

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE	EUSE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #:	OSP – 0304
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: 🗌 New 🖾 Renewal		
Manufacturer Information		
Manufacturer: ABB Inc.		
Manufacturer's Technical Representative: Justin Dubrosky		
Mailing Address: 41 Woodford Ave., Plainville, CT 06062-2372		
Telephone: 860.747.7807	dubrosky@us.abb.com	
Product Information	MD,	
Product Name: ReliaGear neXT and EntellEon OSHPD	-	
Product Type: Panelboards OSP-0304	ŝ	
Product Model Number: Varies (See attachment) (List all unique product identification numbers and/or part numbers) Stach General Description: 250A-1200A ReliaGear neXT and EntellEon I Modifications made to test units to address anomalies observed durin units.		porated into production
Mounting Description: Wall mounted-rigid.	6	
	22	
Applicant Information	CODI	
Applicant Company Name: TRU Compliance, by Structural Integrity A	ssociates, Inc.	
Contact Person: Katie Braman		
Mailing Address: _5215 Hellyer Ave., Suite 210, San Jose, CA 95138		
Telephone: 844-878-0200 Email: kbram	an@structint.com	
I hereby agree to reimburse the Office of Statewide Health I accordance with the California Administrative Code, 2016. Signature of Applicant:	Date	e: <u>12/19/2019</u>
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)	MMM	OSHPD Page 1 of 3

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name:
Name: Andrew M. Coughlin, SE California License Number: S6082
Mailing Address:5215 Hellyer Ave., Suite 210, San Jose, CA 95138
Telephone: 844-878-0200 Email: acoughlin@structint.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: Other (Please Specify):
Testing Laboratory
Company Name: Clark Testing Laboratory ATE: 04/08/2021
Contact Name: Devon Lohr
Mailing Address: 1801 Route 51, Jefferson Hills, PA 15025
Telephone: 412.387.1026 Email: dlohr@clarktesting.com

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

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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: \boxtimes Yes \square No
Design Basis of Equipment or Components $(F_p/W_p) = 1.13 (S_{DS} = 2.50, z/h=0), 1.5 (S_{DS} = 2.00, z/h=1)$
S_{DS} (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1.0), 2.50 (z/h = 0.0) a_p (In-structure equipment or component amplification factor) = 2.5
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 (S _{DS} = 2.00), 0 (S _{DS} =2.50)
Equipment or Component Natural Frequencies (Hz) = See Attachment
FORCODEC
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) =William Staehlin
C₄ (Deflection amplificati <mark>on fa</mark> ctor) =
I_{P} (Importance factor) = 1.5 DATE: 04/08/2021
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
🖂 Test Report(s) 🗌 Drawings 📄 Calculations 🖾 Manufacturer's Catalog
Other(s) (Please Specify): Product Matrices
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Signature: Date: Date: April 8, 2021
Print Name: William Staehlin Title: Senior Structural Engineer
Special Seismic Certification Valid Up to : S _{DS} (g) = <u>See Above</u> z/h = <u>See Above</u>
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15) Page 3 of 3



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Manufacturer:	ABB						TABLE	1		
Model Line:	ReliaGear neXT & Entel	lEon								
Certified Product Con	•									
Enclosures: NEMA1 - C	old formed carbon steel	, NEMA 3 -	Cold form	ed carbon	i steel, NEM	A 4X - Stair	lless Steel			
Certified Options Sun	nmary:									
Mounting Configurati	on:									
Wall mounted - rigid							- 4			
Note: Installed mounting co	onfiguration must be of similar	configuratio	on and equiva	alent strengt						
Building Code: CBC 20	019	Seismic (Certificatio	on Limits:	50	2.0g z/h 2.5g z/h		1.5		
Model Line	Model	Dir	imensions (in)		Weight		Notes	υυτ		
Model Line	Model	Depth	Width	Height	(lb)	Notes		001		
	ENC6030A & ENT1602 <mark>NN3H</mark> 2	15	DS ³⁰ -0	304	250	Indoor ^{1,3} - NEMA 1		CE		1
	ENC* & ENT <mark>* & I</mark> N* & ER <mark>*</mark>	BY W	illiam S	Staehl	lin			Interp		
	ENC96 <mark>45A &</mark> ENT4012 <mark>BL3H</mark> 2	10.5	45	96	896			2		
	ENC* ⁴ & ENT ^{*4} & IN ^{*4} & ER ^{*4}	DATE:	04/06/ 					Interp		
ReliaGear neXT &	ER9645A ⁴ & IN4012BL4H1 ⁴	16	45	96	970		6			
EntellEon (250 -1200 amps)	ENC7230X & ENT1604BL3H2	13 4	BUZLE	DIN72 C	436	Outdo	or ^{2,3} - NEMA 4X	3		
	ENC* & ENT* & IN* & ER*					NEMA 4	4X and NEMA 3R	Interp		
	ENC9645R & ENT3212BL3H2	12.5	47	96	988	Outdo	or ^{2,3} - NEMA 3R	4		
	ENC* & ENT* & IN* & ER*					NEMA 4	X and NEMA 3R	Interp		
	ER9645S & IN4012BL4B3	16	47	96	1182	Outdo	Outdoor ^{2,3} - NEMA 4X			

