

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0727
HCAI Special Seismic Certification Preapproval (OSP)	
Type: X New Renewal	
Manufacturer Information	
Manufacturer: ABB	
Manufacturer's Technical Representative: Samuel Kim	
Mailing Address: 45 Griffin Road South, Bloomfield, CT 06002	
Telephone: (860) 996-2518 Email: samuel.kim@us.	abb.com
Product Information	10,
Product Name: Switchgear/Switchboards	E.
Product Type: Switchboards	72
Product Model Number: Enclosed Breakers	- m
General Description: Enclosed circuit breakers: Mohammad Karim	
Mounting Description: Rigid, Floor/Wall Mounted	
Tested Seismic Enhancements: None DATE: 01/28/2022	6
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Applicant Information	Les
Applicant Company Name: WE Gundy & Associates, Inc	
Contact Person: Travis Soppe	
Mailing Address: PO Box 9121, Boise, ID 83707	
Telephone: (208) 342-5989 Email: tsoppe@wegai.cd	om
Title: President	





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California Licensed Structural Engineer Re	esponsible for the Engineering and Test Report(s)
Company Name: W.E. GUNDY & ASOCIATES IN	IC.
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
Other (Please Specify):	
	FOR CODE CO
Testing Laboratory	
Company Name: ENVIRONMENTAL TESTING L	ABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange	
Mailing Address: 11034 Indian Trail, Dallas TX 75	5229-3513 m
Telephone: (972) 247-9657	Email: Jeremy@etIdallas.com
	ATE: 01/28/2022
RN	
CALIFORN	ABUILDING

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





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Seismic Parameters

Design Ba	asis of Equipment or Components	(Fp/Wp) =	1.5 for SDS = 2.0 at z/h =	= 1 and 1.1	3 for SDS = 2.5 at z/h = 0				
SDS	s (Design spectral response accele	ration at sho	ort period, g) = $2.00 (z/h =$	= 1.0), 2.50) (z/h = 0.0)				
ap (ap (Amplification factor) = 2.5								
Rp	Rp (Response modification factor) = 6.0								
Ω0	Ω_0 (System overstrength factor) = 2.0								
lp (Importance factor) =	1.5							
z/h	(Height ratio factor) =	1 and 0							
Nat	tural frequencies (Hz) =	See Attachr	ment						
Ove	erall dimensions and weight =	See Attachr	ment ODF co						
		JEDFO	MA						
HCAI Ap	oproval (For Office Use Only)	Approval E	Expires on 01/28/2028	T					
Date:	1/28/2022		DSP-0727	6					
Name:	Mohammad Karim			Title:	Supervisor, Health Facilities				
Special Seismic Certification Valid Up to: SDS (g) = See Above z/h = See Above									
Condition	of Approval (if applicable):	DATE	• 01/28/2022	6					
	AL IT	PRNIA B	UILDING CODE	102:					

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



TABLE 1	WEGAI W.E. GUNDY & ASSOCIATES, INC. STRUCTURAL & EARTHQUAKE ENGINEERING					
ID/Catalog Number	NEMA Rating	Equipment DimensionsWidth (in)Depth (in)Height (in)			Weight (lbs)	Representative UUT
A2ENCL200NR	3R	8.0	4.6	19.5	15	extrapolated
XT1ENCL125-S	1	9.5	5.3	19.3	16	UUT-1
XT1ENCL125-F,S,SB,R	1 / 3R	9.0 - 10.0	5.3	19.0 - 20.0	25	interpolated
XT2ENCL125-F,S,SB,R	1 / 3R	9.0 - 10.0	5.3	19.0 - 20.0	25	interpolated
XT1ENCL125-CS, J	4X/12	9.5	7.8	19.1	25	interpolated
XT2ENCL125-CS, J	4X/12	9.5	7.8	19.1	25	interpolated
A2ENCL250-F,S,SB, R	1/3R	10.1	5.3	31.0	40	interpolated
XT3ENCL225-F,S,SB,R	1/3R	10.1	5.0 - 6.0	31.0	40	interpolated
XT4ENCL250-F,S,SB,R	1/3R	10.1	5.0 - 6.0	31.0	40	interpolated
XT3ENCL225-CS, J	4X/12	10.5	8.3	31.1	40	interpolated
XT4ENCL250-CS, J	4X/12	10.5	8.3	31.1	40	interpolated
XT5ENCL400-F,S,SB,R	1/3R	16.0 - 18.0	7.0 - 8.0	31.0 - 32.0	85	interpolated
XT5ENCL600-F,S,SB,R	1/3R	16.0 - 18.0		42.0 - 43.0	115	interpolated
XT5ENCL600-CS, J	4X/12	17.5	9.0	42.3	115	interpolated
XT6ENCL800-F,S,SB,R	1/3R	20.0 - 21.0	mr6.0d8.0ar	<mark>n45.</mark> 0 - 46.0	135	interpolated
XT6ENCL800-CS, J	4X/12	17.5	7.5	42.9	135	interpolated
XT7ENCL1200-CS	4X	DA22.0: 0	1/28/2022	49.0 0	136	UUT-3
XT7ENCL1200-F,S,SB,R	1/3R	21.0 - 22.0	8.0 - 11.0	48.0 - 49.0	169	interpolated
XT7ENCL1200-CS, J	4X/12	22.0	8.3	47.6	169	interpolated
XT7ENCL1200-R	3R	22.0	11.0	49.0	169	UUT-2

