

Team Meeting

10/22/2018

Durham 110

Type of meeting:	Meeting with Client
Note taker:	Katayi Katanga

Attendees: Whole team, except Nur and Dr. Ajarapu.

Please read:

Please bring: Laptop

Minutes

Agenda item: Safety Moment

Presenter: Kat

Discussion:

This week, the safety moment was about how to safely reset a household circuit breaker. Before resetting a circuit breaker,

1. Turn off the light switches and unplug appliances in the room that has lost power.
2. Find your circuit breaker box and open the cover.
3. Locate the tripped breaker.
4. The tripped circuit breaker will be in the "off" position or in a middle position between "on" and "off."
5. Reset the breaker by moving it to the full "off" position and then back to "on."

Agenda item: Array/Solar Plant Wiring Diagram and Conductor Sizing

Presenter: Katayi

Discussion:

Katayi discussed our final array layout and how each component in the array is wired and connected. She also presented the average worst-case DCB voltage drop percentage and the wiring diagram of our entire solar power plant. Then, she explained how we did the conductor sizing for every cable that is used in the solar plant, including the IMP of each cable.

Conclusions:

Provide a clearer and more presentable voltage drop calculation sheet. Label the AutoCAD drawings.

Action items

✓ Review drawing and autocad

Person responsible

Kat and Nur

Deadline

11/5

Agenda item: Feeder **Presenter:** YJ

Discussion:

Presented the collector drawings based on calculations obtained by Ahmed and Tam.

Conclusions:

Feedback was to review the calculations and ensure that the inverter can handle that amount of current. The client requested that the students redo the autocad drawings to make things more visible.

Action items	Person responsible	Deadline
✓ Review fuse/circuit breaker rating	YJ and Tam	11/5

Agenda item: Collector & Feeder AutoCAD and Parameter Calculations **Presenter:** Ahmed

Discussion:

Ahmed presented calculations for the collector using equations found online. The single inverter skid output current is 30.64A. The output of transformer will be collected with 8 AWG copper conductor and Another collector with 1 AWG size will collect and combine all the current and deliver it to the feeder.

Conclusions:

Feedback was to review the calculations and ensure that the inverter can handle that amount of current. The client requested that the students redo the autocad drawings to make things more visible.

Action items	Person responsible	Deadline
✓ n/a		

Action Item List

Item	Description	Date Added	To Be Completed By	Date Closed	Scheduled Completion Date	Notes
Review all documents	make sure things are neat enough to present to client	10/29	11/5			Nur and Katayi
Feeder	Conductor sizing and AutoCAD drawing.	10/29	11/5			Tam and YJ
Collector calculations	Figuring out the parameters for collector	10/29	11/5			Ahmed and Chufu
Drawing List	Come up with a numbering system for all drawings	10/29	11/16			Student Team
Power Plant and Substation Name	Come up with a name for the plant name	10/29	11/16			Student Team

Other Information

Resources:

NEC document

Special notes: None