

Project Status Report: CEEEn-2019CPST-0 04

Report Date: 2.10.2020

Team Members: Jacquelyn Winfield, Andee Guy, Tanner Roberts

Project Title: Kiewit Power Plant Bulkhead Evaluation

1) Summary of technical/non-technical challenges encountered

- The “c” values that we used for our analysis didn’t provide a factor of safety and implied that the bulkhead was unstable as is.
- When we started solving the problem with an induced load, we were unsure which method we should be using.

2) Team approaches & resolutions to overcome challenges

- We met with Dr. Rollins and decided to calculate and graph separate “c” values in order to decide which value to use for design.
- Dr. Rolins gave us information on different ways to calculate the induced stresses and which method would be the best for our given scenario.

3) Status of challenge resolutions & potential project impact

- The values have not yet been graphed, but we have the information that we need to do so.
- We are currently analyzing the induced stresses by the heavy equipment load.

4) Project status & summary

- Now that we have answers to the questions we were unsure about, we will continue the analysis as a team and will have determined the modes of failure by next week.

Please enter # of hours spent on project this last week for each team member in the order listed above

Member #1: 4

Member #2: 5

Member #3: 6

Member #4: