

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

APPLICATION #: OSP-0756

HCAI Special Seismic Certification Preapproval (OSP)

Туре:

X Renewal

Manufacturer Information

New

Manufacturer: ABB

Manufacturer's Technical Representative: Dhirendra Tiwari

Mailing Address: 41 Woodford Ave, Plainville, CT 06062

Telephone: (860) 747-7935

Email: Dhirendra.Tiwari@us.abb.com

Product Information

Product Name: Emergency and Standby Power Systems

Product Type: Automatic Transfer Switches

Product Model Number: RB3 / RB4 / RB5 Product Lines

General Description: Automatic Bypass Transfer Switches that provide manual / automatic power switching from a primary power source to a backup power source.

Mounting Description: Rigid, Floor Mounted

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

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

 Contact Person:
 Travis Soppe

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

 Telephone:
 (208) 342-5989

 Email:
 tsoppe@wegai.com

Title: President



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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

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 X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
FOR CODE CO
Testing Laboratory
Company Name: CLARK TESTING LABORATORY, INC.
Contact Person: Alex Rossman
Mailing Address: 1801 Route 51, Jefferson Hills PA 15025
Telephone: (412) 387-1676 Email: arossman@clarktesting.com
Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: Jeremy@etIdallas.com
ABUILDING



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OSP-0756



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Seismic Parameters

Design Ba	asis of Equipment or Components	(Fp/Wp) =	1.50 for SDS = 2.0 at z	/h = 1 and 1	.13 for SDS = 2.5 at z/h = 0			
SDS	s (Design spectral response accele	eration at she	ort period, g) = 2.0 at z/	h = 1 and 2.	5 at z/h = 0			
ap ((Amplification factor) =	2.5						
Rp	(Response modification factor) =	6.0						
Ω0	(System overstrength factor) =	2.0						
lp (I	Importance factor) =	1.5						
z/h	(Height ratio factor) =	1 and 0						
Nat	tural frequencies (Hz) =	See Attach	ment					
	erall dimensions and weight = pproval (For Office Use Only) -	See Attach	- CONI	0				
Date:	1/18/2024		DSP-0756	G				
Name:	Timothy Piland			Title:	Senior Structural Engineer			
- Special S	eismic Certification Valid Up to: Sc	os (g) = See	e Above	z/h =	See Above			
Condition	of Approval (if applicable):	DATE	01/18/2024					
	ALT.	PRNIA 6	PUILDING CO	200				



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OSP-0756

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TABLE 1	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING									
ID/Catalog Number	Ampere	NEMA	Equip	Equipment Dimensions (in)			Representative			
	rating	Rating	Width	Depth	Height	Weight (lbs)	UUT ³			
R3B / R4B ATS BYPASS Product Line										
ZSBD120WS1S5TBXX3X 600 1 40 35 86 1277 UUT _y -2										
ZTX, ZTG(D)(C), ZTS(D)(C)	100 - 600	1	40	35	86	1250 - 1300	interpolated			
ZTX, ZTG(D)(C), ZTS(D)(C)	100 - 1200	1	36	38 - 50	92 - 94	1300 - 1730	interpolated			
ZSBD120WS1S5TBXX4X	1200	1 D (36	38	92	1728	UUT _z -1			
ZSBD120WS1S5TBXX4X	1200	FOR	40	40	90	1923	UUT _y -3			
ZTX, ZTG(D)(C), ZTS(D)(C)	100 - 600	3R/4/5/12	40	42 - 57	94 - 96	1645 - 2110	interpolated			
ZTX, ZTG(D)(C), ZTS(D)(C)	100 - 1200	3R/4/5/12	_40	42 - 57	94 - 96	1845 - 2310	interpolated			
ZSBD120WSCS5TBXX4X	1200	3R/4/5/12	40	60/	92	2191	UUT _y -4			
ZSBD120WSDS5TBXX4X	1200	3R/4/5/12	P-07406	57	96	2310	UUT _z -2			
R5B ATS BYPASS Product Line										
ZTX, ZTG(D)(C), ZTS(D)(C)	10 <mark>00 - 3</mark> 000	BY: Timot	thy P4536nd	67.7	77.0 - 79.7	3020 - 3500	interpolated			
ZSBO300WS1L6TBXXXX	3000		45.6	67.7	77.0	3490	UUT _z -4			
ZTX, ZTG(D)(C), ZTS(D)(C)	1000 - 3000	3R/4/5/12	1/1452024	70.6	77.0 - 79.7	3240 - 3820	interpolated			
ZSBD300WS3L6TBXXXX	3000	3R/4/5/12	45.9	70.6	77.0	3820	UUT _z -3			
Notas		NNNNNNNNN	<u> </u>	HARA O						

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 subcomponent within the tested units.

² Enclosures are of made of carbon steel bolted / welded construction.

