

EE 492 – sdmay19-26

115kV / 34.5kV SOLAR POWER PLANT/SUBSTATION DESIGN PROJECT

Week 3 Report

Monday (1/28/2019) – Sunday (2/3/2019)

Client: Black & Veatch

Advisor: Venkataramana Ajjarapu

Team Email: sdmay19-26@iastate.edu

Team Members:

Katayi Katanga

Nur Shuazlan

Yao Cheah

Chufu Zhou

Tam Nguyen

Weekly Summary:

This week, we had one meeting with our client, Black and Veatch. In our meeting with the client, we presented the three relays drawings (Back up, primary and Installation relays) and the Bank 1 Aux diagram. Also, we came up with questions about the drawings we were working on. Then, we continued working on the Back-up protection diagram, Bank 1 Annunciator diagram and started working on DC Auxiliary diagram, comm outside diagram and comm rtu diagram, and Distributed I/O Board.

Summary of Client meeting:

- Tam did safety moment about clearing snow and ice safely.
- Then, we discussed the updates on the drawings:
 - YJ discussed the changes he made on installation relay.
 - YJ asked Cole and Patrick about the ALARM port that was connected to SEL-2440 in project scope and Cole said he will get back to the team about it.
 - Nur discussed the changes she made on primary relay and part that was taken from installation relay drawing
 - Back-up relay updates weren't presented as drafter Katayi is not present.
 - Bank 1 aux was presented by Chufu.
 - Bank 1 annunciator drawing was presented by Tam with questions to be answered by Cole.

Past Week Accomplishments:

Katayi Katanga

- Worked on the Back-up protection diagram.
- Checked Installation relay diagram and Bank 1 AUX diagram.

Nur Shuazlan

- Completed the Primary relay diagram.
- Checked Installation relay diagram.

Yao Cheah

- Completed the Installation relay diagram.
- Checked Primary relay diagram.

Chufu Zhou

- Completed the Bank 1 AUX diagram.
- Checked Primary relay diagram.

Tam Nguyen

- Worked on Bank 1 Annunciator diagram.
- Checked Bank 1 AUX diagram.

Pending Issues:

- Waiting for feedback from the client regarding the drawings.

Plans For Next Week:

Katayi Katanga

- Continue working on Back-up protection diagram.
- Check DC Auxiliary diagram, comm outside diagram, and Distributed I/O Board.

Nur Shuazlan

- Work on DC Auxiliary diagram.
- Check comm outside diagram and Bank 1 Annunciator diagram.

Yao Cheah

- Work on comm outside diagram.
- Check Distributed I/O Board and Back-up protection diagram.

Chufu Zhou

- Work on Distributed I/O Board.
- Check Bank 1 Annunciator diagram.

Tam Nguyen

- Continue working on Bank 1 Annunciator diagram.
- Check DC Auxiliary diagram and Back-up protection diagram.

Individual Contributions

Team Member	Individual Contributions	Hours	Cumulative Hours
Katayi Katanga	Did research on: <ul style="list-style-type: none"> - Project scope Created/Performed: <ul style="list-style-type: none"> - AutoCAD modification to the diagram 	6	17

	- attended all meetings		
Nur Shuazlan	<p>Did research on:</p> <ul style="list-style-type: none"> - Project scope <p>Created/Performed:</p> <ul style="list-style-type: none"> - AutoCAD modification to the diagram - attended all meetings 	6	17
Yao Cheah (YJ)	<p>Did research on:</p> <ul style="list-style-type: none"> - Project scope <p>Created/Performed:</p> <ul style="list-style-type: none"> - AutoCAD modification to the diagram - attended all meetings - Website update 	6	16
Tam Nguyen	<p>Did research on:</p> <ul style="list-style-type: none"> - Project scope <p>Created/Performed:</p> <ul style="list-style-type: none"> - Edit AutoCAD drawings. - Attend all meetings. 	6	16
Chufu Zhou	<p>Did research on:</p> <ul style="list-style-type: none"> - Project scope <p>Created/Performed:</p> <ul style="list-style-type: none"> - Edit AutoCAD drawings. - Attend all meetings. 	6	15

Team Hours: 30

Cumulative Team Hours: 81