

	OFFICE USE ONLY				
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #:	OSP – 0428			
OSHPD Special Seismic Certification Preapproval (OSP)					
Type: 🗌 New 🛛 Renewal					
Manufacturer Information					
Manufacturer: Eaton					
Manufacturer's Technical Representative: Mike Henricks					
Mailing Address:114 Old State Road, Ellisville, MO 63021					
Telephone: 636-527-1366	Henricks@eaton.com				
Product Information	Mp,				
Product Name: Quik-Spec or Pow-R-Line 3FQS Panelboards	E.				
Product Type: Low Voltage Distribution Panelboards P-0428	ŝ				
Product Model Number: See Product Range Summary (List all unique product identification numbers and/or part numbers) State General Description: Low Voltage Distribution Panelboards, NEMA	1 and 3R, 600V, 400A.				
Mounting Description: <u>Rigid wall mounted</u> .	200				
Applicant Information	ODE				
Applicant Company Name: Eaton					
Contact Person: Eddie Wilkie					
Mailing Address: _175 Vista Blvd, Arden, NC 28704					
Telephone: 828-651-0707 Email: eddiew	vilkie@eaton.com				
I hereby agree to reimburse the Office of Statewide Health F accordance with the California Administrative Code, 2016. Signature of Applicant: <u>Eddie Wilkie</u> Title: <u>Director of Engineering</u> Company Name: <u>Eaton</u>	Planning and Develo	opment review fees in			
"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 09/05/19)	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: ISAT										
Name: California License Number: SE 4545										
Mailing Address: _1020 Crews Road, Quite Q, Matthews, NC 28105										
Telephone: 510-714-0216 Email: wvjoerger@isatsb.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): 										
CSP-0428										
Testing Laboratory										
Company Name: NTS Laboratories DATE: 02/25/2021										
Contact Name: Tom Boonarkat										
Mailing Address: P.O. Box 77777, Huntsville, AL 35807										
Telephone: 256-716-4291 Email: Tom.Boonarkat@nts.com										

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: 🛛 Yes 🗌 No
Design Basis of Equipment or Components $(F_p/W_p) = 2.08$
S _{DS} (Design spectral response acceleration at short period, g) = <u>2.77</u>
a _p (In-structure equipment or component amplification factor) = <u>2.5</u>
R _p (Equipment or component response modification factor) = <u>6.0</u>
Ω_0 (System overstrength factor) =2.0
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = _1
Equipment or Component Natural Frequencies (Hz) = <u>N/A</u>
Overall dimensions and weight (or range thereof) = See Product Range Summary
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) =
C₄ (Deflection amplification factor) =
I_P (Importance factor) = 1.5 DATE: 02/25/2021
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):
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
IN an A Ma
Signature: Date: Date: February 25, 2021
Print Name: William Staehlin Title: Senior Structural Engineer
Special Seismic Certification Valid Up to: $S_{DS}(g) = 2.77$ $z/h = 1.0$
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



Certified Product Range Summary Quik-Spec(QSCP)/Pow-R-Line 3FQS Panelboards

Model	UUT Identifier ²	Continuous Current Rating (Amps)	Bus Material	Width (in.)	Depth (in.)	Height (in.)	Weight (Ibs.)	S _{DS}	F _p /W _p	NEMA Enclosure Type	UUT Status
Quik	P0002	30	Cu	20.38	6.00	33.00	90	2.77	2.08	1	37
	QSCP/PRL3FQS	30-400	Cu	20	5.75	33, 50, 59, 69	170	2.77	2.08	1	Interpolated
QUIK- Spec(OSCP)/PPI 3EOS	QSCP/PRL3FQS	30-400	Cu	20	7.70	34.5, 51.5, 60.5, 70.5	194	2.77	2.08	3R	Interpolated
Spec(QSCF)/FILSIQS	QSCP4	400	Cu	20.25	6.25	59 0	170	2.77	2.08	1	21
	P0001	400	Cu	21.25	7.75	72.75	194	2.77	2.08	3R	36
OSHPD T											

