

Report Period: Oct 19- Nov 01

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**

Comments were received for both the one-line and plan-view drawings. The comments from the one-line were largely formatting suggestions. For example, currents go into the sides of the relays and potentials should go into the top of the relays. For the plan-view the suggestion was to move the control building to be further away from the line exits. Significant progress was made on the conduit/raceway plan, foundation plans, and elevation views. Contact with Burns & McDonnell was established to ask about getting access to software required for the grounding study.

❖ **Pending Issues**

- We need to determine how to access the CDEGS grounding software
- Pick up comments concerning the one-line

❖ **Plans for Upcoming Reporting Period**

The foundation plan, conduit/raceway plan, and the elevation view all need to go through the QA/QC process and be issued on 11/06/2020. Work will begin on the lightning study and grounding study which are set to be issued on 11/25/2020. We will also be working on the last version of the design document and preparing for the faculty presentation. We will continue to meet bi-weekly with the client to cover any questions that we have during the design process.
