



APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

APPLICATION NO.
OSP – 0143-10

Check whether application is: NEW RENEWAL

1.0	<i>Manufacturer</i> ThyssenKrupp Elevator Corp.	<i>Manufacturer's Technical Representative</i> Doug Henderson
	<i>Mailing Address</i> 9280 Crestwyn Hills Drive, Memphis, TN 38125	
	<i>Telephone</i> 731-376-3139	<i>E-mail Address</i> doug.henderson@thyssenkrupp.com

2.0	<i>Product Name</i> TAC-20/TAC-22 & TAC-50-04 Controllers	<i>Product Type</i> Elevator Controllers
	<i>Product model No (List all unique product identification numbers and/or serial numbers)</i> TAC-20/TAC-22 mounted to a Hydraulic Power Unit & TAC-50-04 Controller	
	<i>General Description: TAC-20 & TAC-22 only have differences in software.</i>	
	TAC-20 & TAC-22: Hydraulic elevator controllers attached to a rigid base mounted hydraulic power unit; TAC-50-04: Rigid base mounted traction elevator controller.	

3.0	<i>Applicant Company Name</i> ThyssenKrupp Elevator Corp.	<i>Contact Person</i> Guy Buckman
	<i>Mailing Address</i> 940 Riverside Parkway, Ste. 20 West Sacramento, CA 95605	
	<i>Telephone</i> 916-376-8700	<i>E-mail Address</i> Guy.buckman@thyssenkrupp.com

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
District Manager

Title

12/7/2010

Date
ThyssenKrupp Elevator

Company Name

1/A



Registered Design Professional Preparing the Report

4.0 **EDDINGTON ENGINEERING**
Company Name

Ronald Eddington S3376
Contact Name *California License Number*

6001 Helva Lane, Carmichael, CA. 95608
Mailing Address

916-359-5300 eddingtoneengineering@comcast.net
Telephone *E-mail Address*

California Licensed Structural Engineer Review and Acceptance of the Report

5.0 Eddington Engineering
Company Name

Ronald Eddington S3376
Contact Name *California License Number*

6001 Helva Lane, Carmichael, CA. 95608
Mailing Address

916-359-5300 eddingtoneengineering@comcast.net
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

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 Wyle Laboratories Rod Thornberry
Company Name *Contact Name*

7800 Highway 20 West, Huntsville, AL., 35806
Mailing Address

256-716-4229 Rod.Thornberry@Wyle.com
Telephone *E-mail:*

2/A



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) = 1.08g

S_{DS} (Spectral response acceleration at short period) = 1.5g

a_p (In-structure equipment or component amplification factor) = 1.0

R_p (Equipment or component response modification factor) = 2.5

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1.0

Equipment Natural Frequencies = TAC20: Vert. = none, Side-Side = 6.6 Hz, Front-Back = 12.5 Hz

TAC50: Vert. = none, Side-Side = 11 Hz, Front-Back = 9.7 Hz

Building period limits (if any) = None

Overall dimensions and weight = TAC20: Width = 33", Depth = 12", Height = 33", Weight = 210lbs

TAC50: Width = 33", Depth = 23.5", Height = 84", Weight = 1113lbs

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):

11.0 OSHPD Approval (For Office Use Only)

<p style="text-align: right;"><i>Chris Tokas</i> Signature & Date Chris Tokas, SHFR Name & Title</p>	<p>1/11/11</p>	<p>December 31, 2013 Approval Expiration Date S_{DS} (g) = 1.50 z/h = 1.0 Special Seismic Certification Valid Up to</p>
<p>Condition of Approval (if any):</p>		



Test Set-up:

UUT 1 (left): TAC-20 attached to rigid base mounted hydraulic power unit.

UUT 2 (right): TAC-50-4 mounted at base.