

# MEPNN Supplier Scouting Opportunity Synopsis

## Section 1: General Information

Scouting Number	2025-029
Item to be Scouted	Distribution Panelboards
Days to be scouted	15
Response Due By	02/13/2025
Description	Circuit breaker type and fusible switch type power distribution panelboards as shown on drawings.
Notify Requester Immediately	No
State item to be used in	Alabama

## Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Designing and engineering the panel layout, cutting and preparing the metal enclosure, bending and shaping the metal pieces to create the panel enclosure, punching holes for mounting components and wire entry points, applying finishes, installing electrical components like breakers and bus bars, wiring connections, quality testing, and final assembly.
Provide dimensions / size / tolerances / performance specifications for the item	Please see attached information sheet for list of specifications, dimensions, etc.
List required materials needed to make the product, including materials of product components	Incoming feeder lugs, cooper conductors, filler plates, wire terminals, ground bus, sub-feed lugs, and pressure wire connectors.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	Yes
Details	NECA 407 - Recommended Practice for Installing and Maintaining Panelboards NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum) NEMA AB 1 - Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit Breaker Enclosures NEMA FU 1 - Low-Voltage Cartridge Fuses NEMA PB 1 - Panelboards NEMA PB 1.1 - General Instructions for Proper Installation, Operation, and Maintenance of Panelboards Rated 600 Volts or Less NFPA 70 - National Electrical Code UL 50 - Enclosures for Electrical Equipment UL 67 - Panelboards UL 486A-486B - Wire Connectors UL 489 - Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit Breaker Enclosures UL 512 - Fuseholders
NAICS 1	335313 Switchgear and switchboard apparatus manufacturing
NAICS 2	
Additional Technical Comments	Products shall comply with BABBA.

## Section 4: Business Information

Estimated potential business volume	11 Units. One time purchase.
Estimated target price / unit cost information (if unavailable explain)	As this is related to BABBA, acceptable pricing is to be determined in negotiation.
When is it needed by?	9/1/2025
Describe packaging requirements	Store in clean, dry space. Maintain factory wrapping or provide additional canvas or plastic cover to protect from dirt, water, construction debris, and traffic.
Where will this item be shipped?	Tuscaloosa, AL

## Additional Comments

Is there other information you would like to include?	For BABBA related questions: University of Alabama POC: Joshua Bollinger jsbollinger@ua.edu
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## SECTION 262416.16 - DISTRIBUTION PANELBOARDS

### PART 1 - GENERAL

#### 1.1 RELATED WORK

- A Section 260519 - Low-Voltage Electrical Power Conductors and Cables
- B Section 260526 - Grounding and Bonding for Electrical Systems
- C Section 260529 - Hangers and Supports for Electrical Systems
- D Section 260548 - Vibration and Seismic Controls For Electrical Systems
- E Section 260553 - Electrical Systems Identification
- F Section 260573 - Power System Studies
- G Section 260812 - Power Distribution Acceptance Tests
- H Section 260813 - Power Distribution Acceptance Test Tables
- I Section 262713 - Electrical Metering
- J Section 262813 - Fuses

#### 1.2 REFERENCE

- A Products shall comply with the Build America, Buy America Act (BABBA). Provide all information to certify compliance. Refer to Division 00 and Division 01 for additional information.

#### 1.3 DESCRIPTION

- A Section includes circuit breaker type and fusible switch type power distribution panelboards as shown on drawings and as scheduled.
- B Distribution panelboards are limited to 800A main bus capacity. Equipment with bus rating of greater than 800A must be switchboard construction.

