

MSD Team P17453

Weekly Update

Week 14

4/27/17 - 5/4/17

Weekly Accomplishments:

- Uploaded valve manifold Assembly/disassembly video guide to the YouTube channel
- Updated some edge pages
- Fit the plexiglass sheet in the bottom of the 8020 frame
- Showed project off at Imagine RIT in the compressor room
- Prepared for Lighting Talk for the following Thursday

To do by next week:

- Finish updating last customer review edge page
- Finalize other edge pages
- Schedule Gate Review
- Finalize and submit technical paper
- Make sure everything is cleaned up in the lab
- Perform lighting talk on Thursday

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Meeting Notes

5/2/17

Meeting Accomplishments:

- Uploaded valve manifold Assembly/disassembly video guide to the YouTube channel
- Updated more edge pages
  - Testing procedures
  - Video Links
  - Descriptions of process
  - Updated BOMs, Problem Tracking, etc.
- Fit the plexiglass sheet in the bottom of the 8020 frame
- Cleared off cart in the lab to bring system to the machine shop by the compressor for Imagine
- Set up SignalExpress in the machine shop compressor room
  - Had to change previous dev1 to dev8 to allow our DAQ to be dev1 as in our program
  - Will change back after Imagine

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Meeting Notes

5/4/17

Meeting Accomplishments:

- Updated more edge pages
  - Testing procedures
  - Video Links
  - Descriptions of process
  - Updated BOMs, Problem Tracking, etc.
- Discussed about asking to have the Gate Review during last week of classes instead of during finals week
- Discussed key points to talk about during Imagine RIT
- Received extra hose length and brought to compressor room
  - Tested and got everything working
  - Decided to change test to run for only 3 iterations(6 total) to save time for presenting
- Prepared for Lighting Talk for the following Thursday

# P17453: Dresser-Rand Poppet Valve Test Bench

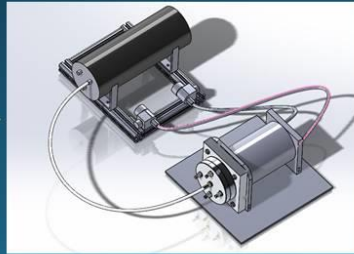
Brandon Chrysler, Alex Grassl, Ryan Muchard, Carvey Yung

## Goals

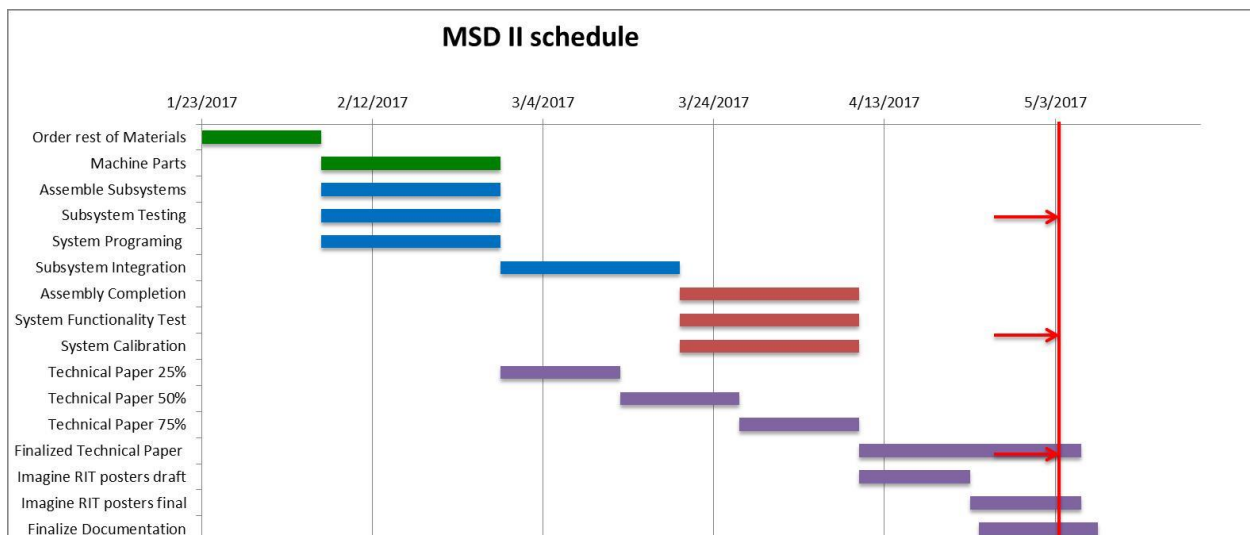
- Simulate pressure curves of the Dresser-Rand ESH-1 Compressor
- Reduce disassembly and reassembly time
- Gather Vibration Data

## Achievements

- Cycles at 1 Hz
- Can be disassembled and reassembled in 10 minutes
- Measures vibration of the poppet Valves during each cycle



Lightning Slide Presentation



Gantt Chart: Team progress through week 14.