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**EE/CprE/SE 492 WEEKLY REPORT 08**

**2/09/2021- 2/22/2021**

**Group number: SDMAY21-04**

**Project title: 138kV Cyclone Substation Design**

**Client &/Advisor: Burns & McDonnell**

**Team Members/Role: Chandler Cox (Meeting Facilitator), Owen Swanberg (Scribe), Zachary Lewis (Report Manager), Aladdin Adam (QA/Qc Manager), Mohammad Habib (Report Manager), Joseph Miller (Head Engineer)**

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**Bi-Weekly Summary**

*Since our finalization of both our AC/DC study and our lightning study, our team held an internal QA/QC review of both studies to address any concerns we had. After this meeting, our team submitted both of our studies to our client, Burns & McDonnell, for review. Our team held an additional meeting to discuss the possibility of a grounding study report, to assign the tasks of panel layout, schematics creation and set deadlines for each of these.*

**Past week accomplishments**

- Chandler Cox – Participated in the QA/QC review for both the AC/DC Study and the Lightning Study. Finalized the AC/DC studies and submitted them to our client, Burns & McDonnell. Met with team to discuss the plan for the schematics diagram.
- Owen Swanberg – Participated in the QA/QC review for both the AC/DC Study and the Lightning Study. Met with team to discuss the plan for the schematics diagram.
- Zachary Lewis – Helped finalize the lightning study for the QA/QC meeting. Assisted in the QA/QC review of the AC/DC study. Began working on the Breaker Schematics. Met with team to discuss the plan for the schematics diagram.
- Aladdin Adam – Participated in the QA/QC review for both the AC/DC Study and the Lightning Study. Began working on the Grounding Study.
- Mohammad Habib – Participated in the QA/QC review for both the AC/DC Study and the Lightning Study. Began working on the Grounding Study.
- Joseph Miller – Participated in the QA/QC review for both the AC/DC Study and the Lightning Study. Met with team to discuss the plan for the schematics diagram.

**Pending issues (If applicable: Were there any unexpected complications? Please elaborate.)**

- We need to discuss with Burns & McDonnell the following items:
  - *DC Schematics examples*
  - *Potential on either Breaker or Line Relay Schematics*

<b>Name</b>	<b>Individual Contributions</b>	<b>Hours this Period</b>	<b>Semester Hours</b>
Chandler Cox	Panel Layout	9	17
Owen Swanberg	Panel Layout	8	16
Zachary Lewis	Panel Layout	8	15
Aladdin Adam	Grounding Study	7	7
Mohammad Habib	Grounding Study	8	15
Joseph Miller	Panel Layout	10	18

**Plans for the upcoming Period**

- Chandler Cox – Working on Breaker Schematics and prepare meeting itinerary with Burns & McDonnell
- Owen Swanberg – Working on Breaker Schematics (Breaker 1).
- Zachary Lewis – Work on Breaker Schematics.
- Aladdin Adam – Working on Grounding Study.
- Mohammad Habib – Working on Grounding Study.
- Joseph Miller – Working on Breaker and Transformer Schematics.

