
Black & Veatch's 138kV/13.8kV Substation Design Project

SDMay18-06

Faculty Advisor: Dr. Ajjarapu

EE 491 Weekly Report 8

Date: 11/9 to 11/15

Andrew Brown	-AutoCAD Director, Design Engineer
Eric Fritz	-Meeting & Communication Director, Test Engineer, Design Engineer
Brent Hines	- Project Lead, Materials, Executive Budget lead, Design Engineer
Gavin Christensen	-Chief Design Engineer
Weng Hoong Loo (Terry)	-Scheduling, Design Engineer

Summary of Progress this Report

This week the Gantt chart was updated to expand on each area to help us better understand how many drawings they contained. The titles of each area were also changed to be more descriptive. One such change was from Protection & Control Schematics to 89-1, 89-2, bank ann, bank aux, bkr flr, comm outside sta, comm rtu, dc aux, and IO Board.

Final touches were made to the AC diagrams. In AC 2 'B&V' was added to the description box. In AC 1 the areas highlighted by our B&V contact were corrected.

Back circles were improved by not placing back circles inside other back circles.

We went back through drawings to update them to conform with our current practices, such as using consistent fonts.

Pending Issues

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Andrew Brown	Finished Gantt chart modifications, modified drawings for main connection.	8	75
Gavin Christenson	Looked over panel diagrams and marked changes to be made.	10	70
Eric Fritz	Reviewed the AC 1 and specified changes that were needed. Prepared the meeting agenda comprised of questions needing to be answered, along with the documents that we will discuss. Recorded the details of the meeting with Black and Veatch and reported them in the prescribed bulleted format.	11	63
Brent Hines	Updated team website, completed changes to AC1 and AC2, began work on the panel arrangements of the various relays, banks, and buses. Made changes this week including bank renaming, circuit breaker changes, appropriate feeder changes and circuit switches.	10	78
Weng Hoong Loo (Terry)	Weekly Meetings, worked on the changes on panel drawings which includes arrangements of	10	78

	the various relays, banks, and buses. Made changes this week including bank renaming, circuit breaker changes, appropriate feeder changes and circuit switches.		
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Plans for Coming Week

- Create a drawing list that contains the names of all the drawings to be worked on.
- Work on the panel drawings and relays.