

## Meeting – Friday, February 10, 2012

- I. Deliverables from Previous Meeting:
  - Matt – Model is finished; numbers make sense and match pretty well to the amount of deflection we are actually seeing
  - John – Bracket design concepts (U-bolt, collar)
  - Chris – Model complete; inquiring today for piping from Commercial Pipe and Supply Corp.
  - Ryan – Models and prints complete;
- II. Bracket design chosen – U-bolts mounted to tank and bracket to be designed to attach to pump. 1/8”-1/4” sheet metal for main construction. Easy construction and implementation.
- III. Vibration model completed and run using various scenarios. Matt is going to run it and produce plots for maximum damping, as well as the amount of damping necessary to reach 50%. Deflection of .52 cm at full damping, down from 1.44 cm undamped
- IV. Thermosyphoning model complete. Chris is working on CAD layout of model, as well as getting price quotes from local Rochester company for plumbing (pipes, elbows, valves, etc.)
  - a. Also need to find quotes on finned tubing
- V. Interface hardware for shock system complete. ANSYS to follow as soon as possible.
- VI. Agenda created for DDR – email to attendees (NEED ROOM AND TIME)
- VII. **Deliverables for Wednesday:**
  - **Matt –Talk to Lynn →Wonderbox v. DC Power supply. Plots and data from simulation.**
  - **Chris – Quote on Plumbing from Commercial Pipe and Supply and quote for finned tubing**
  - **Ryan – ANSYS on mounting hardware**
  - **John – CAD model for expansion tank bracket (tentative design – to be completed when tank is received). Email/invite attendees and include agenda**