

Project Status Report: CEEEn-2016CPST-005: Power Transmission Foundation Design

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1) Summary of technical/non-technical challenges encountered

- No one in our group has any experience with reinforced concrete design and so our biggest issue this month has been designing pile caps for our project. This has led to a lot of research and time lost to that.
- John Jensen is a new add and he has been to one meeting. He has been sick and so we have given him things to do from home. It is going to become an issue if he doesn't show up to more meetings.

2) Team approaches/resolutions to overcome challenges

- We have done a lot of research in the area of reinforced concrete design both online and by getting books from the library.
- We have maintained contact with John in order to give him things to do at home while he is sick. We are talking to him about showing up to the meetings we have.
- We have had a conference call with our sponsor again this month in order to get more help on the design. They led us in the direction of certain books to use for concrete design.

3) Status of challenge resolutions & potential project impacts

- We are still pretty behind on our pile cap calculations which is setting us back a decent amount. This may impact whether or not we can finish both sites, which has been discussed with our sponsor.
- Our pile design is almost done for the wetlands and should be done soon.
- We are currently looking at codes in order to ensure our design is up to current code.

4) Project Status & Summary

- The biggest delay we are seeing right now is the pile cap design. We have found some great resources that has summarized the process to design these and we are currently working on this issue.
- We are in contact with our sponsor about the progress of our project. They want us to get something out of this process and so they are willing to work with us in order to make that happen.
- The 50% report is being worked on and is almost complete. This has taken a lot of time and has also been a setback to our progress.