

**Team: P17310**

**Engineer: Sarah Williams, Mechanical Engineer**

**Entering Phase: MSD II Phase 2**

**What do I plan on doing to ensure that Team P17310 has a successful MSD II Phase 2 review?**

1. Begin ordering parts/materials (1 day)
2. Continue hinge environmental exposure test (1 week or longer)
3. Finalize power system with the team (1 week or less)
4. Perform component testing as necessary (1 week or longer)
5. Finalize drawings for machine shop personnel to begin prototype (1 week or longer)
6. Support cable management efforts as necessary (Continuous)

**You will answer these three questions when you submit at the end of the MSD II Phase 2 Review.**

1. What did I actually do?
  - Completed component and material sourcing for latch mechanism.
  - Ordering of components is in process.
  - Created initial revisions of component and assembly engineering drawings to be used for manufacturing once building materials arrive.
  - Continued environmental hinge testing and obtained initial results – test is still ongoing (weather permitting).
2. What did I learn?
  - Sourced components must take manufacturing methods into account.
  - All metal types freeze tested had about the same results after exposure, and so all of them could be suitable for the latch hook hinge.
3. What do I plan on doing to ensure that Team P17310 has a successful Phase 3 review?
  - See Phase 3 Three-Week Plan