#### 1.4 REFERENCE STANDARDS

- A NECA 407 - Recommended Practice for Installing and Maintaining Panelboards
- B NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum)

- C NEMA AB 1 - Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit Breaker Enclosures
- D NEMA FU 1 - Low-Voltage Cartridge Fuses
- E NEMA KS 1 - Enclosed and Miscellaneous Distribution Equipment Switches (600 Volts Maximum)
- F NEMA PB 1 - Panelboards
- G NEMA PB 1.1 - General Instructions for Proper Installation, Operation, and Maintenance of Panelboards Rated 600 Volts or Less
- H NFPA 70 - National Electrical Code
- I UL 50 - Enclosures for Electrical Equipment
- J UL 67 - Panelboards
- K UL 486A-486B - Wire Connectors
- L UL 489 - Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit Breaker Enclosures
- M UL 512 - Fuseholders

## 1.5 SUBMITTALS

### A Product Data:

1. Submit catalog data showing specified features of standard products. Eliminate extraneous catalog data.

### B Shop Drawings:

1. Submit for review prior to manufacture. Include complete description, front view, dimensions, voltage, main bus ampacity, circuit breaker fusible switch arrangement and sizes, short circuit current rating, and factory settings of individual protective devices.
2. Submit 1/4" scale electrical room floor plans with panelboard locations.
3. Shop drawings that are not complete and/or not properly checked by the contractor will be rejected.
4. Submit features, characteristics, ratings, and factory settings of individual overcurrent protective devices and auxiliary components.

### C Partial Submittals:

1. Panelboards shall be submitted for review together. Partial submittals of panelboards are not acceptable and will be rejected.

### D Manufacturer's Installation Instructions:

1. Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of product.

E Test Report:

1. Indicate field test and inspection procedures and interpret test results and corrective action taken for compliance with specification requirements.

F Closeout Submittals:

1. Project Record Documents:
  - a. Record actual locations of panelboards and record actual circuiting arrangements.
2. Operation and Maintenance Data:
  - a. Include manufacturer's recommended operating instructions, maintenance procedures and intervals, and preventive maintenance instructions.
  - b. Include manufacturer's written instructions for testing and adjusting overcurrent protective devices.
  - c. Include time-current curves and selectable ranges for each type of overcurrent protective device.
  - d. Include spare parts data listing, source, and current prices of replacement parts and supplies.

## 1.6 QUALITY ASSURANCE

- A Obtain panelboards, overcurrent protective devices, components, and accessories from one source and by a single manufacturer.

B Regulatory Requirements:

1. Comply with NFPA 70.
2. Furnish products listed and classified by Underwriters Laboratories, Inc., as suitable for purpose specified and indicated.

## 1.7 DELIVERY, STORAGE, AND HANDLING

- A Store in clean, dry space. Maintain factory wrapping or provide additional canvas or plastic cover to protect from dirt, water, construction debris, and traffic.

- B Comply with NEMA PB 1.1 and manufacturer's written instructions.

## 1.8 WARRANTY

- A Refer to Division 01 and Section 260000 - General Electrical Requirements for general warranty requirements.

- B Manufacturer shall provide standard 1 yr written warranty against defects in materials and workmanship for products specified in this Section. Warranty period shall begin on date of substantial completion.

## 1.9 MAINTENANCE

### A Extra Materials:

1. Furnish Owner with two keys per panelboard.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A Schneider Square D
- B ABB-GE Industrial Solutions
- C Eaton Cutler Hammer
- D Siemens

### 2.2 POWER DISTRIBUTION PANELBOARDS

#### A NEMA PB 1, UL 67.

#### B Fabrication:

1. Factory assembled
2. Individualized breaker fusible switch dead-front cover door-in-door construction
3. Incoming feeder lugs: copper conductors
4. Multiple lugs to match number of conductors per phase
5. Sub-feed (double) lugs, or feed-through lugs where indicated
6. Filler plates
7. Wiring terminals for field installed conductors: Pressure wire connectors, except wire-binding screws for #10 AWG or smaller conductors.
8. Barriers shall be placed such that no uninsulated, ungrounded service busbar or service terminal is exposed to inadvertent contact by persons or maintenance equipment while servicing load terminations.

