

EE 491 Weekly Report | May15-01 | Week 13 (12/01/14 -12/08/14)

Advisors: Adam Literski, Dr. Ajarapu

Client: Black & Veatch Corporation

Members (roles): Matt Backes (Team Leader), Ryan Jerve (Communications Leader), Faran Malik (Communications Leader), Sohail Suryavanshi (Webmaster), Bhargav Gouni (Key Concept Holder), Kiran Rane (Key Concept Holder)

Project Title: 69kV / 12kV Substation Design Project

Weekly Summary:

We met up as a group on 12/2 and discussed some of the individual work that we have been working on. We received feedback for the key protection, panel layouts, and relay drawings. However, most of our time was spent working on the powerpoint slides and preparing for the final presentation, which was scheduled for 12/8.

Meeting Notes:

12/3 Group Meeting with Advisors

Before the meeting, we sent an email to Adam and Josephine with the final key protection drawing and the individual protection relays that some of our team members have been working on. Adam and Josephine sent us feedback over each of these drawings. During our meeting, we also discussed what we should include in our presentation. Adam and Josephine suggested giving a basic overview of our project and substations in general, since some professors may not be familiar with substations. They also suggested showing the gantt chart and to show the overall AutoCAD drawings of the relays so we don't make too many slides detailing the drawings.

12/2 Group Meeting

During our weekly team meeting (led by Sohail), we went over each member's work. We have decided to focus on creating our slides and preparing for the final presentation until the presentation is over. Matt worked on the slides for the gantt chart, cost incurred, and the primary relay drawing. Ryan worked on the title slide, lowside breaker, and control house layout. Faran worked on the project overview slide, agenda, and control house wiring diagram. Sohail worked on the slide with the Back Up relay as well as our plans for the next semester. Kiran worked on the concept block diagram slide and the protection slide. Bhargav worked on the key protection slide, deliverables, and protection slides. We also need to complete the final version of our design document for this semester. This task will be assigned to Bhargav, Ryan and Faran. Our individual work this week is to perfect our individual slides and practice our presentation.

- 1.) Sohail and Matt: Work on powerpoint and prepare for the presentation.
- 2.) Kiran and Bhargav: Work on powerpoint and prepare for the presentation.
- 3.) Ryan and Faran: Work on powerpoint and prepare for the presentation.
- 4.) Faran, Bhargav, and Ryan will also work on finalizing the design document for this semester.

Pending Issues:

1. Continuing the entire design process
2. Make changes to the following drawings based on feedback:
 - 2.1. Panel arrangement drawings
 - 2.2. Key protection drawing

- 2.3. Low side breaker
- 2.4. Back up relay
- 2.5. Primary relay
3. Design document final draft for this semester.

Plans for Next Week:

Tasks for each team member:

- 1.) Sohail and Matt: Work on powerpoint and prepare for the presentation.
- 2.) Kiran and Bhargav: Work on powerpoint and prepare for the presentation.
- 3.) Ryan and Faran: Work on powerpoint and prepare for the presentation.
- 4.) Faran, Bhargav, and Ryan will also work on finalizing the design document for this semester.

Current Individual Contributions

- Matt Backes: Attended weekly meetings. Worked on powerpoint and prepared for the presentation. (5 hours)
- Faran Malik: Attended weekly meetings. Worked on powerpoint and prepared for the presentation. (5 hours)
- Ryan Jerve: Attended weekly meetings. Worked on powerpoint and prepared for the presentation. (5 hours)
- Sohail Suryavanshi: Attended weekly meetings. Worked on powerpoint and prepared for the presentation. (5 hours)
- Bhargav Gouni: Attended weekly meeting. Worked on powerpoint and prepared for the presentation (5 hours)
- Kiran Rane: Attended weekly meetings. Worked on powerpoint and prepared for the presentation. (5 hours)

Total contributions for the project:

- Matt Backes (63 hours)
- Ryan Jerve (56 hours)
- Faran Malik (56 hours)
- Kiran Rane (55 hours)
- Sohail Suryavanshi (56.5 hours)
- Bhargav Gouni (56 hours)