APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)	OFFICE USE ONLY
,	APPLICATION #: OSP – 0613
OSHPD Special Seismic Certification Preapproval (OSP)	
Type: New Renewal	
Manufacturer Information	
Manufacturer: ABB Zenith Controls	
Manufacturer's Technical Representative: Yogesh Patel	
Mailing Address: 1555 Scott St, Senatobia, MS 38668	
Telephone: 224-279-7013 Email: Voges	hkumar.patel@us.abb.com
Product Information	MA
Product Name: ZTX, ZTG(D), ZTS(D) (with TruONE panel)	The state of the s
Product Type: Automatic Transfer Switch OSP-0613	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Product Model Number: See Certified Product List Table 1 (List all unique product identification numbers and/or part numbers) hammad Alia	ari WWW
General Description: Transfer switches that provide manual / autom	
backup power source (30A to 1200A).	
Mounting Description: Rigid floor or wall mounted	
	20
Applicant Company Name: W.F. Gundy & Associates Inc. DING	ODE.
Applicant Company Name: W.E. Gundy & Associates, Inc.	
Contact Person: _Travis Soppe	
Mailing Address: _1199 Shoreline Drive, Suite 310, Boise Idaho 83702	
Telephone: (208) 342-5989 Ext.115 Email: <u>tsoppe</u>	@wegai.com
I hereby agree to reimburse the Office of Statewide Health Faccordance with the California Administrative Code, 2016.	Planning and Development review fees in
Signature of Applicant:	Date: 06/25/2019
Title: President Company Name: W.E. G	Gundy & Associates, Inc.

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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: _W.E. Gundy & Associates, Inc.
Name: Travis Soppe, SE California License Number: S6115
Mailing Address: 1199 Shoreline Dr, Ste 310, Boise, ID 83702
Telephone: (208) 342-5898 Ext. 115 Email: tsoppe@wegai.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:
BY: Mohammad Aliaari
Testing Laboratory DATE: 01/20/2021
Company Name: Clark Dynamic Test Laboratory, Inc.
Contact Name: Devon Lohr
Mailing Address: 1801 Route 51, Jefferson Hills, PA 15025
Telephone: _(412) 387-1027



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01/20/2021

OSP-0613



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) = 1.50
S _{DS} (Design spectral response acceleration at short period, g) = 2.00
a _p (In-structure equipment or component amplification factor) =
R _p (Equipment or component response modification factor) = 6.0
Ω_0 (System overstrength factor) = 2.0
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = 1.0
Equipment or Component Natural Frequencies (Hz) = See Attachments
Overall dimensions and weight (or range thereof) = 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) =
Ω₀ (System overstrength factor) = By: Mohammad Aliaari
C _d (Deflection amplification factor) =
I_p (Importance factor) = 1.5 DATE: 01/20/2021
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, 2015: Yes No
List of Attachments Supporting Special Seismic Certification
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Signature: Date: Date: Date:
Print Name: Mohammad Aliaari Title: Senior Structural Engineer
Special Seismic Certification Valid Up to : $S_{DS}(g) = \underline{2.00}$ $z/h = \underline{1}$
Condition of Approval (if applicable):

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ABB ZTX, ZTG(D), ZTS(D) AUTOMATIC TRANSFER SWITCHES WITH TruONE SPECIAL SEISMIC CERTIFICATION PRODUCT LINE MATRIX



ID Number ¹⁾	Ampre	Pole	NEMA Rating	Enclosu	ire Dimensio	ons (in)	Service	Representative		
ID Number	Rating	role	NEWA Kating	Width	Depth	Height	Weight (lbs)	UUT		
TABLE 1: WALL MOUNTED ATS PRODUCT LINE - MAX $S_{DS} = 2.5$ at $z/h = 0$ and $S_{DS} = 2.0$ at $z/h = 1.0$										
ZGOG3XX32	200	3	3R	24.0	12.3	32.0	96	UUT-1		
ZTX, ZTG(D), ZTS(D) Series	30-200	2/3/4	1/3R/4/12	24.0	12.0-12.3	32.0	95 - 125	interpolated		
ZTX, ZTG(D), ZTS(D) Series	260	2/3/4	1/3R/4/12	24.0	14.0-14.3	46.0	100-140	interpolated		
ZTX, ZTG(D), ZTS(D) Series	400	2/3/4	1/3R/4/12	24.0	14.0-14.3	46.0	105-142	interpolated		
ZGOK3SX12	400	4	1	24.0	14.0	46.0	142	UUT-2		
TABLE 2: FLOOR MO	DUNTED AT	S PRODU	CT LINE - MAX	$X S_{DS} = 2.5 at$	$\mathbf{z}/\mathbf{h} = 0$ and	$S_{DS} = 2.0 c$	at z/h = 1.0			
ZGOL3XX12	600	4	DSP-4613	28.0	19.5	54.0	252	UUT-3		
ZTX, ZTG(D), ZTS(D) Series	600	2/3/4	1/3R/4/12	28.0	19.5-19.8	54.0	210 - 252	interpolated		
ZTX, ZTG(D), ZTS(D) Series	80 <mark>0 - 12</mark> 00	3/4	1/3R/4/12	40.0	19.5-19.8	74.0	435 - 478	interpolated		
ZGDP3SX32	1200	4	3R	40.0	<u>1</u> 9.8	74.0	478	UUT-4		
	V/////V	/4/1/				•	•			

