APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0613

HCAI 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: yogeshkumar.patel@us.abb.com

Product Information

Product Name: TrueONE ATS

Product Model Number(s): See attachments

Product Category: Emergency and Standby Power Systems

Product Sub-Category: Automatic Transfer Switches

General Description: Transfer switches that provide manual / automatic power switching from a primary source to backup power source (30A to 1200A). Equipment is manufactured and sold by ABB and also Brand Labeled by Caterpillar.

Mounting Description: Base/Wall Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: W.E. Gundy & Associates, Inc.

Contact Person: Travis Soppe

Mailing Address: 1199 Shoreline Drive Suite 310, Boise, ID 83702

Telephone: (208) 342-5989 Email: tsoppe@wegai.com

Title: President

REVIEWED FOR CODE COMPLIANCE HCAi OSP-0613 BY: DATE: 09/03/2026 CALIFORNIA BUILDING CODE 2025

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: W.E. GUNDY & ASOCIATES INC.

Name: Travis Soppe California License Number: S6115

Mailing Address: P.O. Box 9121, Boise, ID 83707

Telephone: (208) 342-5989 Email: tsoppe@wegai.com

Certification Method

☐ GR-63-Core ☒ ICC-ES AC156 ☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3

☐ Other (Please Specify):

Testing Laboratory

Company Name: CLARK TESTING LABORATORY, INC.

Contact Person: Devon Lohr

Mailing Address: 1801 Route 51, Jefferson Hills PA 15025

Telephone: (412) 387-1001 Email: dlohr@clarktesting.com

Company Name: UNIVERSITY OF BUFFALO (SEESL)

Contact Person: Yushan Fu

Mailing Address: 212 Ketter Hall, Buffalo NY 14260

Telephone: (716) 645-4377 Email: yushanfu@baffalo.edu

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Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal	(A Flx-H), g=	3.20	(A Rig-H), g=	2.15
Vertical	(A Flx-V), g=	1.67	(A Rig-V), g=	0.67

S_{DS} (Design spectral response acceleration at short period, g) = 2.5 @ z/h = 0; 2.0 @ z/h = 1

Hf (Force amplification height factor) = 1 @ z/h = 0; 3.5 @ z/h = 1

Ru (Structure ductility redution factor) = 1 @ z/h = 0; 1.3 @ z/h = 1

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 0 and 1

HCAI Approval (For Office Use Only) - Approval Expires on 09/03/2032

Date: 9/3/2026

Name: Mohammad Karim Title: Supervisor, Health Facilities

Condition of Approval (if applicable):

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TABLE 1	ABB ZTX, ZTG(D), ZTS(D) ATS WITH TruONE SPECIAL SEISMIC CERTIFICATION PRODUCT LINE MATRIX							
ID Number[1,4,5]	Ampre Rating	Poles	NEMA Rating	[1]Enclosure Dimensions (in)			Weight (lbs)	Representative UUT[3]
				Width	Depth	Height		
WALL MOUNTED CONFIGURATIONS								
ZGOA3XX12	30	4	1	18.0	10.0	31.0	81	UUT_y-1
ZTX, ZTG(D), ZTS(D) Series	30-200	2 / 3 / 4	1	18.0	10.0	31.0	80 - 95	interpolated
ZGOG3XX32	200	3	3R	24.0	12.3	32.0	96	UUT_z-1
ZTX, ZTG(D), ZTS(D) Series	30-200	2 / 3 / 4	1 / 3R / 4 / 12	18 - 24	10 - 12.3	31 - 32	80 - 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_z-2
FLOOR MOUNTED CONFIGURATIONS								
ZGOL3XX12	600	4	1	28.0	19.5	54.0	252	UUT_z-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	800 - 1200	3 / 4	1 / 3R / 4 / 12	40.0	19.5-19.8	74.0	435 - 478	interpolated
ZGDP3SX32	1200	4	3R	40.0	19.8	74.0	478	UUT_z-4

Notes:

[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 with exception to the smallest 30-200A wall mounted configurations that can be mounted in either a NEMA 1 / 3R / 4 / 12 welded carbon steel or NEMA 1 bolted carbon steel enclosure (UUT_y-1).

[3] Subscript indicates the test report in which the units were qualified: y - SEESL 2026-05 / z - JID 19-00274 Rev 0

[4] The ZTX/ZTG(D)/ZTS(D) series products are represented with the following ID numbers:
ZTX - ZXOxxxxxx
ZTG(D) - ZGOxxxxxx / ZGDxxxxxx
ZTS(D) - ZSAOxxxxxx / ZSADxxxxxx

[5] The ZTX/ZTG(D)/ZTS(D) automatic transfer switches (ATS) are of nearly identical construction with minor control differences listed below:
ZXO - ZTX Open transition
ZGO - ZTG Open transition
ZGD - ZTG(D) Delay transition
ZSAO - ZTS Open transition
ZSAD - ZTS(D) Delay transition

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TABLE 2	ABB ZTX, ZTG(D), ZTS(D) ATS WITH TruONE CATERPILLAR BRANDED PRODUCT LINE SEISMIC CERTIFICATION MATRICES	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

