Facilities Development Division www.oshpd.ca.gov/fdd
400 R Street. Suite 200, Sacramento, California 95811-6213 Phone (916) 440-8300 Fax (916) 654-2973

APPLICATION FOR PREAPPROVAL

SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.

OSP–0067–10

Check whether application is: NEW [ ] RENEWAL [X]

1.0

Rauland-Borg Corporation
Manufacturer

Carl Cox
Manufacturer's Technical Representative

1802 West Central Road, Mt. Prospect, IL 60056
Mailing Address

847-590-7100
Telephone

tom.obrien@rauland.com
E-mail Address

2.0

Responder Nurse Call Station Cabinets
Product Name

System Cabinets
Product Type

Responder 4000, Responder IV, & Responder 5 in NC2828 or 351102 System Cabinets
Product Model No (List all unique product identification numbers and/or serial numbers)

General Description: Responder nurse call stations consist of wall-mounted terminal cabinets containing the control and termination modules, network equipment, and power required to operate the stations.

3.0

Rauland-Borg Corporation
Applicant Company Name

Carl Cox
Contact Person

1802 West Central Road, Mt. Prospect, IL 60056
Mailing Address

847-590-7100
Telephone

tom.obrien@rauland.com
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

1/5/2011
Date

Vice-President Engineering
Title

Rauland-Borg Corporation
Company Name

Registered Design Professional Preparing the Report

4.0

Forell/Elsesser Engineers, Inc.
Company Name

Marco Scanu, SE | S4454
Contact Name | *California License Number*

160 Pine St., 6th Flr., San Francisco, CA 94111
Mailing Address

415-837-0700 | m.scanu@forell.com
Telephone | *E-mail Address*

California Licensed Structural Engineer Review and Acceptance of the Report

5.0

Forell-Elsesser Engineers, Inc.
Company Name

Marco Scanu, SE | S4454
Contact Name | *California License Number*

160 Pine St., 6th Flr., San Francisco, CA 94111
Mailing Address

415-837-0700 | m.scanu@forell.com
Telephone | *E-mail Address*

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

7.0

☒ *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

Stork Garwood Laboratories | Don Bennett
Company Name | *Contact Name*

7829 Industry Avenue, Pico Rivera, CA 90660
Mailing Address

562-949-2727 | don.bennett@us.stork.com
Telephone | 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) = 1.56g

S_{DS} (Spectral response acceleration at short period) = 2.08g

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) = N/A

Overall dimensions and weight (or range thereof) = 14.375"–28"W x 4.5–4.75"D x 28"H x 30–105 lbs

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*	☒ *Other (Please Specify):*	SE Acceptance Letter, Product Range Summary, CAN2-1708A.5 & AC156 Requirements Checklist

11.0 *OSHPD Approval (For Office Use Only)*

1/5/2010	**December 31, 2016**
Signature & Date	*Approval Expiration Date*
Chris Tokas, SHFR	S_{DS} (g) = **2.08** z/h = **1.0**
Name & Title	*Special Seismic Certification Valid Up to*

Condition of Approval (if any):

Rauland-Borg - Responder Call Stations
Product Range Summary

	Width	Depth	Height	Max. Service Weight	Notes
Responder 5					
NC2828 Cabinet	28.0"	4.5"	28.0"	105 lbs	UNIT 1
351102 Cabinet	14.38"	4.75"	28.0"	105 lbs	
Responder IV					
NC2828 Cabinet	28.0"	4.5"	28.0"	105 lbs	
351102 Cabinet	14.38"	4.75"	28.0"	105 lbs	UNIT 2
Responder 4000					
NC2828 Cabinet	28.0"	4.5"	28.0"	105 lbs	UNIT 3
351102 Cabinet	14.38"	4.75"	28.0"	105 lbs	

Anchorage

Rauland-Borg call station cabinets are rigidly anchored to a wall or other vertical mounting surface. Lateral forces are resisted by shear membrane action in the light gauge metal exterior sheathing. Shear is transfered to adjacent metal panels through screws into light gauge metal angle frames, then to light gauge bent metal mounting brackets then through anchorage to wall studs and/or backing.