

## Minutes – Friday, February 03, 2012

- I. Presentations from:
  - Mark Smith for DDR and Purchasing
  - John Bonzon for Brinkman Lab
  - Bob Moore for Misumi USA
- II. John – Contact Mahany (Mike Krupnicki) about welding coolant system piping potentially
- III. Possibly machine shop for base plates for floor?
  - Approx. 15" x 15" x 1 <sup>1</sup>/<sub>8</sub> (or 1 <sup>1</sup>/<sub>4</sub>)
  - Roughly 65 lbs per plate (steel)
- IV. Checked over Ryan's calculations for concrete anchors
  - FOS 19.3 for bolt shear
  - FOS 14.4 for concrete tension
- V. Ryan – Contact Hilti to double check concrete application
  - Hilti's website has calculation tool
    - Verified all calculations with tool
    - Saved results for comparison
- VI. LORD MR Shocks are cleared to be donated; they're currently being shipped to us
- VII. Misumi potentially for pipes for coolant system – can do custom lengths for pretty competitive price
- VIII. Hilti for concrete anchors
  - Anchors fairly inexpensive
  - Adhesive and application system more expensive
- IX. Need to figure out valves for coolant system
- X. Discussed coolant system build
  - Weld v. threaded pipe
    - Weld would be easier for ordering, sizing etc.
    - Harder to weld stainless pipe
    - Threaded is easier to put together but harder to size appropriately
- XI. **Detailed Design review for Week 9 – Friday potentially**

**XII. Deliverables for next week:**

- **Matt** – Try to finish model for vibrations; meet with Dr. Lam Monday
- **Chris** - Try to finish model for coolant system; meet with Dr. Ghosh soon!
- **John** – Basic DDR outline started; Mahany about welding coolant pipe; Shock/strut characteristics to match compressor to vehicle GVW (~7300 lbs [found on analysis group page on EDGE]); Mounting tank attachment bracket
- **Ryan** – Mounting and interface hardware analysis