Notes:

¹Indoor enclosures are constructed from cold-formed carbon steel and are available in NEMA 1 and 2.

²Outdoor Enclosures are constructed from cold-formed carbon steel (Type NEMA 3R, 4, 12) or

Stainless steel (Type NEMA 4X)

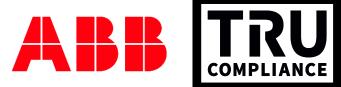
³Indoor enclosures are wall mounted directly to structural framing with 4 or 6 bolts. Outdoor enclosures are wall-mounted with 4 bolts through steel mounting tabs.

⁴ Tap tight screws used to mount door replaced with spot welds.





Manufacturer: Model Line:	tellEon	Table Description: Enclosures and Internal Frame Eon					TABLE 2			
Building Code: CBC 20			Seismic Certification Limits:			$S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	$I_{P} = 1.5$			
Model Line	Madal	Di	mension ((in)	Weight	DE	Net			
(Manufacturer ¹)	Model	Depth	Width	Height	(lb)	P 5 Co Material	Not	es	UUT	
Enclosure NEMA ² 1/2/3R/4R4x/12	ENC*, ER*			N (DSł	Carbon Steel or Stainless Steel			Extra	
	ENC6030A	15	30	60	126				1	
Enclousre NEMA 1 Indoor (ABB/GE)	ENC*, ER*		Q.		OSP-	0304 m			Inter	
	ENC9645A	10.5	45	96	243	Carbon Steel			2	
	ENC*, ER*			BY W	lilliam	Staehlin			Inter	
	EN9645A	16	45	96	245	0			6	
Enclosure NEMA 3R and 4X Outdoor	ENC7230X	13	32	72	291	<mark>9</mark> /2021	UUT: Stainless Steel		3	
	ENC*, ER*		· V	DATE	104/00	72021			Inter	
	ENC9645R	12.5	47	96	458	Carbon Steel or Stainless Steel	UUT: Carbon Steel		4	
(ABB/GE)	ENC*, ER*								Inter	
	ER9645S	16	47	96	502	SOF.	UUT: Stainless Steel		5	
	*IF, *FRM	-				DINGCOD			Extra	
	FRM1630C	-	16	30	B14	DINO			1,3	
	*IF, *FRM	-							Inter	
Internal Frame ²	FRM3245C	-	32	45	40	- Carbon Steel			4	
(ABB/GE)	*IF, *FRM	-							Inter	
	FRM4045F	-	40	45	48				2	
	*IF, *FRM	-							Inter	
	IF4045F	-	40	45	48				5,6	