#### C Panelboard Buses:

1. Copper
2. Ampere rating as scheduled
3. Ground bus: uninsulated, bonded to panelboard cabinet
4. Insulated neutral bus where applicable: 100% of phase bus rating

#### D Molded-Case Circuit Breakers:

1. NEMA AB 1, UL 489
2. Bolt-on or I-line type, labeled for 75°C copper and aluminum conductors
3. Equipped with individually insulated, braced, and protected connectors

4. Common internal trip on multi-pole breakers. Handle-ties are not permitted.
5. Ampere rating as scheduled
6. Front face flush with each other
7. Large, permanent, individual circuit numbers affixed to each breaker in uniform position
8. Tripped indication clearly shown by breaker handle taking position between "ON" and "OFF."
9. Listed as Type HACR for air conditioning equipment circuits
10. Bussing, device mounting hardware, and steel knockouts in dead front where "space" is indicated
11. For 225A frame size and below: thermal-magnetic trip
12. For 250A frame size and above: electronic trip units interchangeable in the field within the frame size and field-adjustable long and short time pickup levels, long and short time delay adjustments, and instantaneous current settings. Each adjustment shall have discrete settings and shall be independent of all other adjustments.

E Cabinet

1. NEMA 250, UL 50
2. NEMA Type 1, Type 3R (outdoor locations) enclosure.
3. Four-piece front (trim) surface mounted with door over the front, with concealed self-adjusting trim clamps, and complete with cylinder-type lock and catch.
4. Same height matching trim, where two cabinets are mounted adjacent to one another in finished areas.
5. All sections of panelboards have the same size, where oversize cabinets are required for one section of multi-section panelboard.
6. Boxes and fronts made of code-gauge galvanized steel
7. Manufacturer's standard gray enamel finish over prime coat.

2.3 METERS

A Provide meters as indicated on plans

1. Provide separate metering compartments with digital meter in accordance with Section 262713 - Electrical Metering.

2.4 SHORT CIRCUIT CURRENT RATING

- A Each panelboard with minimum short circuit current rating as indicated on drawings.
- B Panelboards marked with their maximum short circuit current rating at supply voltage.
- C Panelboards: Fully rated; series-rating is not allowed.

2.5 SURGE PROTECTIVE DEVICES (SPD)

- A Per requirements in Section 264300 - Surge Protective Devices (SPD).

PART 3 - EXECUTION

### 3.1 COORDINATION WITH MANUFACTURER

- A Instruct manufacturer about the location of additional wiring gutter space when required, i.e. top, bottom, right, left, or combination.
- B Instruct manufacturer about the location of main lugs or main circuit breaker (i.e., top or bottom feed based on incoming feeder entrance location).
- C Instruct manufacturer to provide multiple lugs where conductors in parallel or sub-feed (double) lugs or feed-through lugs are indicated.
- D Instruct manufacturer on the size of cross-connection cables for panelboards fed via sub-feed (double) lugs or feed-through lugs. Make cable size with ampacity equal to incoming feeder.
- E Verify that "touch-up" paint kit is available for repainting.
- F Coordinate painting of cabinets in finished areas with work performed under Division 09 - Finishes

### 3.2 EXAMINATION

- A Verify that space indicated for panelboard mounting meets code-required working clearances and dedicated equipment space.
- B Notify Architect/Engineer of any discrepancies prior to submittal of product data and shop drawings.

### 3.3 INSTALLATION

- A Install panelboards in accordance with NECA 407 and NEMA PB 1.1.
- B Install panelboards plumb and rigid without distortion of box, in accordance with manufacturer's written instructions, and in compliance with recognized industry practices.
- C Install top breaker handle a maximum of 6'-7" above finished floor or working platform, with handle in its highest position.
- D Tighten electrical connectors and terminals according to equipment manufacturer's published torque tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A-486B.
- E Install as-built typewritten circuit directory in directory frame (to indicate installed circuit loads before completing load balancing) mounted inside each panelboard door. Include description of connected loads, room number, room name, area, or item served for each branch circuit. Indicate motor names and horsepower as applicable. Cover circuit directory with colorless plastic. Coordinate with Owner and Architect to ensure that room numbers used in panel directory are final numbers assigned by Owner.