Subscript indicates the test report in which teh units were qualified: 16827, -16827, -22-00885

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

ZTX - ZXxxxxxxxxxxxxx

ZTG(D)(C) - ZGxxxxxxxxxxxxx

ZTS(D)(C) - ZSxxxxxxxxxxxxx

⁵ The ZTX/ZTG(D)/ZTS(D) automatic transfer switches (ATS) are of nearly identical construction in a withdrawable / fixed or withdrawable / withdrawable configuration and the controler software differences listed below:

ZXBO(D) - ZTX withdrawable / fixed bypass with open or delayed transition control

ZXDO(D) - ZTX withdrawable / withdrawable bypass with open or delayed transition control

ZGBO(D)(C) - ZTG withdrawable / fixed bypass with open or delayed or closed transition control

ZGDO(D)(C) - ZTG withdrawable / withdrawable bypass with open or delayed or closed transition control

ZSBO(D)(C) - ZTS withdrawable / fixed bypass with open or delayed or closed transition control

ZSDO(D)(C) - ZTS withdrawable / withdrawable bypass open or delayed or closed transition control

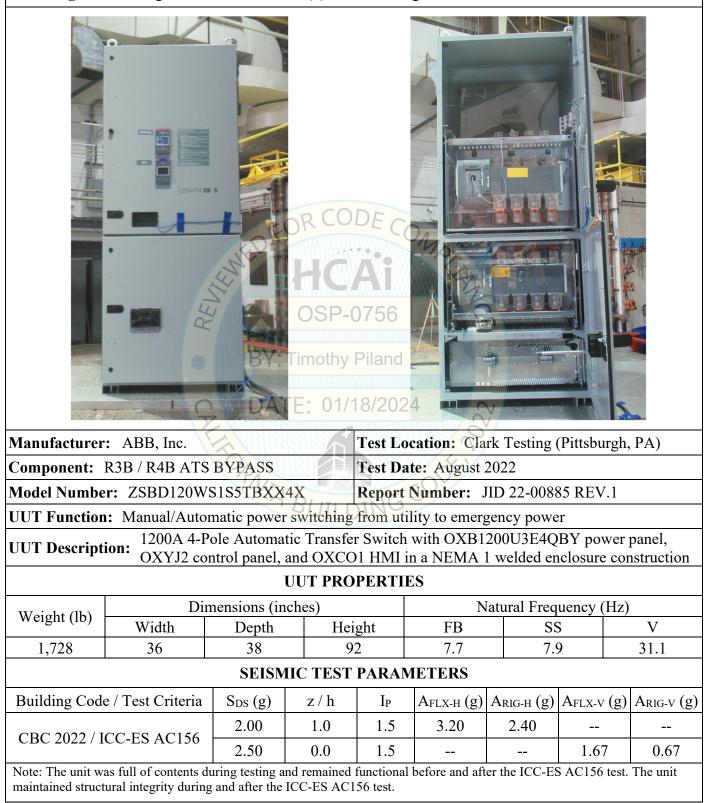
TABLE 2	CERTIFI	WEGAI W.E. GUNDY & ASSOCIATES, IN STRUCTURAL & EARTINGUAKE ENGINEERIJ				
Identification Number	Manufacturer	Description	Weight (lbs)	Representative UU7		
	R3B / R4B A	ATS BYPASS Product Line Subcom	ponents			
		Switch / Power Panel				
OXB0600U3S4QBY		R3B Switch 3P	43	UUT _y -2		
OXB1200U3E4QBY	1	R4B Switch 3P	97	interpolated		
OXB1200U3O4QBY		R4B Switch 4P (Overlap Neutral)	126	interpolated		
OXB0600U3O4QBY	ABB	R3B Switch 4P (Overlap Neutral)	48	interpolated		
OXB0600U3S4QBY	1 -	R3B Switch 4P	48	interpolated		
OXB1200U3S4QBY	-	R4B Switch 4P	126	$\frac{UUT_z-1/UUT_z-2}{UUT_y-3} / UUT_y-4$		
	1	Bus Structure	1			
OXYB0600TU4CU		R3B Bus 3 Pole	151	UUT _y -2		
OXYB0600TU4CU	ABB	R3B Bus 4 Pole	173	extrapolated		
OXYB1200TU4CU	OSR4B Bus 3 Pole		260	extrapolated		
OXYB1200TU4CU	ABB	R4B Bus 4 Pole	UUT _z -1/UUT _z -2 UUT _y -3 / UUT _y -4			
		Control Panel and Controller	1			
OXYJ2	C P	DATE: 01/18/2024 R3B / R4B 3P & 4P	66	UUT _z -1 / UUT _z -2 UUT _y -3 / UUT _y -4		
OXCO1 ¹	ABB	Controller	2	UUT _z -1 / UUT _z -2 UUT _y -3 / UUT _y -4		
	R5B ATS	BYPASS Product Line Subcompon	ents			
		Switch / Power Panel				
2TFC360012R1001		ATSE / MTSE Panel 3P Open	2676	extrapolated		
2TFC360012R1003		ATSE / MTSE Panel 3P Delayed/Closed	2690	extrapolated		
2TFC360012R1002	ABB	ATSE / MTSE Panel 4P Open	2896	UUT _z -4		
2TFC360012R1004		ATSE / MTSE Panel 4P Delayed	2910	UUT _z -3		
		Bus Structure				
2TFR360297A1806	06 750MCM (1600-4000A)		467	UUT _z -4		
2TFR360297A18XX	ABB	500 to 750MCM (1600-4000A)	88-511	Interpolated		
2TFR360297A1808		750MCM (1600-4000A)	511	UUT _z -3		
	,	Controller				
OXCO1 ¹	ABB	Controller	2	UUT_z -3 / UUT_z -4		

