

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0776
HCAI Special Seismic Certification Preapproval (OSP)	
Type: X New Renewal	
Manufacturer Information	
Manufacturer: Eaton	
Manufacturer's Technical Representative: Eddie Wilkie	
Mailing Address: 175 Vista Blvd, Arden, NC 28704	
Telephone: (828) 651-0707 Email: eddiewilkie@eato	on.com
Product Information	10,
Product Name: Switchgear/Switchboards	1 million
Product Type: Switchboards	2
Product Model Number: Pow-R-Line XD Switchboard	
General Description: Low Voltage Distribution Switchboards, NEMA 1	
Mounting Description: Rigid, Floor Mounted	
Tested Seismic Enhancements: None DATE: 09/19/2023	
	0,00
Applicant Information	4.
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.co	
Title: President	



"A healthier California where all receive equitable, affordable, and quality health care"

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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 837	07
Telephone: (208) 342-5989	Email: tsoppe@wegai.com
Certification Method	
GR-63-Core X ICC-ES AC15	6 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):	
	FORCODECO
Testing Laboratory	AND MA
Company Name: NATIONAL TECHNICAL SYS	TEMS (NTS)
Contact Person: Robert Bridges	
Mailing Address: 7800 Highway 20 West, Hunt	sville AL 35806
Telephone: (256) 837-4411	Email: Robert.Bridges@nts.com
	DATE: 09/19/2023
P	
R	
CALIFOR	BUILDING



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OSP-0776



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

Seismic Parameters										
Design Basis of Equipment or Component	ts (Fp/Wp) = 1.31									
SDS (Design spectral response acce	eleration at short period, g) = 1.75									
ap (Amplification factor) =	a _P (Amplification factor) = 2.5									
Rp (Response modification factor) =	6.0									
Ω_0 (System overstrength factor) =	2.0									
lp (Importance factor) =	1.5									
z/h (Height ratio factor) =	1									
Natural frequencies (Hz) =	See Attachment									
Overall dimensions and weight =	See Attachment									
HCAI Approval (For Office Use Only)	- Approval Expires on 09/19/2029	The second								
Date: 9/19/2023	OSP-0776	G								
Name: Mohammad Karim		Title:	Supervisor, Health Facilities							
Special Seismic Certification Valid Up to:	SDS (g) = 1.75	 z/h =	1							
Condition of Approval (if applicable):	DATE: 09/19/2023									
	ORNIA BUILDING COD	202								



OSP-0776

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TABLE 1	SEISMI	WEGAI W.E. GUNDY & ASSOCIATES, INC.						
		Seismic Ce	rtification Limits:	$S_{DS} = 1.75 \ at \ z / .$	h = 1 : Fp = 1.31	g	STRUCTURAL & EA	RTHQUAKE ENGINEERING
	Main Bus		Main E	Enclosure Dimensi	ons (in)	Max	Max COG	Representative
Section Identification ¹	Amperage	NEMA	Width	Depth	Height	Weight (lbs)	(in)	UUT ³
PRLXD-T	-	1	20 - 44	60 - 90	96	1000	55	extrapolated
PRLXD-A	-	1	22 - 44	60 - 90	96	1350	55	extrapolated
PRLXD-MTF / 019	4000	1	36.2	90.5	97.0	1543	58.3	UUT _y -10A
PRLXD-F	2000 - 5000	1	22 - 44	60 - 90	96	1650	52	extrapolated
PRLXD-MF	2000 - 5000	1	22 - 44	60 - 90	96	1650	52	extrapolated
PRLXD-MT	2000 - 5000	1	22 - 44	60 - 90	96	1650	52	extrapolated
PRLXD-MTF	2000 - 5000	1	22 - 44	60 - 90	96	1650	52	extrapolated
PRLXD-F / 034	2000	1	22.0	92.5	96.0	1622	50.4	UUT _x -3
PRLXD-F / 035	4000	14	36.0 OSF	-07 92,5	96.0	1983	52.4	UUT _x -4
PRLXD-F	2000 - 5000	T	24 - 44	60 - 90	96	2200	50	interpolated
PRLXD-MF	2000 - 5000	1	B 24 - 44	60-90 im	96	2200	50	interpolated
PRLXD-MT	2000 - 5000	Υ	24 - 44	60 - 90	<mark>96</mark>	2200	50	interpolated
PRLXD-MTF	2000 - 5000	1	24 - 44	60 - 90	<mark>96</mark>	2200	50	interpolated
PRLXD-F / 059	5000	1	24.3	62.5	96.5	2275	46.9	UUT _x -6
PRLXD-MF / 016	4000	1	24.2	90.5	97.0	2345	55.3	UUT _y -10B
PRLXD-F	2000 - 5000	1	36 - 44	60 - 90	96	2500	58	interpolated
PRLXD-MF	2000 - 5000	1	36 - 44	60 - 90	96	2500	58	interpolated
PRLXD-MT	2000 - 5000	1	36 - 44	60 - 90	96	2500	58	interpolated
PRLXD-MTF	2000 - 5000	1	36 - 44 U	<u> </u>	96	2500	58	interpolated
PRLXD-F	2000 - 5000	1	44	60 - 90	96	2815	56	interpolated
PRLXD-MF	2000 - 5000	1	44	60 - 90	96	2815	56	interpolated
PRLXD-MT	2000 - 5000	1	44	60 - 90	96	2815	56	interpolated
PRLXD-MTF	2000 - 5000	1	44	60 - 90	96	2815	56	interpolated
PRLXD-MT / 058	5000	1	44.3	61.0	96.5	2815	56.1	UUT _x -5

