

EE/CprE/SE 491 – sdmay20-15

Substation Design

Weeks 9 and 10

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

Bi-Weekly Summary:

Completing the schematic diagrams and wiring for the Substation. Multiple drawings detailing the relay connections for the protection and controls system as well as AC systems for power. Work was difficult transitioning to Online only for meetings as well coming back from break, less progress than normal but still sufficient.

Past Week Accomplishments:

ORGANIZATIONAL ACCOMPLISHMENTS:

- 1) Organized and named files for ease of reference and readability

TECHNICAL ACCOMPLISHMENTS:

- 1) submitted Protection and Control systems for the substation for review and rework.
 - a. Finished wiring the three 138kV breakers and 2 relays associated with them.
 - b. Draw connections on sample breakers and relays to coincide with scope document
 - d. Reference connections between drawings with proper labeling

Pending Issues: No pending issues. Ahead of schedule Individual Contributions:

Team Member	Individual Contributions	Bi-Weekly Hours
Kaitlyn Ziska	Meeting organization, paperwork	10
Brian Mace	Documentation, Quality Assurance	11.5
Brandon Kaas	Documentation, CAD overview	10.5

Salvador Salazar	Cad Work Client update	12
Justin Fischbach	Documentation, CAD Overview	10
Robert Huschak	Documentation, CAD Overview	10.5

Plan for Following 2 Weeks: 1) Submit final draft of protection schematics 2) Begin on finalizing protection schematics 3) Begin Wiring Diagrams 4) Peer Review of projects