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Manufacturer: Model Line:	ABB ReliaGear neXT & Ente				Table De	scription: Interior Bus Stack		TABLE 3
uilding Code: CBC 20			Seismic	Certificatio	on Limits:	$S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	l _P = 1.5	
Model Line ¹	Madal	Di	mension ((in)	Weight	Dr	Net	
(Manufacturer)	Model	Depth	Width	Height	(lb)	PECO Material	Note	es UUT
	ENT1602NN3H2	10	15	62	48		UUT: Copper	1
	ENT1604BL3H2	10	15	29	53	PD	UUT: Copper	3
	ENT3212BL3H2	10	15	56.5	117		UUT: Copper	4
Interior Bus Stack	ENT4012BL3H2	10	Q15	62	0 545 -	D304 ///m	UUT: Copper	2
(ABB/GE)	ENT*, IN*					Aluminum or Copper		Inter
	IN4012BL4H1	10	15	⊳62 \ ∧	168	Staehlin	UUT: Aluminum	6
	ENT*, IN*		O	Magazine e realizada da		010011111		Inter
	IN4012BL4B3	10	15	62 DATE:	250	/2021	UUT: Copper	5
lotes: GE or ABB may be bra	anded on product, proc	lucts are ide	entical		BUIL	DING CODE		

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lanufacturer:	ABB EntellEon		TABLE 4			
Model Line: EntellEon Building Code: CBC 2019		Seismic Certificatio	Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$			
Component Type	Manufacturer ¹	Model	RCODEDescription	No	tes	UUT
		EZSEDA36AT0030	Plastic molded case, 7 lbs.			1,2
		EZSEDA36AT0150	Plastic molded case, 7 lbs.			2,3
		EZSGHA36AT0400	Plastic molded case, 17 lbs.			4
		EZSGHA36AT0600	Plastic moldedcase, 17 lbs.			4
		EZS <mark>FHA3</mark> 6AT0250	Plastic molded case, 11 lbs.			4
Circuit Breaker -	ABB/GE	EZSKHA36AT0800 v. \A	Plastic molded case, 50 lbs.			2
Spectra		EZS*	Plastic molded case, 50 lbs.			Interp
		EZSKHA36AT1200	Plastic molded case, 50 lbs.			2
		EUSGHA36AT0400 ATE	Plastic moldedcase, 60 lbs.			3
		EUS*				Interp
		EUSKHC3612L3XX	Plastic molded case, 60 lbs.			4
		EZFBV16TE015R2A	Plastic molded case, 3 lbs.	1 Pole		1
Circuit Breaker - Record Plus	ABB/GE	EZFB*, NEFB*	BUILDINGCOT	EZFB and NEFB are i new prefix model nu		Interp Interp
		EZFBV26TE100R2BC	Plastic moldedcase, 5 lbs.	2 Pole		1
		XT1*	Plastic moldedcase, 4 lbs.			Extrap
		XT1HU3125AYD000XXX	Plastic molded case, 4 lbs.			6
Circuit Breaker -	ABB/GE	XT4*				Interp
XT Breakers		XT4VU3250BYJ000XXX	Plastic molded case, 7 lbs.			5,6
XT5		XT5*				Interp





Manufacturer:	ABB		Table Description: Circuit Breakers		TABL	E 4
lodel Line: Building Code: CBC 20	EntellEon 19	Seismic Certificati	ion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	l _P = 1.5		
Component Type	Manufacturer ¹	Model	RCODEDescription	No	tes	υυτ
		XT5LU360BAFN000XXX	Plastic molded case, 15 lbs.	UUT: Vertical mount	ting	5
		XT5LU360BAYN000XXX	Plastic moldedcase, 15 lbs.	UUT: Horizontal mo	unting	6
Circuit Breaker - XT Breakers	ABB/GE	XT7*				Inter
XT Breakers		XT7LU12EQFX000XXX	Plastic molded case, 43 lbs.	UUT: Vertical mount	ting	6
		XT7LU12EQYX000XXX	Plastic molded case, 43 lbs.	UUT: Horizontal mo	unting	5,6
		BY: V	Villiam Staehlin			
			04/08/2021			
		UNDATE	04/06/2021			
		C.	*			
		0	Str.			
		TV/				
			BUILDING			
lotes:	1			1		1
GE or ABB may be bra	nded on product, produ	ucts are identical				
				TRU Compliance, by Str	uctural Integrity As	sociates.