Notes:

¹ The switchboard product line consists of section aragments as designated below:

A - Auxiliary Section / T - Transition Section / F - Feeder Section / MF - Main-Feeder Section / MT - Main-Tie Section / MTF - Main-Tie-Feeder Section ² NEMA 1 enclosures are constructed of carbon steel and manufactured by Eaton.

³ The units were tested at different times and the subscripts on the UUT's reference the following lab test reports: x - PR113244-TR-20 / y - PR087462-01TR-rev1

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EATON PRLXD SWITCHBOARD CERTIFIED SUBCOMPONENT MATRIX



			STRUCTURAL &	EARTHQUAKE ENGINEERIN
ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT
	Power Circuit Breakers	- Magnum SB/DS/DN, Drawout		
MDNC4N	Eaton	4000A	336	UUT _y -10A
MDS/SBS	Eaton	4000A	336	interpolated
MDS/SBS	Eaton	5000A	343	interpolated
SBSC5N	Eaton	5000A	343	UUT _x -5
	NRX Power Circ	uit Breakers - Drawout		•
NYR6123W	Eaton	800A / 600V	87	UUT _y -10B
NRX-NF(NY)	Eaton	800A / 600V	87	interpolated
NYR6123W	Eaton	1200A / 600V	87	UUT _y -10B
NRX-NF(NY)	Eaton	1200A / 600V	87	interpolated
NRX-RF(RY)	Eaton COR	ODE 800A / 480V	211	interpolated
NRX-RF(RY)	Eaton	1200A/480V	211	interpolated
NRX-RF(RY)	Eaton	1600A / 480V	211	interpolated
NRX-RF(RY)	Eaton	2000A / 480V	211	interpolated
NRX-RF(RY)	Eaton OSE	2500A / 480V	211	interpolated
NRX-RF(RY)	Eaton	3000A / 480V	211	interpolated
RYRC303W	Eaton	3000A / 480V	211	UUT _y -10B
	Series G Molded Case	e Circuit Breakers - Drawout	•	•
JGC325032W	Eaton	250A	14	UUT _x -3
JG - Frame	Eaton ATE: 0	9/19/20270A-250A	14	interpolated
LGC360032W	Eaton	600A	20	UUT _x -3
LG - Frame	Eaton	150A-600A	20	interpolated
NG - Frame	Eaton	800A-1200A	45	interpolated
NGC312032E	Eaton	1200A	45	UUT _x -6
	Series C/G Molded Ca	use Circuit Breakers (MCCB)	-	-
FD3225	Eaton	225A	5	UUT _x -4
F - Frame	Eaton	10A-225A	5	interpolated
KD3400F	Eaton	400A	12	UUT _x -4
K - Frame	Eaton	70A-400A	12	interpolated
LGE3630NN	Eaton	600A	20	UUT _x -4
L - Frame	Eaton	125A-600A	20	interpolated
HLD3600F	Eaton	600A	20	UUT _x -4
MDL3800F	Eaton	800A	30	UUT _x -4
M - Frame	Eaton	300A-800A	30	interpolated
ND312T33W	Eaton	1200A	45	UUT _x -4
N - Frame	Eaton	400A-1200A	45	interpolated

Notes:

TABLE 2

EATON PRLXD SWITCHBOARD **CERTIFIED SUBCOMPONENT MATRIX**



			STRUCTURAL &	EARTHQUAKE ENGINEERING
ID/Catalog Number	Manufacturer	Description	Weight (lbs)	Representative UUT
Power	Defense Molded Case Cir	cuit Breakers (MCCB) 1 - 3 Poles (3 Pol	le Data)	
PDG23M0225	Eaton	225A	4	UUT _x -4
PDG-2	Eaton	15A-225A	4	interpolated
PDG33M0400	Eaton	400A	11	UUT _x -4
PDG-3	Eaton	45A-400A	11	interpolated
PDG33M0600	Eaton	600A	12	UUT _x -4
PDG-3	Eaton	45A-600A	12	interpolated
PDG43M0800	Eaton	800A	30	UUT _x -4
PDG-4	Eaton	300A-800A	30	interpolated
PDG-5	Eaton	320A-1200A	47	interpolated
PDG531200	Eaton	1200A	47	UUT _x -4
	10	Meters		
PXM 350	Eaton	Power Xpert Meter	1.0	extrapolated
PXM 1000, 3000	Eaton	Power Xpert Meter	1.0	UUT _x -3
PXM 2000	Eaton	Power Xpert Meter	2.0	interpolated
PXM4000, 6000, 8000	Eaton	Power Xpert Meter	9.2	UUT _x -3
	SPD (Su	irge Protective Device)		
SPD100480YIC	Eaton	SPD 100	4	UUT _x -3
SPD	Eaton	SPD50, 80, 100, 120, 160, 200	4	interpolated
SPD	Eaton AIE:	09/19/2SPD250, 300, 400	7	interpolated
SPD400480Y1C	Eaton	SPD 400	7	UUT _x -3
otes:	FORNIA BU	JILDING CODE		

UUTx	-3		UNDE JMMAI		ST (UUT HEET)	W.E. GUND STRUCTURAL &	E & AS	GAI SOCIATES, INC.
Mounting Det	ails: Rigid fl	oor mounted wi	ith (6) 1/2"	grade 5	bolts				
				DE C					
Manufacturer				<u> </u>	cation: NT		ille, AL		
Product: PRI		oard F / MEDPCHIR			te: March 2 Number: P		D 20		
UUT Function	Divides el	ectrical power f fuse for each ci	eed into br	anch cir	cuits while p			ve c	ircuit
UUT Descript	ion: JGC325	NEMA 1 enclosu 032W / LGC360 000/8000 meters,	0032W circ , and SPD1	uit breal	kers, PXM 10 C/ SPD4004)00/3000 ar	nd PXM		devices.
			$\frac{\text{UUT PRO}}{1}$	rekii.		atur-1 P		۲T= ۲	
Weight (lb)	Width	Dimensions (in Depth	ches) Hei	aht	FB	latural Free		пZ)	V
1,622	22.0	92.5	96	0	7.5	3.			18
			IC TEST				-		
Building Code	/ Test Criter		z / h	Ip	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V}	(g)	A _{RIG-V} (g)
							0.47		
		Its during testing and after the l			before and aff	er the ICC-E	S AC156	test.	The unit

UUT _x	-4			UNDE UMMA		ST (UUT HEET)	W.E. GUNDY & STRUCTURAL & EA	EGAI ASSOCIATES, INC. RTHQUAKE ENGINEERING
Mounting Det	ails: Rigid	l floo	r mounted w	ith (6) 1/2	" grade 5	5 bolts			
			BY:	ALEAN IIRONALE JUUT #3	DE 0				
Manufacturer	: Eaton	ſ	DAT	FE: 09/	Test Lo	cation: NT	S - Huntsvi	ille, AL	
Product: PRI	XD Switc	hboa	rd		Test Da	ate: March 2	.020		
Section ID / SI	N: PRLXI	D- F /	MEDPCHIR	RON-035	Report	Number: P	R113244-7	FR-20	
UUT Function			rical power f se for each c			cuits while p enclosure.	providing a	protective	e circuit
UUT Descript	ion: coppo ND3	er bus 12T3	s, FD3225 / I	KD3400F/ M0225 / H	LGE363	ss. Feeder fi: 30NN / HLD 10400 / PDG	3600F / M	DL3800F	/
				UUT PRC)PERTI	ES			
Weight (1h)		Di	mensions (in	ches)		Ν	Vatural Frec	quency (H	z)
Weight (lb)	Width	1	Depth	He	ight	FB	S	S	V
1,983	36.0		92.5	90	6.0	7.5	3.	5	18
			SEISM	IIC TEST	PARA	METERS			
Building Code	/ Test Crit	eria	$S_{DS}(g)$	z / h	I _P	$A_{FLX-H}(g)$	$A_{RIG-H}\left(g ight)$	A _{FLX-V} (§	g) $A_{RIG-V}(g)$
CBC 2022 / IC	CC-ES AC	156	1.75	1.0	1.5	2.80	2.10	1.18	0.47
Note: The unit wa maintained struct						l before and af	ter the ICC-E	S AC156 te	st. The unit