- F Install engraved plastic nameplates under provisions of Section 260553 - Electrical Systems Identification. Attach nameplate to exterior of each panelboard using small, corrosion-resistant metal screws or rivets. Do not use contact adhesive.
  - 1. Indicate panelboard name, amperage, voltage, phase, and number of wires.
- G Label spare circuits as SPARE. Leave spare breakers in OFF position.
- H Room numbers used shall be those used by Owner except as otherwise directed by Architect.
- I Install panelboard in dedicated electrical space per NFPA 70 and as shown on drawings. Coordinate with miscellaneous trades for equipment foreign to the electrical installation to be outside of dedicated electrical space.
- J Install filler plates in unused spaces.
- K Install fuses in fusible switches, per requirements in Section 262813 - Fuses.

### 3.4 CONNECTIONS

- A Ground panelboards according to Section 260526 - Grounding and Bonding for Electrical Systems.
- B Connect wiring according to Section 260519 - Low-Voltage Electrical Power Conductors and Cables.

### 3.5 FIELD QUALITY CONTROL

- A Inspect for physical damage, proper alignment, anchorage, and grounding.
- B Test circuit breakers per requirements in Sections 260812 - Power Distribution Acceptance Tests and 26 0813 – Power Distribution Acceptance Test Tables.
- C Interpret test results in writing and submit to Engineer.

### 3.6 REPAINTING

- A Remove paint splatters or other marks from surface of panelboards.
- B Touch-up chips, scratches, or marred finishes to match original finish, using manufacturer-supplied paint kit. Leave remaining paint to Owner.

### 3.7 ADJUSTING

- A Adjust fronts, covers, hinges, and locks.

- B     Circuit Breakers: Set field-adjustable trip settings or change the trip settings recommended by the overcurrent protective device coordination study supplied by the EOR.

### 3.8     CLEANING

- A     Clean panelboard interiors and exteriors prior to final inspection. Remove paint splatters and other spots, dirt and debris.

END OF SECTION 262416.16



MAIN TYPE

MCB

VOLTAGE

120/208 Wye

LOCATION

LEVEL 01,CUP ELEC 1010

MAIN RATING

250 A

3 PHASE

4 WIRE

FED FROM

T-1NPL1

BUS RATING

250 A

MOUNTING SURFACE

ENCLOSURE

Type 1

SCCR

10 KA

CALCULATED AVAILABLE FAULT...

5.3 KA

REMARKS:

DESCRIPTION	BRKR NOTES	BRKR AMP. POLES	CKT NO	LEFT SIDE, KVA			RIGHT SIDE, KVA			CKT NO	BRKR AMP. POLES	BRKR NOTES	DESCRIPTION	
				A	B	C	A	B	C					
EW-1 - CUSTODIAL #1009		40 A 2	1	3.00			0.90			2	1 20 A		SMR REC - MDF-S #1004	
	--	--	3		3.00			0.72		4	1 A	--	SMR REC - MDF-S #1004	
PP-2 - CUSTODIAL #1009		15 A 1	5			0.60			1.08	6	1 20 A		SMR REC - MDF-L #1017	
REC - #1001, #1002		20 A 1	7		0.72		0.90			8	1 20 A		SMR REC - MDF-L #1017	
REC - #1003		20 A 1	9			0.72		0.50		10	1 20 A		UV LIGHTS - DOAS-1	
REC - BR #1007, #1008, JAN, #1009		20 A 1	11			0.54			0.50	12	1 20 A		UV LIGHTS - RTU-1	
REC - #C002		20 A 1	13		0.54		1.50			14	1 20 A		DAMPERS - DOAS-1	
REC - #C001A, 1001, 1005		20 A 1	15		0.72			0.50		16	1 20 A		OIL SEPARATOR CTRL - CUP	
REC - HPC HVAC #1019		20 A 1	17			0.54		0.36		18	1 20 A		REC - ENTRPR DC HVAC - SHELL	
REC - HPC ELEC #1018 WALL		20 A 1	19		0.54		0.27			20	1 20 A		LIGHTS - L1 - RESTROOMS	
REC - HPC ELEC #1018 UNISTRUT		20 A 1	21			0.72		0.46		22	1 20 A		LIGHTS - L2 - RESTROOMS/NURSING	
REC - CUP #1011		20 A 1	23			1.44			0.50	24	1 20 A		LIGHTS/RECS - DOAS-1	
WATER FOUNTAIN - CORR. #C003	GF	20 A 1	25		0.50		0.00			26	1 20 A		SPARE	
REC - #1013, #1012, #1015		20 A 1	27		1.26			0.00		28	1 20 A		SPARE	
REC - CORR. #C003		20 A 1	29			1.08		0.00	30	1 20 A		BL	1NPL2	
REC - EAST EXTERIOR		20 A 1	31			0.72	8.86			32	3 100 A		--	
EF-1		20 A 1	33		0.70			5.51		34	--	--	--	
EF-2		20 A 1	35			1.18			5.51	36	--	--	--	
REC - CUP ELEC. #1010		20 A 1	37		0.72		8.56			38	3 100 A	BL	2NPL1	
LIGHTS/RECS - RTU-1 & 2		20 A 1	39			1.00		8.84		40	--	--	--	
UV LIGHTS - RTU-2		20 A 1	41			0.50		6.76	42	--	--	--	--	
PHASE SUBTOTAL (KVA)				27.73 KVA			24.65 KVA			20.59 KVA				
PHASE SUBTOTAL (AMPS)				236 A			211 A			172 A				

