. See Table 2.					
MOUNTING:	WALL					
UUT PROPERTIES:						
DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		X-Axis	Y-Axis	Z-Axis
24	10	30	170	N/A	N/A	N/A

SRH-2040 1ST TRIAXIAL TEST
SRH-2020 2ND TRIAXIAL TEST



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SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT & COMPONENTS

ATTACHMENT 2: TEST SPECIMEN

UUT-3	SRH-2027					
MANUFACTURER:	SMARTRISE ENGINEERING / Satie North America					
MODEL:	SRA-2027 AC traction elevator controller					
IDENTIFICATION:	N/A					
DESCRIPTION:	200V, Control boards, power supply, drive, contactors, terminals, relays, circuit breakers, and additional components required to form a complete hydraulic/traction elevator control system. See Table 2.					
MOUNTING:	WALL					
UUT PROPERTIES:						
DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		X-Axis	Y-Axis	Z-Axis
30	14	36	220	N/A	N/A	N/A

UUT: 4	SRA-2088					
MANUFACTURER:	SMARTRISE					
MODEL:	SRA-2088 AC traction elevator controller					
IDENTIFICATION:	N/A					
UUT FUNCTION:	AC traction elevator controller					
DESCRIPTION:	200V, Control boards, power supply, drive, contactors, terminals, relays, circuit breakers, and additional components required to form a complete hydraulic/traction elevator control system. See Table 2.					
MOUNTING:	WALL					
UUT PROPERTIES:						
DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		X-Axis	Y-Axis	Z-Axis
30	14	36	232	N/A	N/A	N/A



SRA-2088



SRA-2027

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ATTACHMENT 2: TEST SPECIMEN

UUT-5	SRA-4027
MANUFACTURER:	Smartrise Engineering
MODEL:	SRA-4027 (HPV900 -4027-2E1-01)
IDENTIFICATION:	BAT0014
UUT FUNCTION:	AC traction elevator controller
DESCRIPTION:	400V, Control boards, power supply, soft start, contactors, terminals, relays, circuit breakers, and additional components required to form a complete traction elevator control system. See Table 2.
MOUNTING:	WALL

UUT PROPERTIES:

Dimensions (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
Width	Depth	HEIGHT		X-Axis	Y-Axis	Z-Axis
30 3/8	14 1/4	36 1/2	171	N/A	N/A	N/A



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SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT & COMPONENTS

ATTACHMENT 2: TEST SPECIMEN

UUT-6	SRA-4065
MANUFACTURER:	Smartrise Engineering
MODEL:	SRA-4065 (HPV900 -4065-2E1-01)
IDENTIFICATION:	BET0078
UUT FUNCTION:	AC traction elevator controller
DESCRIPTION:	400V, Control boards, power supply, soft start, contactors, terminals, relays, circuit breakers, and additional components required to form a complete traction elevator control system. See Table 2.
MOUNTING:	WALL

UUT PROPERTIES:

DIMENSIONS (in.)			WEIGHT (lb.)	LOWEST RESONANT FREQUENCY (Hz.)		
WIDTH	DEPTH	HEIGHT		X-Axis	Y-Axis	Z-Axis
30	14	36	216	N/A	N/A	N/A

