

EE/CprE/SE 491 – sdmay20-15

Substation Design

Bi-Weekly Report

January 30th– February 13th

Client:

Burns & McDonnell

Faculty Advisor:

James McCalley

Team Members:

Kaitlyn Ziska – Professor Client Liaison

Brian Mace – Chief Engineer

Brandon Kaas – Scribe

Salvador Salazar – Meeting Facilitator

Justin Fischbach – Test Engineer

Robert Huschak – Report Manager

Past Week Accomplishments:

ORGANIZATIONAL ACCOMPLISHMENTS:

Finish Rough Draft of DC Study

Start Review Process of AC Study & Submit First Draft of AC Study

TECHNICAL ACCOMPLISHMENTS:

1. Finalized and Submitted Draft of DC Study
 - a. Contained all relevant equipment and battery charger specifications for system
 - b. Proved with Datasheets and other technical documentation that system can run for the designed amount of time in a loss of power scenario
 - c. After comments are made, changes if needed, will resubmit for final design.
2. Start AC Study

- a. Identify AC LOADS
 - b. Determine Load rating
 - c. Each get a diversity factor, and multiply load by that factor
 - d. Total all equipment for summer and winter loading
 - e. SSVT size will be determined by study
3. Submit AC Study progress and wait for review.

Individual Contributions:

Team Member	Contribution	Bi-Weekly Hours (approx.)
Kaitlyn Ziska	Worked on AC Studies	15
Brian Mace	Worked on AC Studies	16
Brandon Kaas	Worked on AC Studies	12
Salvador Salazar	Worked on DC Studies	13
Justin Fischbach	Worked on DC Studies	16
Robert Huschak	Worked on DC Studies	15