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	24.50 KVA	100%	24.50 KVA
LIGHTING	0.74 KVA	100%	0.74 KVA
MOTOR	7.88 KVA	125% LARGEST, 100% OTHER	7.98 KVA
RECEPTACLE	40.02 KVA	100% FIRST 10KVA, 50% OTHER	40.02 KVA
HEATING	0.00 KVA	100%	0.00 KVA
TOTAL LOAD	73.18 KVA		73.60 KVA
TOTAL AMPS	203 A		204 A

1NPL2

MAIN TYPE		MCB	VOLTAGE		120/208 Wye		LOCATION		CUP ELEC 1010					
MAIN RATING		100 A	3 PHASE		4 WIRE		FED FROM		1NPL1					
BUS RATING		100 A	MOUNTING SURFACE				SCCR		10 kA					
			ENCLOSURE		Type 1		CALCULATED AVAILABLE FAULT...		5.2 kA					
REMARKS:														
LEFT SIDE, KVA														
RIGHT SIDE, KVA														
DESCRIPTION		BRKR NOTES	BRKR AMP. POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP. POLES	BRKR NOTES	DESCRIPTION
EV CHARGING STATION 1		---	40 A 2	1	3.35			0.50			2	1 20 A		IRRIGATION CONTROLLER
		---	---	3		3.35			0.50	4	1 20 A			VEHICLE RSTRNT CTRL - DOCK
EV CHARGING STATION 2		---	40 A 2	5			3.35			0.50	6	1 20 A		VEHICLE RSTRNT CTRL - DOCK
		---	---	7	3.35			0.00			8	1 20 A		SPARE
SPARE		---	20 A 1	9		0.00			0.00		10	1 20 A		SPARE
SPARE		---	20 A 1	11			0.00			0.00	12	1 20 A		SPARE
DOCK LEVELER 1		---	15 A 3	13	0.83			0.00			14	1 20 A		SPARE
		---	---	15		0.83			0.00		16	1 20 A		SPARE
		---	---	17			0.83			0.00	18	1 20 A		SPARE
DOCK LEVELER 2		---	15 A 3	19	0.83			0.00			20	1 20 A		SPARE
		---	---	21					0.00		22	1 20 A		SPARE
		---	---	23			0.83			0.00	24	1 20 A		SPARE
SPACE		---	1 25	---				---			26	1	---	SPACE
		---	1 27	---				---			28	1	---	SPACE
SPACE		---	1 29	---			---			---	30	1	---	SPACE
		---	1 31	---			---			---	32	1	---	SPACE
SPACE		---	1 33	---			---			---	34	1	---	SPACE
SPACE		---	1 35	---			---			---	36	1	---	SPACE
SPACE		---	1 37	---			---			---	38	1	---	SPACE
SPACE		---	1 39	---			---			---	40	1	---	SPACE
SPACE		---	1 41	---			---			---	42	1	---	SPACE
					A	B	C							
PHASE SUBTOTAL (KVA)					8.86 kVA	5.51 kVA	5.51 kVA							
PHASE SUBTOTAL (AMPS)					74 A	46 A	46 A							
LOAD CLASSIFICATION		CONNECTED (KVA)			DEMAND FACTOR			DEMAND (KVA)						
POWER		13.40 kVA			100%			13.40 kVA						
LIGHTING		0.00 kVA			100%			0.00 kVA						
MOTOR		5.48 kVA			125% LARGEST, 100% OTHER			6.10 kVA						
RECEPTACLE		1.00 kVA			100% FIRST 10KVA, 50% OTHER			1.00 kVA						
HEATING		0.00 kVA			100%			0.00 kVA						
TOTAL LOAD		19.88 kVA						20.50 kVA						
TOTAL AMPS		55 A						57 A						

