

Team: P19433

Engineer: Shannon Lamasko

Department: Mechanical Engineering

What were the outcomes of the Phase 1?

1. What did I plan to do?

Since it was the beginning of the project, there were no pre-set goals or plans to accomplish except to understand the key deliverables and the customer's needs.

2. What did I actually do?

Outside of the required work and assignments, I mainly researched injection molding and compression molding to familiarize myself of the two methods. My main goal was to evaluate the pro's and con's of each method and decide which was the most relevant to our project. I was also responsible for the CR's and Risk Management analysis and made sure they were uploaded to EDGE before our review.

3. What did I learn? How were plan and reality different?

I learned the basics of the project during this phase and more about one of the customers, 4 Walls, and their vision for the project. My research concerning different types of molding was successful but would like to continue researching and gain input from our guide and discuss the options with my team.

Team level goal for Phase 2:

Our team's goal for the second phase is to break down the design of the melter into subsystems so that we can better understand how we can provide the necessary functionality for the melter. This will also help us determine more specifically where we are picking up in the design from P18433.

What do I plan on doing to ensure that my team has a successful review at the end of Phase 2?

1. Continue researching injection and compression molding and evaluate which method is best for this application and discuss findings with team. (10 hours, 9/25)
2. Continue to reach out to Kellan Morgan, Enlace Project, to hopefully schedule a meeting with him to update him on the status of the project. (4 hours, 9/26)
3. Evaluate the current melter and determine if components can be transferred over to the new melter. (15 hours, 9/27, with MSD Team)
4. Review notes from strengths of materials, heat transfer, and materials science. (15 hours, 9/28, with Josie and John)
5. Contact Harbec to learn more about molding and possibly set up a visit to their plant to broaden our understanding of molding techniques. (10 hours, 10/11)
6. Brainstorm new design ideas and develop a concept to begin prototyping on Solidworks and perform cost analysis on materials. (20 hours, 10/19, with MSD Team)