

EE 491 WEEKLY REPORT #6

12/2/19 – 12/9/19

Group number: Sdmay20-14

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

Client &/Advisor: Black and Veatch / Venkataramana Ajarapu

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: This week, we finished up our final presentation of the solar farm and also began working on the substation portion of our project. Also, we worked on our final design document and our final presentation.

Past Week Accomplishments: As a group we worked on:

- **Member 1: Jake Ciccola**
 - Finished meeting agenda and sent it to client.
 - Finished rough draft of design document in order to get reviewed by TA.
- **Member 2: Ethan Curnutte**
 - Researched substation information
 - Finished voltage drop calculations in preference to client
 - Worked on design document and meeting agenda
- **Member 3: Blake Danek**
 - Made corrections to the voltage drop calculations. This led to our finalizations of our wire sizes and efficiency ratings. Continued working on the design document and final presentation for the end of the semester.
- **Member 4: Ada Lupa**
 - Set up the website (imported papers, set up team bio, created the intro page, etc...)
 - worked on the design document.
- **Member 5: Michael Lortz**
 - Reviewed substation design documents
 - Made adjustments to solar layouts per client requests
- **Member 6: Bashir Mohamed**
 - Reviewed substation material provided by Black Veatch.

- Contributed to finalizing design document.as well as looking at the finalized voltage drop calculation.

Pending Issues: There were no issues this week.

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

Team Member	Contribution	Weekly Hours	Total Hours
Ethan Curnutte	Finished voltage drop calculations, worked on design documents and meeting agendas for client	7	44
Ada Lupa	Set up the website and went through all materials to make sure they are up to par. Edited the design document. Researched about substation design for next semester.	9	45
Jake Ciccola	Finished final version of design document. Reviewed substation materials. Filled out and sent meeting agenda and meeting minutes to client. Worked on the final presentation.	8	42.5
Blake Danek	Worked on updating the design document with corrections. Began working on substation including one-line diagrams. Made final corrections to the voltage drop calculations. Worked on the final presentation for the design panel.	8	43
Michael Lortz	Finished solar array layout per clients request, design document	7	43
Bashir Mohamed	Worked on the finishing design document Researched & Collected information for the	7	43

	substation design.		
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Plans For The Upcoming Week:

- **Member 1: Jake Ciccola**
 - Continue reviewing substation materials provided by client in order to gain a deeper understanding for next semester topics. Finish and practice our final presentation.
- **Member 2: Ethan Curnutte**
 - Work on material for substation material, I will also continue to work on deliverables for the project.
- **Member 3: Blake Danek**
 - Continue researching one-line diagrams and begin work on the substation design process. Finish deliverables for the end of the semester and practice presentation.
- **Member 4: Ada Lupa**
 - Finishing setting the website
 - Research into the substation design and the effects of a single line
 - Help finish the final parts of the design document.
- **Member 5: Michael Lortz**

- Work on finishing up the design documents and look through the materials sent about substation design.
- **Member 6: Bashir Mohamed**
 - I will keep researching & collecting substation literature.
 - I will look at the single line. And the layout of a substation design too.
 - Start preparing presentation document.