MAIN TYPE

MCB

MAIN RATING

100 A

BUS RATING

100 A

VOLTAGE

120/208 Wye

3 PHASE

4 WIRE

MOUNTING

Recessed

ENCLOSURE

Type 1

LOCATION

FED FROM 1NPL1

LEVEL

02 LAB...

SCCR

10 kA

CALCULATED AVAILABLE FAULT...

4.4 kA

REMARKS:

LEFT SIDE, KVA

RIGHT SIDE, KVA

DESCRIPTION	BRKR NOTES	BRKR AMP. POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP. POLES	BRKR NOTES	DESCRIPTION
MICROWAVE - BRK RM #2001			20 A 1	1	0.18		0.18			2	1	20 A	REC - AIRLOCK #2015
COFFEE - BRK RM #2001			20 A 1	3		0.18		0.18	0.18	4	1	20 A	REC - HPC(RESERVED) #2016A
FRIDGE - BRK RM #2001	GF		20 A 1	5		0.18			0.90	6	1	20 A	REC - NOC #2014 WEST
PRINTER - COPY/PRINT #2002B			20 A 1	7	0.18			0.90		8	1	20 A	REC - NOC #2014 EAST
REC - #2001, #2002B COUNTERTOP			20 A 1	9		0.36			0.18	10	1	20 A	REC - NOC #2014 DEED NORTH
REC - OPEN OFFICE #2002			20 A 1	11			1.26		0.18	12	1	20 A	REC - NOC #2014 DEED SOUTH
REC - PRIV. OFFICE #2003			20 A 1	13	1.26			0.36		14	1	20 A	REC - SHELL SPACE #2013
REC - PRIV. OFFICE #2004			20 A 1	15	1.08				0.36	16	1	20 A	REC - IT STORAGE #2012
REC - CLOSET #2002A			20 A 1	17		0.36			0.00	18	1	20 A	SPARE
REC - PUBLIC CORR. #C200			20 A 1	19	0.90			0.90		20	1	20 A	REC - ROOF
REC - BR #2005/06/07, JAN #2008/08A			20 A 1	21		1.08			0.90	22	1	20 A	REC - ROOF
WATER FOUNTAIN - CORR. #C201	GF		20 A 1	23	0.36		0.36		0.18	24	1	20 A	REC - PUBLIC CORR. #C200 AV
REC - MOTHERS #2009			20 A 1	25	0.36		0.18			26	1	20 A	REC - OPEN OFFICE #2002 AV
REC - CONF. AV #2010B			20 A 1	27	0.18			0.54		28	1	20 A	REC - BRK RM #2001
REC - CONF. #2010 WEST WALL			20 A 1	29		0.72			0.36	30	1	20 A	REC - PUBLIC CORR. #C200
REC - CONF. #2010 NORTH AND			20 A 1	31	1.08			0.90		32	1	20 A	REC - SMR LAB BUILD/TEST #2011
REC - CONF. #2010 SOUTH FLOOR			20 A 1	33	0.72			1.00		34	2	30 A	REC - SMR LAB BUILD/TEST #2011
REC - CONF. #2010 NORTH FLOOR			20 A 1	35		0.72			1.00	36	--	--	--
REC - LAB BUILD/TEST #2011			20 A 1	37	0.18		1.00			38	2	30 A	REC - SMR LAB BUILD/TEST #2011
REC - LEADERSHIP CLASS #2016			20 A 1	39		1.08			1.00	40	--	--	--
REC - PUBLIC CORR. #C200 SOUTH			20 A 1	41		0.54			0.00	42	1	20 A	SPARE
PHASE SUBTOTAL (KVA)				8.56 kVA		8.84 kVA		6.76 kVA					
PHASE SUBTOTAL (AMPS)				74 A		76 A		56 A					
LOAD CLASSIFICATION		CONNECTED (KVA)		DEMAND FACTOR		DEMAND (KVA)							
POWER		0.00 kVA		100%		0.00 kVA							
LIGHTING		0.00 kVA		100%		0.00 kVA							
MOTOR		0.00 kVA		125% LARGEST, 100% OTHER		0.00 kVA							
RECEPTACLE		24.16 kVA		100% FIRST 10KVA, 50% OTHER		24.16 kVA							
HEATING		0.00 kVA		100%		0.00 kVA							
TOTAL LOAD		24.16 kVA				24.16 kVA							
TOTAL AMPS		67 A				67 A							