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (6) 1/2" grade 5 bolts

Mounting Det	ails: Rigid floo	or mounted wi	th (6) 1/2'	grade 5	5 bolts			
					SOPOL SOPOL OMB LITER FINANCES SOPOL			
Manufacturer	: Eaton			Test Lo	ocation: NT	<mark>S</mark> - Huntsvi	ille, AL	
Product: PRI	LXD Switchboa	rd		Test Da	ate: March 2	020		
Section ID/SN	: PRLXD-MT	/ MEDPCHIR	ON-058	Report	Number: P	R113244-T	R-20	
UUT Function		trical power for se for each cir				providing a	protective	circuit
UUT Descript	10 n •	EMA 1 enclos drawout Magi		r circuit	breaker, and		U 11	
	ה:	mensions (inc		'I L'IX I I		atural Fraz	uency (Hz	<u> </u>
Weight (lb)	Width	Depth	<i>,</i>	ght	FB	SS) V
2,815	44.25	61.0	96	-	6.5	3.		22
_,010					METERS		-	
Building Code	/ Test Criteria	$S_{DS}(g)$	$\frac{z/h}{z}$	IP	$A_{FLX-H}(g)$	A _{RIG-H} (g)	A _{FLX-V} (g)	$A_{RIG-V}(g)$
CBC 2022 / IO		1.75	1.0	1.5	2.80	2.10	1.18	0.47
Note: The unit wa	as full of contents of ural integrity durin	during testing an	d remained	functiona				



UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (6) 1/2" grade 5 bolts

Mounting Det	ails: Rigid floo	r mounted w	vith	(6) 1/2"	grade 5	bolts			
Manufacturer	: Eaton			1	Test Lo	ocation: NT	S - Huntsvi	ille, AL	
Product: PRI	LXD Switchboa	rd			Test Da	ate: March 2	020		
Section ID/SN	: PRLXD-F / M	IEDPCHIRC	DN-	-059	Report	Number: P	R113244-7	Г R-2 0	
UUT Functior	Divides elect breaker or fu						providing a	protective	circuit
UUT Descript		EMA 1 enclo NGC312032				ss. Main / Fe	eder sectio	on housing	copper bus
			UU	T PRO	PERTI	ES			
Weight (lb)	Di	mensions (in	nche	es)		N	latural Free	quency (Hz	z)
2	Width	Depth		Hei	0	FB	S		V
2,275	24.25	62.5		96	.0	6.5	3.	5	22
		SEISN	110	C TEST	PARA	METERS			-1
Building Code	e / Test Criteria	$S_{DS}(g)$		z / h	IP	$A_{FLX-H}\left(g ight)$	$A_{RIG-H}\left(g\right)$	A _{FLX-V} (g) $A_{RIG-V}(g)$
CBC 2022 / IO	CC-ES AC156	1.75		1.0	1.5	2.80	2.10	1.18	0.47
	as full of contents of tural integrity durir					l before and aft	er the ICC-E	S AC156 tes	t. The unit

UUT_y-10A

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (6) 1/2" grade 5 bolts

		BY: I	3358#53 UUT COI HC/ OSP-0 Mohamm	9/202	3			
Manufacturer	: Eaton			Test	Location:	NTS - Hun	ntsville, AL	
Product: PRI	LXD Switchboa	rd			Date: Octo			
Section ID/SN	: PRLXD-MTF		Dim	- 11-	ort Number:			
UUT Function		rical power for se for each ci				providing a	protective	circuit
UUT Descript	inni	EMA 1 enclos s, a MDNC41		Magnur	n power circ			sing
	D.			PERII				
Weight (lb)		mensions (ind	, í	-1-4			uency (Hz)	
1,543	Width 36.2	Depth 90.5	Heig 97.	-	FB 9.9	5.		V > 33
1,343	50.2		IC TEST			5.	1	- 55
						A ()		
0	/ Test Criteria	$S_{DS}(g)$	z / h	IP	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
CBC 2022 / IC	CC-ES AC156	2.40	1.0	1.5	3.84	2.88	1.61	0.65
	as full of contents or ural integrity durin				l before and aft	er the ICC-ES	S AC156 test	The unit

UUT_y-10B

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (6) 1/2" grade 5 bolts

		BY: W	lohamm	19/202	3	Ye			
Manufacturer: Eaton				Test	Test Location: NTS - Huntsville, AL				
Product: PRLXD		γ		Test	Date: Octo	ber 2018			
Section ID/SN: PR			Ot IT -	78167	ort Number:				
		rical power fee se for each circ				providing a	protective	circuit	
UUT Description:		EMA 1 enclosu NYR6123W a	and one R	YRC30	3W power c		-	copper bus	
UUT PROPERTIES Dimensions (inches) Natural Frequency (Hz)								<u> </u>	
Weight (lb)	Dimensions (inches)			aht					
Width 2,345 24.2		Depth 90.5	Hei 97	-	<u>FB</u> 9.8	5.1		>33	
2,373	27.2				9.0 METERS	5.	1		
Duilding Code / Te	at Critaria					Λ = = = (α)	A ()	A	
Building Code / Test Criteria		$S_{DS}(g)$	z / h	I _P	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$		
CBC 2022 / ICC-ES AC156		2.40	1.0 remained	1.5	3.84	2.88	1.61	0.65	