

EE/CprE/SE 492 Bi-WEEKLY REPORT 6

August 2019 – May 2020

Group number: 28

Project title: New Design Concept for Residential Electric Meter Adapter

Client &/Advisor: Alliant energy/Zhaoyu Wang

Team Members/Role: Zane Heifner – Communication

Brenden Koenighain- Design/Documentation

Derek Drees- Research

Austin Meyer-Testing

o Bi-Weekly Summary: Over the period of time since the last update covid-19 was officially declared a pandemic. We then waited for our client to become available and had an emergency meeting to figure out next steps. Due to difficulties with the manufacturer and the inability to actually test the final product in the group we, along with our clients, agreed on a 3D model to be the final deliverable for this project. Since then we have worked to perfect that model and begin prepping documentation for the end of the year.

o Past 2 weeks' accomplishments/individual accomplishments:

Major group accomplishment: Most of our plans can no longer happen due to the inability to meet in person with our client and one of their installation techs so we have had to greatly revise what criteria we ourselves are able to measure for this project. It is now difficult to do a final cost analysis of the design as we will not be able to test installation times to figure out labor costs which is a huge part of the project.

- Zane Heifner: Zane met with the group to figure out next steps and has begun to finalize the 3D model to the specifications of Alliant Energy.
- Derek Drees: Derek met with the group to figure out next steps and has begun to analyze the difference in costs for a design of slightly different dimensions to figure out if we should have 1 universal solution or if 2 would work.
- Brenden Koenighain: Brenden met with the group to figure out next steps and has begun to update documentation to reflect the 3D model as the final deliverable rather than a fully manufactured adapter.
- Austin Meyer: Austin has produced the bi-weekly report document as well as met with the group to figure out next steps. Once we decided on a solution, he moved to alter the criteria for a success in this project such as success in the 3D model delivery.

Team Member	Contribution	Weekly Hours Week1/week2	Total Hours
Zane Heifner	Updated 3D model, met with group	6/9	168
Derek Drees	Met with group, analyzing alternate dimensions	6/7	164

Brenden Koenighain	Met with group, altering documentation for new deliverable	6/10	163
Austin Meyer	Began altering test plan since we can no longer test labor.	6/8	162

o Pending issues

- There are no issues this week that are keeping us from moving forward. We have to make adjustments like everyone else and still try to provide a quality final product.

o Plans for the upcoming week: Finish up the 3D model and begin poster design and final documentation of the design to submit for the final presentation on the 28th.