Week 1: Saturday, January 20, 2018

MEETING MINUTES

Announcements:

- Contract has NOT yet been signed
- The Sponsor Mentor, Sean Simpson, will be visiting the capstone team once the contract is signed
- Hopefully the contract will be signed in a week
- Sandia has looked at the design submitted but has not responded
- Sandia internships are available for application

Individual Report

- N/A

Team discussion

- Is there room for expansion of the sample in the current design?
  - Dalton announces that yes there is room for expansion
- Continue to look into zero length adaptor feed-throughs
- How will the alumina be fabricated?
  - Research more fabrication costs for the Alumina base
- Look into Barrel Connectors
  - Colin announces that the barrel connectors are about $135 from Kurt J. Lesker
- Dr. Lee asks if the new oval shaped base design will have a appropriate center of mass
  - Dalton announces that the center will be the center of mass
- Look into finding appropriate power supplies
  - What is the wattage and voltage needed?
  - Will we buy two power supplies in order to find the zero potential? More research is necessary
  - What will the electrical losses be?
  - We think about 2000 W will be necessary for the power supply
- Reschedule Team meetings with Dr. Lee
  - New meetings will be on Fridays from 3-5pm in the Chem building
- Hope to use Dr. Lee's 3D printer to reprint new design

- will have to look into Prusa Slic3r in order to change file type
- Dr. Lee will have to buy more material for printing

Action Items

Dalton:

- Research more zero length adaptors

Nikki:

- Research possible alumina fabrication costs

Colin:

- Research more barrel connectors

Kirsten:

- Look into Prusa Slic3r for 3D printing