General Notes:

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

² NEMA 1/3R/4/5/12 enclosures are constructed of carbon steel and NEMA 4X enclosures are constructed of stainless steel.

TABLE 2		ABB, INC. ENCLOSED BREAKERS CERTIFIED SUBCOMPONENT MATRICES					
Identification Number	Manufacturer	Manufacturer Description Weight (lbs)					
		Circuit Breakers		•			
XT1		XT1 125A	2	UUT-1			
A2		A2 25A - 250A	2	interpolated			
XT2		XT2 15A - 125A	3	interpolated			
XT3	ABB	XT3 225A	4	interpolated			
XT4	ADD	XT4 250A	5	interpolated			
XT5		XT5 400A, 600A	10	interpolated			
XT6		XT6 800A	19	interpolated			
XT7		XT7 600A-1200A	27	UUT-2, UUT-3			
		Neutral Kits	-				
TNIA	ABB	Neutral kit	2	UUT-1,2,3			
	1	Ground Kits	2	•			
TGL	ABB	Ground kit	2	UUT-1,2,3			
	CALIFU	PNIA BUILDING CODE	102				

UUT-1

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (2) 1/4" Grade 5 bolts at bottom and (2) 5/16" Grade 5 bolts at the top.



Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT-2

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (4) 1/4" Grade 5 bolts

ABB UDD MARA ABB UDD MARA ABBA ABBA ABBA ABBA ABBA ABBA ABBA ABBA ABBA ABBA ABBA A									
Manufacturer	: ABB, Inc.				Fest Locati	on: ETL (Da	allas, TX)		
Component:	Enclosed Breake	r			Fest Date:	October 2021	1		
Model Numbe	r: XT7ENCL12	200-R	BLIT	DINC	Report Nur	nber: 16380			
UUT Function	: Circuit Breake	er	UIL	DI					
UUT Descript	ion: NEMA 3R and TGL gr		l enclosu	e with	1200A XT7	circuit break	er, TNIA ne	eutral kit,	
			UUT PRO	OPERT	TIES				
Waight (11)	Dim	nensions (in	ches)			Natural Free	quency (Hz)		
Weight (lb)	Width	Depth		eight	FB	S	S	V	
169	22.0	11.0	4	9.0	n/a	n/	/a	n/a	
		SEISM	IIC TEST	Γ PARA	METERS				
Building Code	e / Test Criteria	S _{DS} (g)	z / h	IP	$A_{FLX-H}(g)$	$A_{RIG-H}\left(g ight)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$	
		2.00	1.0	1.5	3.20	2.40	-	-	
СВС 2019 / 1	CC-ES AC156	2.50	0.0	1.5	-	-	1.67	0.67	
	as full of contents du ural integrity during					after the ICC-E	CS AC156 test.	The unit	

UUT-3

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid wall mounted with (4) 5/16" Grade 5 bolts

ABINITIA 1945 ABINITIA 1945 ABINIT									
Manufacturer	: ABB, Inc.					on: ETL (Da	,		
-	Enclosed Breake	1/17				October 2021			
	r: XT7ENCL12		BUTH	DIN	Report Nur	nber: 16380			
	: Circuit Breake								
UUT Descript	ion: NEMA 4X and TGL g		eel enclos	ure wit	h 1200A XT	7 circuit brea	aker, TNIA	A neutral kit,	
]	UUT PR	OPERT	TIES				
$W_{a} = 1 \pm (11)$	Dim	nensions (in	ches)		Natural Frequency (Hz)		z)		
Weight (lb)	Width	Depth	He	eight	FB	S	-	V	
136	22.0	11.13	4	9.0	n/a	n/	/a	n/a	
		SEISM	IIC TEST	F PAR A	AMETERS				
Building Code	e / Test Criteria	$S_{DS}(g)$	z / h	Ip	$A_{FLX-H}\left(g ight)$	$A_{RIG-H}(g)$	A _{FLX-V} (§	g) $A_{RIG-V}(g)$	
		2.00	1.0	1.5	3.20	2.40	-	-	
CBC 2019 / I	CC-ES AC156	2.50	0.0	1.5	-	-	1.67	0.67	
	as full of contents du ural integrity during	iring testing a				after the ICC-E		st. The unit	