

EE 492 WEEKLY REPORT #5

3/13/2020 – 4/3/2020

Group number: Sdmay20-14

Project title: 115kV /34.5kV Solar Power Plant & Substation Design Project

Client &/Advisor: Black and Veatch / Venkataramana Ajjrapu

Team Members/Role: (Roles are rotated on an as needed basis) Jake Ciccola (Scribe / Client communications), Ethan Curnutte (Chief engineer), Ada Lupa (Test engineer), Blake Danek (Meeting facilitator), Michael Lortz (Design engineer), Bashir Mohamed (Test engineer)

Weekly Summary: These past two weeks, our group has mainly focused on working to complete various calculations for the substation. The calculations we will be completing are the grounding calculations, bus calculation, and battery calculation. In addition to this, our group has been working with our client in order to update our deliverables to work with the COVID-19 dilemma.

Past Week Accomplishments: As a group we worked on:

- **Member 1: Jake Ciccola**
 - Created a weekly agenda for our client along with the meeting minutes.
 - Completed assignments for EE 492 peer review presentation.
- **Member 2: Ethan Curnutte**
 - Worked on bus calculations for client as well as did research for the calculations
 - Started writing ground calculation report
- **Member 3: Blake Danek**
 - Watched and reviewed peer review presentations
 - Worked on substation calculations
- **Member 4: Ada Lupa**
 - Reviewed peer slides as per assignment
 - Updated the ground report
 - Started working on the bus calculations
- **Member 5: Michael Lortz**
 - Began working on the relay circuits to be shown on the one-line diagram as specified by Black and Veatch.
- **Member 6: Bashir Mohamed**

- Went through peer review slides, I have commented, given some suggestions, and asked questions as well.
- Read through the documents provided by Black & Veatch about the DC calculation.

Pending Issues: Work with client to ensure proper communication during COVID-19 outbreak.

Individual Contributions: (Total hours only reflect hours accumulated from weekly reports)

Team Member	Contribution	Weekly Hours	Total Hours
Ethan Curnutte	Started bus calculations, as well as worked on meeting agenda and client relations.	6	49
Ada Lupa	Looked through the material necessary for the bus calculations and began the process. Uploaded the weekly report to the group website.	5	48
Jake Ciccola	Communicated with the client to update deliverables. Created agenda and meeting minutes. EE 492 peer presentation assignments.	5	48.5
Blake Danek	Worked on bus calculations as well as peer reviewing presentations	5	47.5
Michael Lortz	Re-formatted sheet layout to have zones of protection on one sheet, and relays on another	4	48
Bashir Mohamed	I will be working on preparing deliverables. And finishing bus calc as well.	6	47

Plans For The Upcoming Week:

- **Member 1: Jake Ciccola**
 - Email client and advisor to ensure proper communication.
 - Work to complete various calculations.
- **Member 2: Ethan Curnutte**
 - Complete various calculations and reports for client
- **Member 3: Blake Danek**
 - Make corrections to documents for client
 - Continue working on bus calculations
- **Member 4: Ada Lupa**
 - Finish the bus calculations
 - Keeping clear communication of the changes that will be made due to COVID-19
- **Member 5: Michael Lortz**
 - Finish adding in all relays to one-line diagram, remove CTs near transformer.
- **Member 6: Bashir Mohamed**
 - Work on Dc calculations.
 - Incorporate any suggestions, Finishing online diagram and battery charger sizing.