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

SDMay18-06

Faculty Advisor: Dr. Ajjarapu

EE 491 Weekly Report 5

Date: 3/10/2018 to 3/23/2018

Andrew Brown	-AutoCAD Director, Design Engineer
Eric Fritz	-Meeting & Communication Director, Test Engineer, Design Engineer, Quality Assurance
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

In our meetings we emphasize safety through continuing education. We rotate through our team and each week one person presents on an issue they deem important. In this period we met with Black & Veatch only once and so we had a single safety moment where Brent presented on the importance and execution of proper lifting technique.

We completed CB 4 Relay (1806-007), Primary Relay (1806-005) and made great progress toward the completion of Breaker Failure (1806-022).

In our internal review we found that our document standards have improved greatly over time meaning that before our final submission of documents for review we must update the old drawings. We have begun this process and expect to finish on 3/25/2018.

Pending Issues

We will be completing our internal review by 3/25/2018. We will also finish the Breaker Failure (1806-022) document.

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Andrew Brown	Revised CB4 relay diagram and communication relay diagrams.	12	131
Gavin Christenson	Completed the SEL 2411 TLS Controller diagram.	10	132
Eric Fritz	I recorded the details of the meeting with Black and Veatch and reported them in the prescribed bulleted format.	8	165
Brent Hines	Completed the Primary Relay document, reviewed finalized drawings for submittal to Black and Veatch.	11	180
Weng Hoong Loo (Terry)	Cleaned up completed drawings to match the design documents, correctness, uniformity across all drawings. Worked on completing the Bank Aux and Bank Ann.	20	136

Plans for Coming Weeks

After the completion of our internal review we will combine the documents, and various calculations that we completed, into one file and submit for the final review process. Errors will be found which we will then fix and resubmit. This process should be completed in the next couple of weeks.