1. Manufactured by Eaton

2. Configured to order product. Unique identifiers provided

for each par	helboard.
	BY: William Staehlin
	DATE: 02/25/2021
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	PNI
	BUILDING

OSP-0428



Quik-Spec(QSCP)/Pow-R-Line 3FQS Panelboards

Certified Subcomponents: Enclosures^{1,2,3}

		Enclosuro	D	imensions (inche	es) ⁴	Woight			
Model	Enclosure Type	Mounting	Width	Depth	Height	(lbs.)	S _{DS}	F_p/W_p	Test Status
	1	Wall	20.00	5.75	33.00	90	2.77	2.08	UUT 37
	1	Wall	20.00	5.75	50.00	128	2.77	2.08	Interpolated
	1	Wall	20.00	5.75	59.00	135	2.77	2.08	Interpolated
	1	Wall	20.00	5.75	69.00	143	2.77	2.08	Interpolated
	3R⁵	Wall	20.00	7.70	34.50	93	2.77	2.08	Interpolated
Quik-Spec (QSCP)/PRL3FQS	3R⁵	Wall	20.00	7.70	51.50	131	2.77	2.08	Interpolated
	3R⁵	Wall	20.00	7.70	60.50	170	2.77	2.08	Interpolated
	3R⁵	Wall	20.00	7.70	70.50	194	2.77	2.08	Interpolated
	1	Wall	20.00	5.75	59.00	170	2.77	2.08	UUT 21
	3R ⁵	Wall	20.00	7.75 P	0472.75	194	2.77	2.08	UUT 36

BY: William Staehlin

DATE: 02/25/2021

1. All enclosures manufactured by Eaton

2. All enclosures made from powder coated, mild carbon steel.

3. All enclosures utilize a common mounting configuration.

POPNIA BUILDING CODE. 20 4. Enclosure dimensions only. Does not include extraneous items such as hardware or handles.

5. NEMA 3R enclosures include drip shield ansd gasket material.



Quik-Spec (QSCP)/Pow-R-Line 3FQS Panelboards

Certified Subcomponents: Switches

	Continuous		A				
Model	Rating	Poles	Approximate	Manufacturer	Test Status	S _{DS} (g)	F_p/W_p
	(Amperes)		weight (lbs.)				
CCPB-1-15CF	15	1	0.34		UUT 36, 37		
CCPB-2-15CF	15	2	0.68		Interpolated		
CCPB-3-15CF	15	3	1.02		UUT 36		
CCPB-1-20CF	20	1	0.34		Interpolated		
CCPB-2-20CF	20	2	0.68		Interpolated		
CCPB-3-20CF	20	3	1.02		Interpolated		
CCPB-1-30CF	30	1	0.34		Interpolated		
CCPB-2-30CF	30	2	0.68		Interpolated		
CCPB-3-30CF	30	3	1.02		Interpolated		
CCPB-1-40CF	40	1	0.34		Interpolated		
CCPB-2-40CF	40	2	0.68		Interpolated		
CCPB-3-40CF	40	3	1.02		Interpolated		
CCPB-1-50CF	50	1	0.34	CODE	UUT 36		
CCPB-2-50CF	50	2	0.68	CODE CO	Interpolated		
CCPB-3-50CF	50	3	1.02	Eaton	UUT 36	2.77	2.08
CCPB-1-60CF	60	1	0.34		Interpolated		
CCPB-2-60CF	60	2	0.68	CLDD	Interpolated		
CCPB-3-60CF	60	3	1.02	DTIPU	Interpolated		
CCPB-1-70CF	70	1	0.34		Interpolated		
CCPB-2-70CF	70	2	0.68	SP-0428	Interpolated		
CCPB-3-70CF	70	3	1.02	010720	Interpolated		
CCPB-1-90CF	90	1	0.34		Interpolated		
CCPB-2-90CF	90	2	0.68	iom Ctoob	Interpolated		
CCPB-3-90CF	90	3	BY:1.02VIII	iam Staen	Interpolated		
CCPB-1-100CF	100	1	0.34		UUT 36		
CCPB-2-100CF	100	2	0.68		Interpolated		
CCPB-3-100CF	100	3	DA102: U	2/25/2021	UUT 36, UUT 21		
CDNF200U03	200	3	3.48		Interpolated		
CDNF400U03	400	3	6.75	+	UUT 36		
		YEIR	ORNIAE	BUILDING	001:25		

UUT 21 (Unit Under Test) Summary Sheet

Manufacturer: Eaton

Model Number: QSCP4 (Quik-Spec/Pow-R-Line 3FQS)

Product Construction Summary:

Cabinet is constructed of powder coated coated, mild carbon steel, NEMA 3R rating.

