



# APPLICATION FOR PREAPPROVAL SPECIAL SEISMIC CERTIFICATION OF EQUIPMENT AND COMPONENTS

For Office Use Only

<b>APPLICATION NO.</b>
<b>OSP – 0036-10</b>

Check whether application is: NEW  RENEWAL

1.0 General Electric Zenith Controls Ozgur Cantez  
 Manufacturer Manufacturer's Technical Representative  
 830 W 40 th St., Chicago, IL 60609

Mailing Address

(773) 299-6720

ozgur.cantez@ge.com

Telephone

E-mail Address

2.0 Paralleling Switchgear Control Two Bay Cabinet 101/102  
 Product Name Product Type

See Attachment #1 (Only 1-model of switchgear control listed in Attachment #1 to be certified)

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

General Description:

Paralleling Switchgear integrates the operation of onsite generators, the connection to the incoming utility source(s), the operation and/or control of automatic transfer switches, operation of generator controls, and distribution equipment into a fully functioning system. A paralleling switchgear, in addition to having the functionality of an ATS as basic, also performs multi source paralleling (multiple utilities, multiple generators, multiple generators to single utility etc.), peak shaving and base loading during dedicated times or based on facility electric load.

3.0 General Electric Zenith Controls Ozgur Cantez  
 Applicant Company Name Contact Person  
 830 W 40 th St., Chicago, IL 60609

Mailing Address

(773) 299-6720

ozgur.cantez@ge.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

2/16/2010

Date

Systems Engineer  
Title

General Electric Zenith Controls  
Company Name



**Registered Design Professional Preparing the Report**

4.0 Mason West, Inc.

_____		<i>Company Name</i>
Jimmy Wong	_____	S 4744
	<i>Contact Name</i>	<i>California License Number</i>
1601 E Miraloma Ave, Placetaie, CA 92870		
<i>Mailing Address</i>		
(714) 630-0701	_____	jwong@masonwest.com
	<i>Telephone</i>	<i>E-mail Address</i>

**California Licensed Structural Engineer Review and Acceptance of the Report**

5.0 Mason West, Inc.

_____		<i>Company Name</i>
Jimmy Wong	_____	S 4744
	<i>Contact Name</i>	<i>California License Number</i>
1601 E Miraloma Ave, Placetaie, CA 92870		
<i>Mailing Address</i>		
(714) 630-0701	_____	jwong@masonwest.com
	<i>Telephone</i>	<i>E-mail Address</i>

**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 Clark Dynamic Test Laboratory \_\_\_\_\_ John Antenucci \_\_\_\_\_

*Company Name* *Contact Name*

1801 Route 51, Jefferson Hills, PA 15025

*Mailing Address*

412-382-7173 \_\_\_\_\_ jrantenucci@clarkdynamic.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 ( $F_p/W_p$ ) = 1.44g

$S_{DS}$  (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) = See Attachment #1

Building period limits (if any) = N/A

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

$\Omega_0$  (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: Attachment #1)

11.0 OSHPD Approval (For Office Use Only)

Signature & Date

Chris Tokas, SHFR

Name & Title

3/1/2010

December 31, 2013

Approval Expiration Date

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

Special Seismic Certification Valid Up to

Condition of Approval (if any):

**Attachment #1 – Equipment Data**

Test Report	Equipment Name	Equipment Model	Dimensions	Weight (lbs.)	SDS (g)	Resonance Frequency		
						SS (Hz)	FB (Hz)	V (Hz)
T4241	GE-Paralleling Switchgear Control	Two Bay Cabinet 101 & 102	60"Wx30"Dx90"H	1,600	2.0	9.4	11.7	36.0

**NOTE**

1. All information is for base mounted installation ONLY & approval is ONLY valid for base mounted configuration.