

EE 491 Weekly Report | May15-01 | Week 12 (11/17/14 -12/01/14)

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:

Before Thanksgiving break, we met up as a group on 11/19 and discussed some of the individual work that we have been working on. We reviewed the updated project plan and some past feedback that we had gotten over it. In the feedback, it was suggested to add a testing section. Updates were made to the key protection, panel layouts, and also the relay drawing. The powerpoint presentation slides for the final project are also being worked on at the moment.

Meeting Notes:

11/20 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 said the key protection drawing looked great; however, we are still waiting on additional feedback. Bhargav, Ryan and Faran continued to work on the DC low side breaker scheme along with making some modifications to the BU relay based on some of the feedback Adam and Josephine sent to us. They suggested working on the panel arrangement drawings, because knowing the connections on the panel will make the breaker schemes much easier. Matt worked on updating the primary relay drawing. A revised project plan was also sent to B&V.

11/19 Group Meeting

During our weekly team meeting (led by Matt), we went over each member's work. Kiran and Matt sent the second version of the project plan to B&V. Bhargav is waiting on feedback for the Key Protection drawing from Adam and Josephine and showed some progress on some panel arrangement and lowside breaker work that he has been working with Faran and Ryan. Ryan worked on modifications to the BU drawing, such as fixing the alarm contact and relabeling the drawing. Faran started working on the slideshow for the final presentation. The following are the individual tasks that each person needs to work on during this next week:

- 1.) Sohail and Matt: Prepare for the presentation. Work on primary relay
- 2.) Kiran and Bhargav: Prepare for the presentation. Work on panel arrangement drawings and low side relay
- 3.) Ryan and Faran: Prepare for the presentation. Work on panel arrangement drawings, backup relay, and low side relay.

Pending Issues:

1. Continuing the entire design process
2. Waiting on feedback for:
 - 2.1. Panel arrangement drawings
 - 2.2. Key protection drawing

3. Dividing up tasks for final presentation
4. Design document second draft
5. Have the panel drawings finished by dead week.

Plans for Next Week:

Tasks for each team member:

- 1.) Sohail and Matt: Prepare for the presentation. Work on primary relay
- 2.) Kiran and Bhargav: Prepare for the presentation. Work on panel arrangement drawings and low side relay
- 3.) Ryan and Faran: Prepare for the presentation. Work on panel arrangement drawings, bu relay, and low side relay

Current Individual Contributions

- Matt Backes: Attended weekly meetings. Worked on primary relay (4.5 hours)
- Faran Malik: Attended weekly meetings. Worked on weekly report. Continued working on Low Side relay and powerpoint. (4 hours)
- Ryan Jerve: Attended weekly meetings. Worked on weekly report. Worked on low side relay and bu relay. (4 hours)
- Sohail Suryavanshi: Attended weekly meetings, worked on second draft of project plan. (6 hours)
- Bhargav Gouni: Attended weekly meeting, worked on panel arrangements, lowside, and key protection. (4 hours)
- Kiran Rane: Attended weekly meetings, worked on project plan version 2 and went over the primary relay drawing. (3.5 hours)

Total contributions for the project:

- Matt Backes (58 hours)
- Ryan Jerve (51 hours)
- Faran Malik (51 hours)
- Kiran Rane (49 hours)
- Sohail Suryavanshi (51.5 hours)
- Bhargav Gouni (51 hours)