Options/Component Summary: CCPB-3-100CF

UUT Properties (As Tested)										
M(a; abt (lba))		Dim	ensions (inc	hes)	Lowest Natural Frequency (Hz)					
weigh	t (IDS.)	Width	Depth	Height	Front-Back		Side-Side		Vertical	
17	70	20.25	6.25	59.00	N/A		N/A		N/A	
Seismic Test Parameters										
Building Code	Test Criteria	C.G Height (in.)	Sds (g)*	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V	
CBC 2019	ICC-ES AC156	N/A	2.77	FORCO	DF1.5CO	4.43	3.32	1.86	0.75	

UUT maintained structural integrity and functionality as observed in post test inspection and operation checks.

*S_{DS} value is determined from input motions during test.-0428

BY: William Staehlin



UUT 21 was mounted to a rigid wall fixture with (5) 5/16" bolts (Grade 5). The fixture (carbon steel) was welded to the shake table.

UUT 36 (Unit Under Test) Summary Sheet

Manufacturer: Eaton

Model Number: P0001 (Quik-Spec/Pow-R-Line 3FQS)

Product Construction Summary:

Cabinet is constructed of powder coated, mild carbon steel, NEMA 3R rating.

Options/Component Summary: CCPB-1-15CF, CCPB-1-50CF, CCPB-1-100CF, CCPB-3-15CF, CCPB-3-50CF, CCPB-3-100CF

			U	UT Properti	es (As Teste	ed)			
) (/ - : - + /)		Dim	ensions (inc	hes)	Lowest Natural Frequency (Hz)				
weigh	t (IDS.)	Width	Depth	Height	Front-Back		Side-Side		Vertical
19	94	21.25	7.75	72.75	N/A		N/A		N/A
Seismic Test Parameters									
Building Code	Test Criteria	C.G Height (in.)	Sds (g)*	z/h	Ip	Aflx-H	Arig-H	Aflx-V	Arig-V
CBC 2019	ICC-ES AC156	N/A	2.77	FORCO	DF1.5CO	4.43	3.32	1.86	0.75

UUT maintained structural integrity and functionality as observed in post test inspection and operation checks.

*S_{DS} value is determined from input motions during test.-0428

BY: William Staehlin



UUT 36 was mounted to a rigid wall fixture with (4) 1/4" bolts (Grade 5). The fixture (carbon steel) was welded to the shake table.

UUT 37 (Unit Under Test) Summary Sheet

Manufacturer: Eaton

Model Number: P0002 (Quik-Spec/Pow-r-Line/3FQS)

Product Construction Summary:

Cabinet is constructed of powder coated, mild carbon steel, NEMA 1 rating.

Options/Component Summary: CCPB-1-15CF

UUT Properties (As Tested)										
Woigh	+ (lbc)	Dim	ensions (inc	hes)	Lowest Natural Frequency (Hz)					
weigh	t (IDS.)	Width	Depth	Height	Front-Back		Side-Side		Vertical	
9	0	20.38	6.00	33.00	N/A		N/A		N/A	
	Seismic Test Parameters									
Building Code	Test Criteria	C.G Height (in.)	Sds (g)*	z/h	lp	Aflx-H	Arig-H	Aflx-V	Arig-V	
CBC 2019	ICC-ES AC156	N/A	2.77	FORCO)DF1.5CO	4.43	3.32	1.86	0.75	

UUT maintained structural integrity and functionality as observed in post test inspection and operation checks.

*S_{DS} value is determined from input motions during test.



UUT 37 was mounted to a rigid wall fixture with (4) 1/4" bolts (Grade 5). The fixture (carbon steel) was welded to the shake table.