Nanufacturer:	ABB		Table Description: Fronts, Vertical Kits, Gutter Doors				
lodel Line: Building Code: CBC 20	ReliaGear neXT & Entel 019	lEon Seismic Certifico	tion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	I _P = 1.5	TABLE 5		
Component Type	Manufacturer ¹	Model	RCODEDescription	No	ites UU1		
		FT*			Extra		
		FT45S00065	Carbon steel, 7 lbs.		5		
		FT45VM0260	Carbon steel, 24 lbs.		5		
		FT45VF0100	Carbon steel, 24 lbs.		5		
Front	ABB/GE	FNT*	HIIII 1111 HARVON MAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		Inter		
		FNT306016HSE3ANCT	Carbon steel, 22 lbs.		1		
		FNT307216VSG5ANCT	Carbon steel, 28 lbs.		3		
		FNT459632VSK5ANCT	Carbon steel, 31 lbs.		4		
	-	FNT459640ML45ANFT	Carbon steel, 35 lbs.		2		
		DID*			Extra		
		DD*			Extra		
Door in Door	ABB/GE	DDSUP36	Carbon steel, 13lbs.		6		
		DDFIL45XX33VF	Carbon steel, 17 lbs.		6		
		DD4596AHFS	Carbon steel, 197 lbs.		6		
		VMKSG30C	Carbon steel, 8 lbs.		3		
		VMKS*			Inter		
Vention Main Kit		VMKSK45C	Carbon steel, 8 lbs.		4		
Vertical Main Kit	ABB/GE	VM*			Inter		
		VMX545F	Copper and carbon steel, 18 lbs.		5		
		VMX745F	Copper and carbon steel, 18 lbs.		6		
otes:							
GE or ABB may be br	anded on product, produ	ucts are identical					





Nanufacturer: Nodel Line:	ABB ReliaGear neXT & EntellE	Table Description: Fronts, Vertical Kits, Gutter Doors TABLE					
Building Code: CBC 20			Seismic Certification Limits: $S_{DS} = 2.0 g \ z/h = 1.0$ $S_{DS} = 2.5 g \ z/h = 0.0$ $I_{P} = 1.5$				
Component Type	Manufacturer ¹	Model	RCODEDescription	Not	tes U	JUT	
		GUT30C16BLA	Carbon steel, 4 lbs.			3	
		GUT30C16NNA	Carbon steel, 5 lbs.			1	
		GUT <mark>45C32BLS</mark>	Carbon steel, 8 lbs.			4	
Gutter Doors	ABB/GE	GUT*	QSP-0304		Int	nterp	
		GU <mark>T45F</mark> 40BLA	Carbon steel, 17 lbs.			2	
		GC* RV. \A	liiliam Staehlin		Int	nter	
		GC45F40BLA	Carbon steel, 17 lbs.			5	
-	SPC1BB	Carbon steel, 1 lb.			1		
		SPC2BB DATE	Carbon steel, 1 lb.			1	
		SPC*			Int	nter	
Spacers	ABB/GE	SPC3BB	Carbon steel, 3 lbs.		1	1,3	
		SR*			Int	nter	
		SR1XBF	Carbon steel, 4 lbs.			6	
		SR02BF	Carbon steel, 4 lbs.			6	
		LUGML45	Copper/aluminum, 6 lbs.			2	
		LUGML47	Copper/aluminum, 6 lbs.			2	
Lugs	ABB/GE	LUG*, LG* ¹		LUG* and LG* are ide prefix model number	' Int	nter	
		LUGCL45	Aluminum, 8 lbs.			2	
lotes:			1	<u> </u>			
GE or ABB may be br	anded on product, produc	ts are identical					





