

**Project Name:** NOAO Kitt Peak  
**General Order No:**

**Negotiation No:** PXIE0609X7K1  
**Alternate No:** 0000

Item No.	Qty	Product	Description
	1	Switchboards	Pow-R-Line C Switchboard, Front Access/ Front and Rear Align, Type 1, 208Y/120V 3-Phase 4-Wire, 800 Aluminum, Minimum Interrupting Rating: 35kA, Bus Bracing Rating: 65kA

**Designation**

**Qty List of Materials**

- 1 Pow-R-Line C
- 1 Seismic Freestanding Label (IBC/CBC Seismic Qualified)
- 1 800 Amp AL Distribution Structure
- 1 Main Lugs
- 1 SPD Series 250kA SPD, Standard w/ Surge Counter (Disconnect Included)
- 16 Padlockable lockoff device
- 16 Thermal Mag Trip - Standard
- 17 Ground Lugs(s)
- 2 200A 3P [EDS 225A Frame], Trip 200 A, Thermal Mag, (1) #4-4/0, Mechanical
- 1 150A 3P [EDS 225A Frame], Trip 150 A, Thermal Mag, (1) #4-4/0, Mechanical
- 4 60A 3P [FD 225A Frame], Trip 60 A, Thermal Mag, (1) #14-1/0, Mechanical
- 3 100A 3P [FD 225A Frame], Trip 100 A, Thermal Mag, (1) #14-1/0, Mechanical
- 1 100A 2P [FD 225A Frame], Trip 100 A, Thermal Mag, (1) #14-1/0, Mechanical
- 1 80A 2P [FD 225A Frame], Trip 80 A, Thermal Mag, (1) #14-1/0, Mechanical
- 1 60A 2P [FD 225A Frame], Trip 60 A, Thermal Mag, (1) #14-1/0, Mechanical
- 2 30A 2P [FD 225A Frame], Trip 30 A, Thermal Mag, (1) #14-1/0, Mechanical
- 1 20A 2P [FD 225A Frame], Trip 20 A, Thermal Mag, (1) #14-1/0, Mechanical

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

## Switchboard General Information

### Pow-R-Line C - Specifications

Quantity: 1

Alignment: Front Access/ Front and Rear Align

Service: 208Y/120V 3-Phase 4-Wire

Minimum Interrupt Rating: 35 kA

### Bus Specifications

Bus Amps: 800

Bus Bracing Rating: 65kA

Neutral Amps: 800

Bus Material: Aluminum

Heat Test

Ground Bus Material: Aluminum .25 X 2.0 Ground Bus Bolted To Frame, (1) #6-350 kcmil Ground Lug

### Incoming Information

Terminals, Mechanical, Bottom, (3) #4-500 kcmil

Incoming Entry: Bottom

Incoming Location: Left

Incoming Qty & Size: Terminals, Mechanical, Bottom, (3) #4-500 kcmil

### Structure Specifications

Non Service Entrance

Enclosure Type: Type 1

Seismic Label (IBC/CBC Seismic Qualified) - Freestanding

Refer to seismic installation data sheet TD01508002E and drawing 1A32496 for details.

### Enclosure properties

#### Struct #

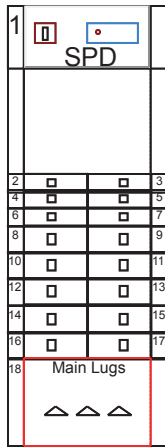
1

#### Description/Modifications

Bottom incoming main lugs on 50x chassis (Incoming Main Device/ MLO Section)

Groundlugs: 17

<p><b>The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.</b></p>	PREPARED BY	DATE	<b>Eaton</b> <span style="float: right;">SumterSC</span>		
	MIKE BECKER	6/9/2017			
	APPROVED BY	DATE	JOB NAME	NOAO Kitt Peak	
		DESIGNATION			
	VERSION	TYPE	DRAWING TYPE CustAppr		
	8.0.19.0	Switchboards			
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
PXIE0609X7K1-0000	0	DwgA			1 of 4



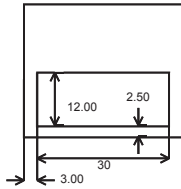
Front View

Struct	1	*
Depth	30	
Width	36	

Power Flow



Floor Plan Rear



Total of 1 Structures, Total Weight of 495 Weight-Lbs.  
Total of 1 Structures, Total Width of 36 Inches

<b>Structure</b>	1				
<b>Ship-Inches</b>	36.00				
<b>Ship-MM</b>	914				
<b>Width-Inches</b>	36.00				
<b>Width-MM</b>	914				
<b>Depth(Inner)-In.</b>	30.00				
<b>Depth(Inner)-MM</b>	762				
<b>Depth(Outer)-In.</b>	30.00				
<b>Depth(Outer)-MM</b>	762				
<b>Height-Inches</b>	90.00				
<b>Height-MM</b>	2286				
<b>Weight-Lbs.(Est.)</b>	495				
<b>Weight-Kg.(Est.)</b>	224				

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.

