
EE/CprE/Se 492 WEEKLY REPORT 10

April 8, 2019- April 14, 2019

Group Number : sdmay19-17

Project Title: Substation Design

Client: Burns & McDonnell

Advisor: Manimaran Govindarasu

Team Members:

Jacob Heiller- Controls Engineer

Rebecca Franzen- Studies Engineer

Connor Mislivec- Quality Control Specialist

Riley O'Donnell- Administrator

Tom Kelly- Project Manager

Wilson Pietruszewski- AutoCAD Engineer

Nicolaus Cory- AutoCAD Engineer

Weekly Summary:

This week we submitted our final deliverable to Burns and McDonnell. This deliverable included the breaker schematics, transformer schematics, and line differential schematics. We spent the week making sure that the schematics were ready to go by drafting incomplete parts and picking up previous comments from Burns and McDonnell. We then performed a full QC check on all the completed schematics. While performing the QC check, we made comments to be drafted later. After all comments were added to the drawings, we drafted on the dwg files to submit to Burns and McDonnell for comments. Next week, we will focus on class deliverables and picking up comments on the schematics after receiving them from Burns and McDonnell.

Past Week Accomplishments:

- Breaker Schematics- Tom, Connor, and Jake
 - Drafted AC and DC schematics for breakers using protection document and one-line
 - Deleted contact assignments used on transformer schematics
- Line differential AC schematics- Wilson and Riley
 - Drafted AC schematics using protection document and one-line
 - Changed contact assignments and added breaker schematic drawing numbers
- Made changes on transformer schematics- Wilson and Riley

- Made changes based on comments from Burns and McDonnell
- Added drawings numbers from breaker schematics
- Changed contact assignments and added breaker schematic drawing numbers
- QC check on all schematics- Rebecca, Jake, Riley, Wilson, Connor, and Tom
 - Went through all drawings and made sure they matched the one-line
 - Went through all drawings and made sure they matched the protection document
 - Matched contact points for breaker and transformer schematics
 - Added comments for changes to be made
- Made changes on schematics following QC check- Wilson, Riley, Tom, Connor, and Jake
 - Edited drawings and ensured all comments were picked up
 - Sent drawings to client for review

Pending Issues:

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Individual Contributions:

Name / Role	Individual Contribution	Hours this week	Cumulative Hours
Rebecca Franzen	QC Check	3	133
Jacob Heiller	Breaker Schematics and QC Check	20	159
Tom Kelly	Breaker Schematics and QC Check	9	142
Connor Mislivec	Breaker Schematics and QC Check	9	140.5
Riley O'Donnell	Line Differential Schematics, Breaker Schematics, and QC Check	16	179
Wilson Pietruszewski	Line Differential Schematics, Breaker Schematics, and QC Check	20	186.5
Nicolaus Cory	Client Meeting	1	65.5

Comments and extended discussion:

Plan for the coming week:

- Presentation over breaker schematics- Jake, Tom, and Connor
- Work on final presentation and poster
 - Determine what we want to include from the project on both the poster and presentation
 - Create pdf of poster to be printed
- Make changes on schematics if necessary- Tom, Connor, Jake, Wilson and Riley
 - Pick up comments from Burns and McDonnell

Weekly Advisor Meeting Summary:

- Presentation over AC and DC Transformer Schematics - Riley and Wilson
- Discussed testing process
- Discussed poster and final presentation