Manufacturer:	ABB	Table Description: Fronts, Vertical Kits, Gutter Doors TABLE				
Aodel Line: Building Code: CBC 20	ReliaGear neXT & EntellE 019	on Seismic Certificati	ion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	I _P = 1.5		
Component Type	Manufacturer ¹	Model	RCODEDescription	No	tes	UUT
		LWP30C	Carbon steel, 4 lbs.			1,3
Luc Mine Deet		LWP45F	Carbon steel, 6 lbs.			2,
Lug Wire Post	ABB/GE	LWP*, BP*1				Interp
		LWP45C	Carbon steel, 6 lbs.			4
		NEU12ION	Copper/aluminum/carbon steel, 8 lbs.			2
Nu usla		NEU04ION RV. M	Copper/aluminum/carbon steel, 7 lbs.			3
Neutrals ABB/GE	ABB/GE	NEU [*] , NL ^{*1}				Interp
	NEU12I0GML45	Copper/aluminum/carbon steel, 22 lbs.			4	
	GRN02BG10 DATE	Aluminum & carbon steel, 4 lbs.			1	
		GRN12BG47	Copper or aluminum & carbon steel, 7 lbs.			2,4
Ground Pans	ABB/GE	GRN*, GD*1		GRN* and GD* are id prefix mod		Interp
		GRN04BG10	Aluminum & carbon steel, 4 lbs.			3
			BUILDING			
lotes:						
GE or ABB may be br	anded on product, produc	ts are identical				



					TABLE	6
Model Line: F Building Code: CBC 201	ReliaGear neXT & EntellEon 9	Seismic Certificat	ion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	I _P = 1.5		
Component Type	Manufacturer ¹	Model	OR CODE Description	Not	tes	UUT
		MOD04A	Carbon steel & wiring, 25 lbs.			4
RELT	ABB/GE	MOD*, RT*1	OSHPD Z	MOD* and RT* are id catalog prefix.	entical, RT* is new	Interp
		MOD04C	Carbon steel & wiring, 25 lbs.			4
		SPD120S06SE02	SPD & disconnect, 50 lbs.			4
Surge Portective Devices (SPD)	ABB/GE	SPD*, SP*1 BY: V	Villiam Staehlin	SPD* and SP* are ide catalog prefix.	entical, SP* is new	Interp
		SPD347Y10SE02	SPD & disconnect, 50 lbs.			4
		AMUSPM04AP	Carbon steel, meter, wiring, 16 lbs.			4
Main Metering	ABB/GE	AMU*		AMU* and MT* are id catalog prefix.	entical, MT* is new	Interp
		AMUSPM04AM	Carbon steel, meter, wiring, 16 lbs.			4
		AMUSPMA0302CT	Current xformer & carbon steel, 6 lbs.			4
		AMUSPMA0308CT	Current xformer & carbon steel, 6 lbs.			4
Current Transformers	ABB/GE	AMU*		AMU* and MT* are id catalog prefix.	entical, MT* is new	Interp
		AMUSPMA0312CT	Current xformer & carbon steel, 6 lbs.			4

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Manufacturer:

Building Code: CBC 2019

Component Type

Current Transformers

Mounting Kits

Model Line:

S	UBCOMPON	ENT MATRIX		ABB	TR		
0	01 R0					COMPLI	ANCE
	ABB ReliaGear neXT & Entelli	Eon				TABLE	6
01	9	Seismic Certificati	ion Limits:	$S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	<i>l_P</i> = 1.5	•	
	Manufacturer ¹	Model	ORCOL	EDescription	No	otes	UUT
		AMUSPM40FMSMMK	Carbon stee	el, 5 lbs.			4
~		AMUSPM4 <mark>5CMSM</mark> MK	Carbon stee	el, 5 lbs.			4
5	ABB/GE	AMU*, MT*1	⊙SP-0	304	AMU* and MT* are in catalog prefix.	dentical, MT* is new	Interp
		AMUS <mark>PM45</mark> FMSMMK	Carbon stee	el, 5 lbs.			4
		amukrksk _{by:} V	Carbon stee	el, 3 lbs.			2
	ABB/GE	AMUKRK*, KL*1		2021	AMUKRK* and KL* a new catalog prefix.	re identical, KL* is	Interp
		AMUKRKSG	Carbon stee	el, 3 lbs.			3

		AMORICAR BY:	I carbon steer, subs.	
Kirklock	Kirklock ABB/GE	AMUKRK*, KL*1	- 04/08/2021	AMUKRK* and KL* are identical, KL* is new catalog prefix.
		AMUKRKSG DATE	Carbon steel, 3 lbs.	
		S	4	
		0	S S S	
			A Dum and G COT	
			BUILDING	
s:				
or ABB may be bra	nded on product, prod	ucts are identical		





