

Report Period: Aug 31- Sep 13

Advisor: James D. McCalley

*Members: Joseph Miller, Chandler Cox, Owen Swanberg, Aladdin Adam,
Mohammad Habib, Zachary Lewis*

Project Title: 138kV Cyclone Substation Design

❖ **Summary of Progress in this Period**

We met with the client and began to discuss the requirements of the project, expected deliverables, and the specific standards we should consider in the design phase of our project. We then made a sketch of the major equipment that needs to be included in our design. Doing this helped us understand what needs to be done and also helped us develop action items.

With the help of the sketch we were able to work with our client to produce a time-line of the project. This is helpful in determining how long we should spend on each aspect of the design. After determining a timeline for the project we split our team into two smaller groups to tackle the one-line and plan-view. Splitting the team in this way allows for us to keep every member busy and engaged in the project. As the semester continues, the group members will change so that way we all have an opportunity to work with one another and gain design experience.

❖ **Pending Issues**

- We need to determine what the appropriate equipment spacing needs to be
- We need to determine how to assign ANSI device numbers to some of the relays

❖ **Plans for Upcoming Reporting Period**

In the upcoming period we plan to begin to work on the detailed design of the substation. Specifically, we will begin to work on the one-line and plan-view. These documents are the key to all of our future work so getting a strong start on these will be important. We will continue to have bi-weekly meetings with the client to ask questions and hear their opinions on our design.