PREPARED BY MIKE BECKER	DATE 6/9/2017	<b>Eaton</b> SumterSC			
APPROVED BY	DATE	JOB NAME NOAO Kitt Peak	DESIGNATION		
VERSION 8.0.19.0	TYPE Switchboards	DRAWING TYPE CustAppr			
NEG-ALT Number PXIE0609X7K1-0000	REVISION 0	DWG SIZE DwgA	G.O.	ITEM	SHEET 2 of 4

## Switchboard Units Information

Str#	Unit	Description/Modifications	Nameplate
1	1	Surge Protective Device -SPD Series 250kA SPD, Standard w/ Surge Counter (Disconnect Included)	
	2	Feeder Breaker - Chassis Mtd-30A 2P [FD 225A Frame], Trip 30A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Lockoff devices: Padlockable Hasp Neutral Terminal, (1) #14-1/0	
	3	Feeder Breaker - Chassis Mtd-20A 2P [FD 225A Frame], Trip 20A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Lockoff devices: Padlockable Hasp Neutral Terminal, (1) #14-1/0	
	4	Feeder Breaker - Chassis Mtd-60A 2P [FD 225A Frame], Trip 60A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Lockoff devices: Padlockable Hasp Neutral Terminal, (1) #14-1/0	
	5	Feeder Breaker - Chassis Mtd-30A 2P [FD 225A Frame], Trip 30A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Lockoff devices: Padlockable Hasp Neutral Terminal, (1) #14-1/0	
	6	Feeder Breaker - Chassis Mtd-100A 2P [FD 225A Frame], Trip 100A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Lockoff devices: Padlockable Hasp Neutral Terminal, (1) #14-1/0	
	7	Feeder Breaker - Chassis Mtd-80A 2P [FD 225A Frame], Trip 80A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Lockoff devices: Padlockable Hasp Neutral Terminal, (1) #14-1/0	
	8	Feeder Breaker - Chassis Mtd-100A 3P [FD 225A Frame], Trip 100A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Lockoff devices: Padlockable Hasp Neutral Terminal, (1) #14-1/0	
	9	Feeder Breaker - Chassis Mtd-100A 3P [FD 225A Frame], Trip 100A., Thermal Mag Terminals, Mechanical, (1) #14-1/0 Lockoff devices: Padlockable Hasp Neutral Terminal, (1) #14-1/0	

<p><b>The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.</b></p>	PREPARED BY	DATE	<b>Eaton</b> <span style="float: right;">SumterSC</span>		
	MIKE BECKER	6/9/2017			
	APPROVED BY	DATE	JOB NAME	NOAO Kitt Peak	
		DESIGNATION			
	VERSION	TYPE	DRAWING TYPE		
	8.0.19.0	Switchboards			
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
PXIE0609X7K1-0000	0	DwgA			3 of 4

- 10 Feeder Breaker - Chassis Mtd-60A 3P [FD 225A Frame], Trip 60A., Thermal Mag  
Terminals, Mechanical, (1) #14-1/0  
Lockoff devices: Padlockable Hasp  
Neutral Terminal, (1) #14-1/0
  
- 11 Feeder Breaker - Chassis Mtd-100A 3P [FD 225A Frame], Trip 100A., Thermal Mag  
Terminals, Mechanical, (1) #14-1/0  
Lockoff devices: Padlockable Hasp  
Neutral Terminal, (1) #14-1/0
  
- 12 Feeder Breaker - Chassis Mtd-60A 3P [FD 225A Frame], Trip 60A., Thermal Mag  
Terminals, Mechanical, (1) #14-1/0  
Lockoff devices: Padlockable Hasp  
Neutral Terminal, (1) #14-1/0
  
- 13 Feeder Breaker - Chassis Mtd-60A 3P [FD 225A Frame], Trip 60A., Thermal Mag  
Terminals, Mechanical, (1) #14-1/0  
Lockoff devices: Padlockable Hasp  
Neutral Terminal, (1) #14-1/0
  
- 14 Feeder Breaker - Chassis Mtd-150A 3P [EDS 225A Frame], Trip 150A., Thermal Mag  
Terminals, Mechanical, (1) #4-4/0  
Lockoff devices: Padlockable Hasp  
Neutral Terminal, (1) #6-350 kcmil
  
- 15 Feeder Breaker - Chassis Mtd-60A 3P [FD 225A Frame], Trip 60A., Thermal Mag  
Terminals, Mechanical, (1) #14-1/0  
Lockoff devices: Padlockable Hasp  
Neutral Terminal, (1) #14-1/0
  
- 16 Feeder Breaker - Chassis Mtd-200A 3P [EDS 225A Frame], Trip 200A., Thermal Mag  
Terminals, Mechanical, (1) #4-4/0  
Lockoff devices: Padlockable Hasp  
Neutral Terminal, (1) #6-350 kcmil
  
- 17 Feeder Breaker - Chassis Mtd-200A 3P [EDS 225A Frame], Trip 200A., Thermal Mag  
Terminals, Mechanical, (1) #4-4/0  
Lockoff devices: Padlockable Hasp  
Neutral Terminal, (1) #6-350 kcmil
  
- 18 Main Lugs -Incoming

<b>The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.</b>	PREPARED BY	DATE			
	MIKE BECKER	6/9/2017	<b>Eaton</b>	SumterSC	
	APPROVED BY	DATE	JOB NAME	NOAO Kitt Peak	
			DESIGNATION		
	VERSION	TYPE		DRAWING TYPE	
	8.0.19.0	Switchboards		CustAppr	
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
PXIE0609X7K1-0000	0	DwgA			4 of 4