MAIN TYPE

MCB

MAIN RATING

100 A

BUS RATING

100 A

VOLTAGE

480/277 Wye

3 PHASE

4 WIRE

MOUNTING

Surface

ENCLOSURE

Type 1

LOCATION

FED FROM

SCCR

14 kA

CUP ELEC 1010

T-1NPH1

CALCULATED AVAILABLE FAULT...

2.3 kA

REMARKS:

LEFT SIDE, KVA

RIGHT SIDE, KVA

DESCRIPTION	BRKR NOTES	BRKR AMP. POLES	CKT NO	A	B	C	A	B	C	CKT NO	BRKR AMP. POLES	BRKR NOTES	DESCRIPTION
LIGHTS - L1 - HPC ELEC		20 A	1	1	1.40					2			
LIGHTS - L1 - LOADING DOCK		20 A	1	3		1.16				4			
LIGHTS - CUP		20 A	1	5				1.67		6			
LIGHTS - LOBBY		20 A	1	7	1.60					8			
LIGHTS - L1 SHELL (FUTURE)		20 A	1	9		0.00				10			
LIGHTS - L2 - CORR/OFFICE		20 A	1	11				1.53		12			
LIGHTS - L2 - DATA HALL		20 A	1	13	2.13					14			
LIGHTS - L2 - DATA HALL		20 A	1	15		2.13				16			
LIGHTS - L2 - CONF/LAB/NO		20 A	1	17			1.31			18			
LIGHTS - L2 - SHELL		20 A	1	19	0.18					20			
LIGHTS - EXTERIOR		20 A	1	21		2.14				22			
LIGHTS - ENTRPRZ DC HVAC - SHELL		20 A	1	23			0.29			24			
LIGHTS - ENTRPRZ DC - SHELL		20 A	1	25	0.25					26			
				27						28			
				29						30			
				31						32			
				33						34			
				35						36			
SPACE	--	1	37	--			--	--	--	38	1	--	SPACE
SPACE	--	1	39							40	1	--	SPACE
SPACE	--	1	41							42	1	--	SPACE
PHASE SUBTOTAL (KVA)				5.56 kVA		5.43 kVA		4.80 kVA					
PHASE SUBTOTAL (AMPS)				20 A		20 A		17 A					

LOAD CLASSIFICATION	CONNECTED (KVA)	DEMAND FACTOR	DEMAND (KVA)
POWER	0.00 KVA	100%	0.00 KVA
LIGHTING	15.53 KVA	100%	15.53 KVA
MOTOR	0.00 KVA	125% LARGEST, 100% OTHER	0.00 KVA
RECEPTACLE	0.00 KVA	100% FIRST 10KVA, 50% OTHER	0.00 KVA
HEATING	0.00 KVA	100%	0.00 KVA
TOTAL LOAD	15.78 KVA		15.78 KVA
TOTAL AMPS	19 A		19 A