

EE/CprE/SE 491 – sdmay20-15

Substation Design

Week 7 Report

October 9st – October 16th

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:

- o Review Changes to One-Line per request of client
- o Begin process of converting final One-Line to plan view with section views

TECHNICAL ACCOMPLISHMENTS:

- 1.) Begin working on physical drawings of substation
 - o Will be working with autoCAD to convert the chosen layout into a plan and equipment view for construction purposes
- 2.) Finalized One-Line Drawing and submitted to Burns & McDonnell for review
 - o Changes made after review was performed by clients engineers:

I. Fix wiring for wave trap position in circuit.

- changed to be wired in series not parallel

II. Added relay abbreviations under each relay

-corresponding to scope documents given

III.Change directional arrows on 21 and 67N elements on relay

- arrows should have been pointing in the direction of the line exit for the substation that the relay is related to.

IV. Fix overlapping wires, for ease of reading drawing

-also connect some missing wires

V. Add Indicator lights to each side of the CCVTs

VI. Add Surge arrestors to the drawing

Pending Issues:

- Wait for Burns & McDonnell's to supply plan views for next phase of work

Plans for Coming Week:

- Continue perfecting One-Line Drawing to be reviewed and returned from Burns and McDonnell
- When supplied start work on plan views.

Individual Contributions:

Team Member	Contribution	Weekly Hours
Kaitlyn Ziska	Fixed parts 1&6	8
Brian Mace	Fixed parts 3&5	7
Brandon Kaas	Fixed parts 1&6	8
Salvador Salazar	Fixed parts 3&5	7
Justin Fischbach	Fixed parts 2&4	9
Robert Huschak	Fixed parts 2&4	9