Manufacture Model Line:						
	ReliaGear neXT & Ente	Report Number	Testing Laboratory	S _{DS}	z/h	I _P
1	NEMA 1 Panel 15"D x 30"W x 60"H	17-00749	Clark Dynamic Test Laboratory	2.67	1	1.5
2	NEMA 1 Panel 10.5"D x 45"W x 96"H	17-00749	Clark Dynamic Test Laboratory	2.80	1	1.5
3	NEMA 4X Panel 13"D x 32"W x 72"H	17-00749	Clark Dynamic Test Laboratory	2.75	1	1.5
4	NEMA 3R Panel 10.5"D x 45"W x 96"H	F 17-00749 DE C	Clark Dynamic Test	2.75	1	1.5
5	NEMA 4X Panel 16"D x 47"W x 96" H	ABBJID 19-00474 Rev1 (UUT7)	Clark Dynamic Test Laboratory	2.0 2.5	1 0	1.5
6	NEMA 1 Panel 16"D x 45"W x 96"H	ABBJID 19-00474 Rev1 OSP-0304	Clark Dynamic Test Laboratory	2.0 2.5	1 0	1.5
		By William Stae	hlin			
	0	DATE 04/08/202				
	CP	DATE: 04/00/202	5/2			
		COP.	DE.2			
		CORNIA BUILDING	CO			
Notes:						

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	ABB									1
Model Line:	ReliaGear	neXT & EntellEon							JUT	
Model Number:	ENC6030A	& ENT1602NN3H2			Serial Nı	ımber:	N/A			
Product Construc	-									
12-14 ga. Cold Fo	rmed Carbon Ste	eel								
Options/Subcom	ponent Summai	ry:								
Enclosure (PN: EN	VC6030A), Interio	or Frame Center (PN:	: FRM16300	C), Bus Stac	k 16x (PN	N: ENT16	02NN3H2)	, Gutter-s	standard	
		306016HSE3ANCT), E								
		cord Plus (PN: EZFB)			ers (PN: S	SPC1BB),	Spacers (PN: SPC2	BB), Spac	cers (PN
SPC3BB), Ground	(PN: GRN02BG1	.0), Lug Wire Post (Pl	N:LWP30C)		ON					
		NE								
			UUT Pr	operties		Z				
Weight		Dimension (in)				Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSHe	ight04	Front-Back		Side	-Side	Vertical	
250	15	30	e	60	MMMM N	/A	N/A		N/A	
		UUT Highes	t Passed Se	eismi <mark>c</mark> Run	Informa	tion		-		
Buildir	ng Code	Test Crite	Test Criteria		z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
CBC	2019	ICC-ES AC156 (2018)		0/2021						
	2010		(2018)/ U	8/2.6721	1.0	1.5	4.27	3.2	1.79	0.72
Test Mounting De				6/ 2.672	1.0	1.5	4.27	3.2	1.79	0.72
Test Mounting De						1.5	4.27	3.2	1.79	0.72

ABB

ReliaGear neXT & EntellEon

1900462-CR-001 R0

Manufacturer:

Model Number:

Model Line:



UUT 2

ENC9645A & ENT4012BL3H2 Serial Number: N/A

Product Construction Summary: 12-14 ga. Cold Formed Carbon Stee

Options/Subcomponent Summary:

Enclosure (PN: ENC9645A), Interior Frame Center (PN: FRM4045F), Bus stack 40x (PN: ENT4012BL3H2), Gutter -standard (PN: GUT45F40BLA), Front (PN: FNT459640ML45ANFT), Breaker - Spectra K (PN: EZSKHA36AT0800), Breaker - Spectra K (PN: EZSKHA36AT1200), Breaker - Spectra E (PN: EZSEDA36AT0030), Breaker - Spectra E (EZSEDA36AT0150), Lug (PN: LUGML45), Lug (PN:LUGML47), Lug (PN: LUGCL45), Ground (PN: GRN12BG47), Neutral (PN: NEU12I0N), Lug Wire Post (PN: LWP45F), Kirk Locks (PN: AMUKRKSK)