OXAMI1-L4, OXBMI1-L4 controller configuations with varied software.

UUTz-1

UNIT UNDER TEST (UUT) SUMMARY SHEET





UUT_z-2

UNIT UNDER TEST (UUT) SUMMARY SHEET





UUT_z-3

UNIT UNDER TEST (UUT) SUMMARY SHEET

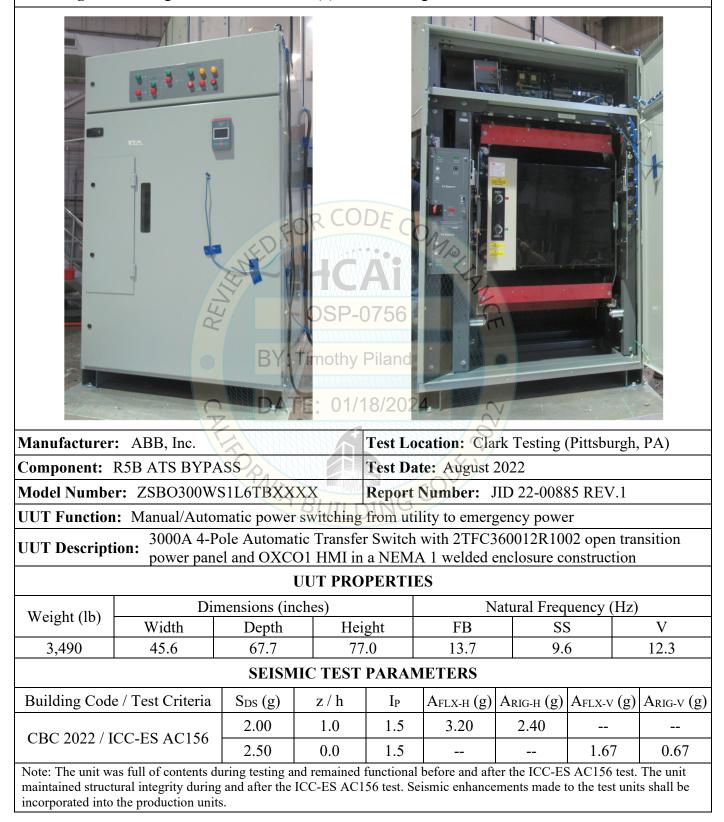




UUT_z-4

UNIT UNDER TEST (UUT) SUMMARY SHEET





UUT_y-2

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (4) 1/2" diameter grade 8 bolts



UUT_y-3

UNIT UNDER TEST (UUT) SUMMARY SHEET



	CHA CHA			DE C DE C A1 DE C A1DE C A1DE C A1DE C A1DE C A1DE C A				
Manufacturer	•: ABB, Inc. R3B / R4B ATS	BVPASS			cation: ET	· ·	(X)	
	er: ZSBD120WS		4X		Number: 1			
	: Manual/Autor		RHTT	TRH3	-		er	
UUT Descript	1200A 4-Po	ole Automa atrol panel,	tic Transfer and OXCO	Switch 1 HMI	with OXB1 in a NEMA	200U3S4Q	BY power	
	D'		UUT PRO	FEKII.		atrue 1 E		
Weight (lb)	Width	<u>ensions (in</u> Depth	ches) Height		N FB	atural Freq) V
1,923	40	40	9	0	9.9	6.:		19.6
		SEISM	IIC TEST	PARAN	METERS	I	1	
Building Cod	e / Test Criteria	S _{DS} (g)	z / h	Ip	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
		2.00	1.0	1.5	3.20	2.40		
CBC 2022 / ICC-ES AC156		2.50	0.0	1.5			1.67	0.67
	as full of contents du tural integrity during				before and aft	er the ICC-ES	S AC156 test	The unit

UUT_y-4

UNIT UNDER TEST (UUT) SUMMARY SHEET