Notes:

ZTX - ZXOxxxxxx

ZTG(D) - ZGOxxxxxx / ZGDxxxxxx

ZTS(D) - ZSOxxxxxx / ZSDxxxxxx

ZXO - ZTX Open transition with L2 controller

ZGO - ZTG Open transition with L3

ZGD - ZTG(D) Delay transition with L3 controller

ZSO - ZTS Open transition with L4 controller

ZSD - ZTS(D) Delay transition with L4 controller

¹⁾ All components are manufactured by ABB. The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units.

²⁾ Enclosures are constructed of welded carbon steel.

³⁾ The ZTX/ZTG(D)/ZTS(D) series products are represented with the following ID numbers:

⁴⁾ The ZTX/ZTG(D)/ZTS(D) automatic transfer switches (ATS) are of nearly identical construction with minor control differences listed below:

ABB ZTX, ZTG(D), ZTS(D) AUTOMATIC TRANSFER SWITCHES WITH TruONE SPECIAL SEISMIC CERTIFICATION SUBCOMPONENT MATRIX



Subcomponent	Decemention	Manufacturer	Genera	l Dimensio	ons (in)	Weight	Representative	
ID Number ¹⁾	Description	Manufacturer	Width	Depth	Height	(lbs)	UUT	
OXA200U3X2QB-ZE	200A 3-Pole open transition power panel	ABB	13.0	7.2	15.4	32	UUT-1	
OXx260Uxxxxx-ZE	260A 2/3/4-Pole open/delay transition power panel	ABB	12.8-17.9	7.2-8.4	14.8-20.8	28 - 39	interpolated	
OXx400Uxxxxx-ZE	400A 2/3/4-Pole open/delay transition power panel	ABB	15.1-20.2	7.2-8.4	14.8-20.8	32 - 52	interpolated	
OXA400U3S3QB-ZE	400A 4-Pole open transition power panel	ABB	20.2	7.2	18.9	45	UUT-2	
	Table 4: Automatic Transfer Switch Power	r Panel Assem	bly - Floo	r Mounte	d		-	
OBX600U3S3QB-ZE	600A 4-Pole open transition power panel	ABB	17.6	8.4	18.9	45	UUT-3	
OXx600Uxxxxx-ZE	600A 2/3/4-Pole open/delay transition power panel	ABB	15.1-20.2	7.2-8.4	14.8-20.8	32 - 52	interpolated	
OXx800-1200Uxxxxx-ZE	800-1200A 3/4-Pole open/delay transition power panel	AliaABB	23.5-28.1	7.2-8.4	14.1-20.9	95 - 127	interpolated	
OXA1200U3S3QB-ZE	1200A 4-Pole delay transition power panel	ABB	28.0	8.4	19.2	127	UUT-4	
	Table 5: Electrical Panel / Controler Con	nponents - Wa	<mark>ll / F</mark> loor 1	Mounted				
OXAMI1-L3	Open transition Level 3 HMI	ABB	4.0	0.8	6.5	2.0	UUT-1, 3	
OXAMI1-L2	Open transition Level 2 HMI	ABB	4.0	0.8	6.5	2.0	interpolated	
OXBMI1-L3	Delay transition Level 3 HMI	G ABB	4.0	0.8	6.5	2.0	interpolated	
OXBMI1-L4	Delay transition Level 4 HMI	ABB	4.0	0.8	6.5	2.0	inerpolated	
OXAMI1-L4	Open transition Level 4 HMI	ABB	4.0	0.8	6.5	2.0	UUT-2, 4	

Notes:

The "xxxx" designation at the end of the model number provides differences in control software for the power panels.

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with 4 - 3/8" grade 5 bolts





Manufacturer: ABB

Product Line: ZTX, ZTG(D), ZTS(D) Automatic Transfer Switch

Component ID: ZGOG3XX32 | Test Report Component ID: OXA200U3X2QB-ZE*

UUT Function: Manual/Automatic power switching from utility power to emergency power.

UUT Description: 200A 3-Pole Automatic Transfer Switch with OXA200U3X2QB-ZE Power Panel,

OXAMI1-L2 open transition level 3 HMI controller, and NEMA 3R enclosure.