ABB Identification	Caterpillar Identification	Representative UUT
WALL MOUNTED CONFIGURATOINS		
ZGOA3XX12	CGOA3XX12	UUT_y-1
ZGOG3XX32	CGOG3XX32	UUT_z-1
ZTX/ZTG(D)/ZTS(D)-30 to 200	CX/CG(D)/CS(D)-30 to 200	interpolated
ZTX/ZTG(D)/ZTS(D)-260	CX/CG(D)/CS(D)-260	interpolated
ZTX/ZTG(D)/ZTS(D)-400	CX/CG(D)/CS(D)-400	interpolated
ZGOK3SX12	CGOK3SX12	UUT_z-2
FLOOR MOUNTED CONFIGURATOINS		
ZGOL3XX12	CGOL3XX12	UUT_z-3
ZTX/ZTG(D)/ZTS(D)-600	CX/CG(D)/CS(D)-600	interpolated
ZTX/ZTG(D)/ZTS(D)-800 to 1200	CX/CG(D)/CS(D)-800 to 1200	interpolated
ZGDP3SX32	CGDP3SX32	UUT_z-4

Notes:

The seismically certified ABB Inc. automatic transfer switches are brand labeled and sold by Caterpillar. This table provides the link between the seismically certified ABB Automatic Transfer Switch product line and the associated brand labeled Caterpillar product offerings.

[1] The CX/CG(D)/CS(D) series products are represented with the following ID numbers:
- CX - CXOxxxxxx
- CG(D) - CGOxxxxxx / CGDxxxxxx
- CS(D) - CSAOxxxxxx / CSADxxxxxx

[2] The CX/CG(D)/CS(D) automatic transfer switches (ATS) are of nearly identical construction with minor control differences listed below:
- CXO - CX Open transition
- CGO - CG Open transition
- CGD - CG(D) Delay transition
- CSAO - CS Open transition
- CSAD - CS(D) Delay transition

[3] Controllers in CAT brand lable units have an added, "-CAT", extension in the part ID.

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TABLE 3	ABB ZTX, ZTG(D), ZTS(D) ATS WITH TruONE SPECIAL SEISMIC CERTIFICATION SUBCOMPONENTS TABLE			WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING
Subcomponent ID Number	Manufacturer	Description	Weight (lbs)	Representative UUT
WALL MOUNTED - ATS CERTIFIED SUBCOMPONENTS				
ATS Switch Power Panel Assembly				
OXA30U3S3QT-ZE	ABB	30A 4-Pole open transition power panel	32	UUT_y-1
OXA200U3X2QB-ZE	ABB	200A 3-Pole open transition power panel	32	UUT_z-1
OXx260Uxxxxx-ZE	ABB	260A 2/3/4-Pole open/delay transition power panel	28 - 39	interpolated
OXx400Uxxxxx-ZE	ABB	400A 2/3/4-Pole open/delay transition power panel	32 - 52	interpolated
OXA400U3S3QB-ZE	ABB	400A 4-Pole open transition power panel	45	UUT_z-2
Electrical Panel / Controler Components				
OXAMI1-L3	ABB	Open transition Level 3 HMI	2.0	UUT_z-1
OXAMI1-L2	ABB	Open transition Level 2 HMI	2.0	interpolated
OXBMI1-L3	ABB	Delay transition Level 3 HMI	2.0	interpolated
OXBMI1-L4	ABB	Delay transition Level 4 HMI	2.0	inerpolated
OXAMI1-L4	ABB	Open transition Level 4 HMI	2.0	UUT_z-2
FLOOR MOUNTED - ATS CERTIFIED SUBCOMPONENTS				
ATS Switch Power Panel Assembly				
OBX600U3S3QB-ZE	ABB	600A 4-Pole open transition power panel	45	UUT_z-3
OXx600Uxxxxx-ZE	ABB	600A 2/3/4-Pole open/delay transition power panel	32 - 52	interpolated
OXx800-1200Uxxxxx-ZE	ABB	800-1200A 3/4-Pole open/delay transition power panel	95 - 127	interpolated
OXA1200U3S3QB-ZE	ABB	1200A 4-Pole delay transition power panel	127	UUT_z-4
Electrical Panel / Controler Components				
OXAMI1-L3	ABB	Open transition Level 3 HMI	2.0	UUT_z-3
OXAMI1-L2	ABB	Open transition Level 2 HMI	2.0	interpolated
OXBMI1-L3	ABB	Delay transition Level 3 HMI	2.0	interpolated
OXBMI1-L4	ABB	Delay transition Level 4 HMI	2.0	inerpolated
OXAMI1-L4	ABB	Open transition Level 4 HMI	2.0	UUT_z-4