			UUT Pro	operties		Z					
Weight		Dimension (in)				Lowest Natural Frequency (Hz)					
(lb)	Depth	Width	OSFlei	OS Height 04		Front-Back		Side-Side		Vertical	
896	10.5	45	g	96	N/A		N/A		N/A		
		UUT Highe	st Passed Se	eismic Run	Informa	tion					
Buildi	ng Code	Test Crit	teria	S _{DS} (g)	z/h		A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
СВС	CBC 2019		ICC-ES AC156 (2018) / 08		1.0	1.5	4.48	3.36	1.88	0.76	

Test Mounting Details:



UUT wall mounted - rigid with six (6) 3/8" -16 Grade 5 bolts, washers, and lock washers (torqued to 30 ft.-lbs). Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

ABB

1900462-CR-001 R0

Manufacturer:



UUT 3 Model Line: ReliaGear neXT & EntellEon Model Number: ENC7230X & ENT1604BL3H2 Serial Number: N/A Product Construction Summary: 12-14 ga. Stainless Steel **Options/Subcomponent Summary:** Enclosure 72x32 (PN: ENC7230X), Interior Frame Center(PN: FRM1630C), Bus Stack 24x (PN: ENT1604BL3H2), Front – Center(PN: FNT307216VSG5ANCT), Main SG (PN: EUSGHA36AT0400), Kirk Locks (PN: AMUKRKSG), Vertical Main kit SG (PN: VMKSG30C), Breaker - Spectra E (PN: EZSEDA36AT0150), Spacers (PN: SPC3BB), Gutter-standard (PN: GUT30C16BLA), LWP 30W (PN: LWP30C), Neutral 250 no GF (PN: NEU04I0N), Ground 10 device (PN: GRN04BG10) **UUT Properties** Weight **Dimension** (in) Lowest Natural Frequency (Hz) (lb) Width Height 04 **Front-Back** Side-Side Vertical Depth 436 13 32 72 N/A N/A N/A **UUT Highest Passed Seismic Run Information Building Code Test Criteria** z/h I_P $S_{DS}(g)$ $A_{FLX-H}(g) | A_{RIG-H}(g) | A_{FLX-V}(g) | A_{RIG-V}(g)$ ICC-ES AC156 (2018) 2.75 1.5 4.40 CBC 2019 1.0 3.30 1.84 Test Mounting Details: CODE UUT wall mounted-rigid with four (4) 1/2"-13 Grade 5 bolts and belleville washers (torqued to 75 ft.-lbs). Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions. TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com 04/08/2021 OSP-0304

0.74

ABB

ReliaGear neXT & EntellEon

ENC9645R & ENT3212BL3H2

1900462-CR-001 R0

Manufacturer:

Model Number:

Model Line:

ABB TRU COMPLIANCE

UUT 4 Serial Number: N/A

Product Construction Summary:

12-14 ga. Cold Formed Carbon Steel

Options/Subcomponent Summary:

Enclosure 96"X47 (PN: ENC9645R), Interior Frame Center (PN: FRM3245C), Bus Stack 32x (PN: ENT3212BL3H2), Front – center (PN: FNT459632VSK5ANCT), Main SK (PN: EUSKHC3612L3XX), Vertical Main Kit SK (PN: VMKSK45C), Gutter-standard (PN: GUT45C32BLS), LWP 45W (PN: LWP45C), Neutral 1200gf (PN: NEU12I0GML45), Ground 47 device (PN: GRN12BG47), RELT (PN: MOD04A), RELT (PN: MOD04C), Metering (PN: AMUSPM04AP), Metering (PN: AMUSPM04AM), SPD (PN: SPD120S06SE02), SPD (PN: SPD347Y10SE02), Circuit Breaker Spectra (PN: EZSFHA36AT0250), Circuit Breaker Spectra (PN: EZSGHA36AT0600), CT (PN: AMUSPMA0302CT), CT (PN: AMUSPMA0308CT), CT (PN: AMUSPMA0312CT), CT (PN: AMUSPM40FMSMMK), CT (PN: AMUSPM45CMSMMK), CT (PN: AMUSPM45FMSMMK)