Test Location: Clark Dynamic Test Laboratory, Inc., PA | **Test Date:** April-May 2019

UUT PROPERTIES

	Weight (lb) 96 Building Co		Dimensions (inches)						y (Hz)
		Width	De	pth	Н	eight	FB	SS	V
	96	24.0	12	2.3	3	2.0	N/A	N/A	N/A
			SEISM	IC TEST	PARAM	ETERS			
	Building Code / Test Criteria		$S_{DS}(g)$	z / h	I_P	$A_{FLX-H}(g)$	A _{RIG-H} (g)	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
		·		·	·			· ·	i i

Building Code / Test Criteria	$S_{DS}(g)$	z/h	I_P	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CDC 2010 / ICC ES A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2019 / ICC-ES AC156	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained fuctional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. *The lab report identified the system using the internal component number not the complete system coponent identification number.

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with 4 - 1/2" grade 5 bolts





Manufacturer: ABB

Product Line: ZTX, ZTG(D), ZTS(D) Automatic Transfer Switch

Component ID: ZGOK3SX12 | Test Report Component ID: OXA400U3S3QB-ZE*

UUT Function: Manual/Automatic power switching from utility power to emergency power.

UUT Description: 400A 4-Pole Automatic Transfer Switch with OXA400U3S3QB-ZE Power Panel, OXAMI1-L4 open transition level 3 HMI controller, and NEMA 1 enclosure.

Test Location: Clark Dynamic Test Laboratory, Inc., PA | **Test Date:** April-May 2019

UUT PROPERTIES

Weight (lb)		Dimensions (inches)						Natural Fequency (Hz)			
	Width	De	pth	Height		FB	SS	V			
142	24.0	14	1.0	46.0		N/A	N/A	N/A			
	SEISMIC TEST PARAMETERS										
Building Co	de / Test Criteria	$S_{DS}(g)$	z / h	I_P	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$			
CBC 2019 / ICC-ES AC156		2.00	1.0	1.5	3.20	2.40					
CBC 2019 /	ICC-ES AC130	2.50	0.0	1.5			1.67	0.67			

Note: The unit was full of contents during testing and remained fuctional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. *The lab report identified the system using the internal component number not the complete system coponent identification number.

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 1/2" grade 5 bolts



Manufacturer: ABB

Product Line: ZTX, ZTG(D), ZTS(D) Automatic Transfer Switch

Test Report Component ID: OBX600U3S3QB-ZE* Component ID: ZGOL3XX12

UUT Function: Manual/Automatic power switching from utility power to emergency power.

UUT Description: 600A 4-Pole Automatic Transfer Switch with OBX600U3S3QB-ZE Power Panel,

OXAMI1-L3 open transition level 3 HMI controller, and NEMA 1 enclosure.

Test Location: Clark Dynamic Test Laboratory, Inc., PA **Test Date:** April-May 2019

UUT PROPERTIES

Waight (lb)		Dimensions (inches)		Natur	al Fequency	y (Hz)				
weight (10)	Weight (lb) Width Depth	Height	FB	SS	V					
252	28.0	19.5	54.0	25.7	18.5	>33				
	SEISMIC TEST PARAMETERS									

SEISMIC TEST PAKAMETEKS

Building Code / Test Criteria	$S_{DS}(g)$	z / h	I_{P}	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CDC 2010 / ICC ES A C156	2.00	1.0	1.5	3.20	2.40		
CBC 2019 / ICC-ES AC156	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained fuctional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. *The lab report identified the system using the internal component number not the complete system coponent identification number.

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with 4 - 1/2" grade 5 bolts



Manufacturer: ABB

Product Line: ZTX, ZTG(D), ZTS(D) Automatic Transfer Switch

Component ID: ZGDP3SX32 | Test Report Component ID: OXA1200U3S3QB-ZE*

UUT Function: Manual/Automatic power switching from utility power to emergency power.

UUT Description: 1200A 4-Pole Automatic Transfer Switch with OXA1200U3S3QB-ZE Power Panel, OXAMI1-L4 open transition level 4 HMI controller, and NEMA 3R enclosure.

Test Location: Clark Dynamic Test Laboratory, Inc., PA | **Test Date:** April-May 2019

UUT PROPERTIES

Weight (lh)		Dimensions (inches)		Natural Fequency (Hz)			
weight (10)	Weight (lb) Dimensions (inches) Width Depth 478 40.0 19.8	Height	FB	SS	V		
478	40.0	19.8	74.0	25.7	13.8	>33	
		SEISMIC TEST	DADAMETEDS				

SEISMIC TEST PARAMETERS

Building Code / Test Criteria	$S_{DS}(g)$	z/h	I_P	$A_{FLX-H}(g)$	$A_{RIG\text{-}H}\left(g\right)$	$A_{FLX-V}\left(g\right)$	$A_{RIG-V}(g)$
CBC 2019 / ICC-ES AC156	2.00	1.0	1.5	3.20	2.40		
CBC 2019 / ICC-ES AC130	2.50	0.0	1.5			1.67	0.67

Note: The unit was full of contents during testing and remained fuctional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 Test. *The lab report identified the system using the internal component number not the complete system coponent identification number.