

sdmay23-27: 115kV/34.5kV Solar Power Plant & Substation Design Project

Week 6 Report

October 29 - November 4

Team Members

Madison Lakomek — *Researcher*

Brooke Nelson — *Researcher*

Ashton Randolph — *Researcher*

Jacob Miller — *Meeting Minutes Recorder*

Jenna Runge — *Researcher*

Madissen Lawrence — *Researcher*

Zachary Zimmerman — *Leader*

Omer Karar — *Researcher*

Summary of Progress this Report

We completed the AutoCAD drawing for the solar array. We learned the requirements needed for the cable trench fill. We are currently a month ahead of schedule, so we largely took this last week off from the project to allow team members to catch up on other work and study for exams. Meeting with Ajarupu was canceled due to no updates on either end this week, and meeting with Black and Veatch consisted of an overview of the updates to / finalization of CAD design.

Pending Issues

Update the cost analysis with the new smaller array included into material cost. Complete bill of materials. Complete fencing and cable trench fill information.

Plans for Upcoming Reporting Period

This week we plan to meet to work on completing the cost analysis by writing out a complete bill of materials for the solar array. We also plan to complete the cable trench fill requirements. Plan to meet with Ajarupu and meet with Black & Veatch.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Madison Lakomek	I attended the group meeting to discuss what work needs to be done during the week. I also began working in the bill of materials and updating the cost analysis.	1	0
Brooke Nelson	Attended the group meeting to discuss what works needs to be done next week as well as discuss the ethics and professional	1	0

	responsibilities assignment.		
Ashton Randolph	Attended Black and Veatch and group meetings to discuss work for next week as well as the ethics assignment.	1	0
Jacob Miller	Attended all group meetings this week, recorded meeting minutes for the Black and Veatch meeting, and worked on the group assignments such as the report and design document.	2	0
Jenna Runge	attended group meetings to discuss what to finish for solar array design, attended Black and Veatch meeting, and worked on EE 491 assignments.	3	0
Madissen Lawrence	Researcher, I attended all meetings, updated the ETG website, emailed the weekly report, and worked on the weekly report and design document.	3	0
Zachary Zimmerman	I attended and led team meetings, created safety moment and new technology section for clients, finished cover page, key plan, racking details, calculations page on CAD drawings.	10	
Omer Karar	Worked with my group on the class project. Attended a group discussion about solar panels and a meeting with Black and Veatch.	1	0

Gitlab Activity Summary

Nothing to report.