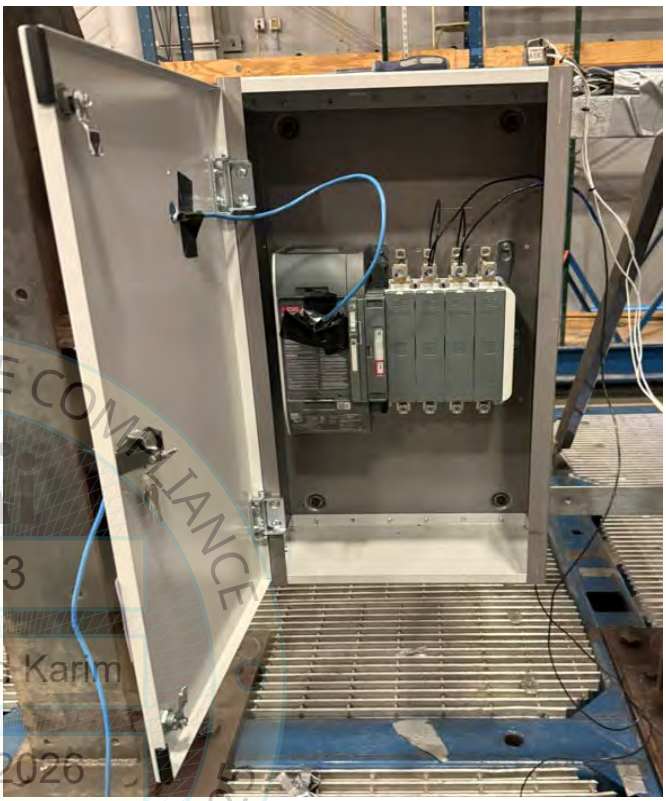
Notes:
The "xxxx" designation at the end of the model number provides differences in control software for the power panels.

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UUT_y-1	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

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





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Manufacturer: ABB	**Test Location:** SEESL, Buffalo NY
Product Line: ZTX, ZTG(D), ZTS(D) ATS WITH TruONE	**Test Date:** April 20, 2026
Component ID: ZGOA3XX12	**Report Number:** SEESL 2026-05

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

UUT Description: 30A 4-Pole Automatic Transfer Switch with OXA30U3S3QT-ZE Power Panel and NEMA 1 bolted carbon steel enclosure.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
81	18.0	10.0	31.0	NA	NA	NA

SEISMIC TEST PARAMETERS - ICC-ES AC 156-24

CODE	S_{DS} (g)	I_P	z / h	H_f	R_μ	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2025	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

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.

UUT_z-1	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

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





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Manufacturer: ABB	**Test Location:** Clark Dynamic Test Lab
Product Line: ZTX, ZTG(D), ZTS(D) ATS WITH TruONE	**Test Date:** April 29 - May 2, 2019
Component ID: ZGOG3XX32	**Report Number:** JID 19-00274 Rev 0
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 welded carbon steel enclosure.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
96	24.0	12.3	32.0	N/A	N/A	N/A

SEISMIC TEST PARAMETERS - ICC-ES AC 156-24

CODE	S_{DS} (g)	I_P	z / h	H_f	R_μ	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2025	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

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 of the power panel not the complete system coponent identification number.

UUT_z-2	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

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





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Manufacturer: ABB	**Test Location:** Clark Dynamic Test Lab
Product Line: ZTX, ZTG(D), ZTS(D) ATS WITH TruONE	**Test Date:** April 29 - May 2, 2019
Component ID: ZGOK3SX12	**Report Number:** JID 19-00274 Rev 0
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 welded carbon steel enclosure.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
142	24.0	14.0	46.0	N/A	N/A	N/A

SEISMIC TEST PARAMETERS - ICC-ES AC 156-24

CODE	S_{DS} (g)	I_P	z / h	H_f	R_μ	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2025	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

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 of the power panel not the complete system coponent identification number.

UUT_z-3	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

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





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Manufacturer: ABB	**Test Location:** Clark Dynamic Test Lab
Product Line: ZTX, ZTG(D), ZTS(D) ATS WITH TruONE	**Test Date:** April 29 - May 2, 2019
Component ID: ZGOL3XX12	**Report Number:** JID 19-00274 Rev 0
Test Report Component ID: OBX600U3S3QB-ZE*	
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 1welded carbon steel enclosure.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
252	28.0	19.5	54.0	25.7	18.5	>33

SEISMIC TEST PARAMETERS - ICC-ES AC 156-24

CODE	S_{DS} (g)	I_P	z / h	H_f	R_μ	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2025	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

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 of the power panel not the complete system coponent identification number.

UUT_z-4	UNIT UNDER TEST (UUT) SUMMARY SHEET	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING

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





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Manufacturer: ABB	**Test Location:** Clark Dynamic Test Lab
Product Line: ZTX, ZTG(D), ZTS(D) ATS WITH TruONE	**Test Date:** April 29 - May 2, 2019
Component ID: ZGDP3SX32	**Report Number:** JID 19-00274 Rev 0
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 welded carbon steel enclosure.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Fequency (Hz)		
	Width	Depth	Height	FB	SS	V
478	40.0	19.8	74.0	25.7	13.8	>33

SEISMIC TEST PARAMETERS - ICC-ES AC 156-24

CODE	S_{DS} (g)	I_P	z / h	H_f	R_μ	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2025	2.00	1.5	1.0	3.5	1.30	3.2g	2.15g	-	-
	2.50		0.0	1.0	1.00	-	-	1.68g	0.68g

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 of the power panel not the complete system coponent identification number.