			UUIFIC	perties		151						
Weight		Dimension (in) OSP-0304					Lowest Natural Frequency (Hz)					
(lb)	Depth	Width Height		Front-Back		Side-Side		Vertical				
988	12.5	47 By V/illian ⁹⁶ Stae				N	/A	N	/A			
		UUT Highest P	assed Se	ismic Run	Informa	tion 🔍						
Build	ing 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			
CBC 2019		JCC-ES AC156 (2	.018)	2.75	1.0	b .5	4.40	3.30	1.84	0.74		
			inte un Lin a Marin Ra an		091 21							

1900462-CR-001 R0



Manufacturer:ABBUUT 5Model Line:ReliaGear neXT & EntellEonUUT 5Model Number:ER9645S & IN4012BL4B3Serial Number:N/AProduct Construction Summary:12- 14 ga. Stainless SteelV/A

Options/Subcomponent Summary:

Enclosure - Stainless Steel (PN: ER9645S), Interior Frame (PN:IF4045F), Bus Stack - 40X, 4 pole, CU bus (PN: IN4012BL4B3), Gutter Doors (PN: GC45F40BLA), Front (PN: FT45VF0100), Front (PN: FT45VM0260), Front (PN: FT45S00065), Horizontal Breaker - XT7(PN: XT7LU12EQYX000XXX), Horizontal Breaker - XT4 (PN: XT4VU3250BYJ000XXX), Vertical Breaker - XT5 (PN:XT5LU360BAFN000XXX), Vertical Main Mounting Kit (VMX545F)

			UUT Pr	operties		Z					
Weight		Dimension (in)				Lowest Natural Frequency (Hz)					
(lb)	Depth	Width	OSHe	ight04	Front	t-Back	Side	-Side	Vertical		
1,182	16	47	9	96	N/A		N/A		N/A		
		UUT Highe	st Passed Se	eismic Run	Informa	tion					
Buildiı	ng Code	Test Crit	Test Criteria		z/h		A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g	
CBC 2019		ICC-ES AC15	ICC-ES AC156 (2018)		1.0 0.0	1.5	3.20	2.40	1.67	0.67	





UUT was wall mounted-rigid with four (4) 1/2"-13 grade 5 bolts, washers, and lock washers (torqued to 75ft.-lbs.) Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

ABB

ReliaGear neXT & EntellEon

ER9645A & IN4012BL4H1

1900462-CR-001 R0

Manufacturer:

Model Number:

Model Line:

UUT 6

Serial Number: N/A

Product Construction Summary:

NEMA 1 Panel - Cold Formed Carbon Steel

Options/Subcomponent Summary:

Enclosure (PN: ER9645A), Interior Frame (PN: IF4045F), Bus Stack - 40X, 4 pole, AL bus (PN: IN4012BL4H1), Door-in-Door Deadfront Kit (PN: DD4596AHFS), Door-in-Door Filler Kit (PN: DDFIL45XX33VF), Door-in-Door Filler Support Rail Kit (PN: DDSUP36), Horizontal Breaker - XT7 (PN: XT7LU12EQYX000XXX), Horizontal Breaker - XT5 (PN: XT5LU360BAYN000XXX), Horizontal Breaker - XT4 (PN: XT4VU3250BYJ000XXX), Horizontal Breaker - XT1(PN: XT1HU3125AYD000XXX), Vertical Breaker - XT7 (PN: XT7LU12EQFX000XXX), Vertical Main Mounting Kit (VMX745F), XT1 Spacer Kit (PN: SR1XBF), Spacer (PN: SR02BF)

		4	UUT Pro	operties		Z				
Weight	Dimension (in)				Lowest Natural Frequency (Hz)					
(lb)	Depth	Width	OSFlei	OS Height 04		Front-Back		-Side	Vertical	
970	16	45	9	6	N/A		N/A		N/A	
		UUT Highe	st Passed Se	ismic Run	Informa	tion				
Buildi	ng Code	Test Criteria		S _{DS} (g)	z/h	I _P O	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019 ICC-ES AC156 (6 (2018)/08	B/202	1.0 0.0	1.5	3.20	2.40	1.67	0.67	

Test Mounting Details:



UUT wall mounted-rigid with six (6) 3/8" -16 grade 5 bolts, washers, and lock washers (torqued to 30 ft.-lbs). Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

OSP-0304