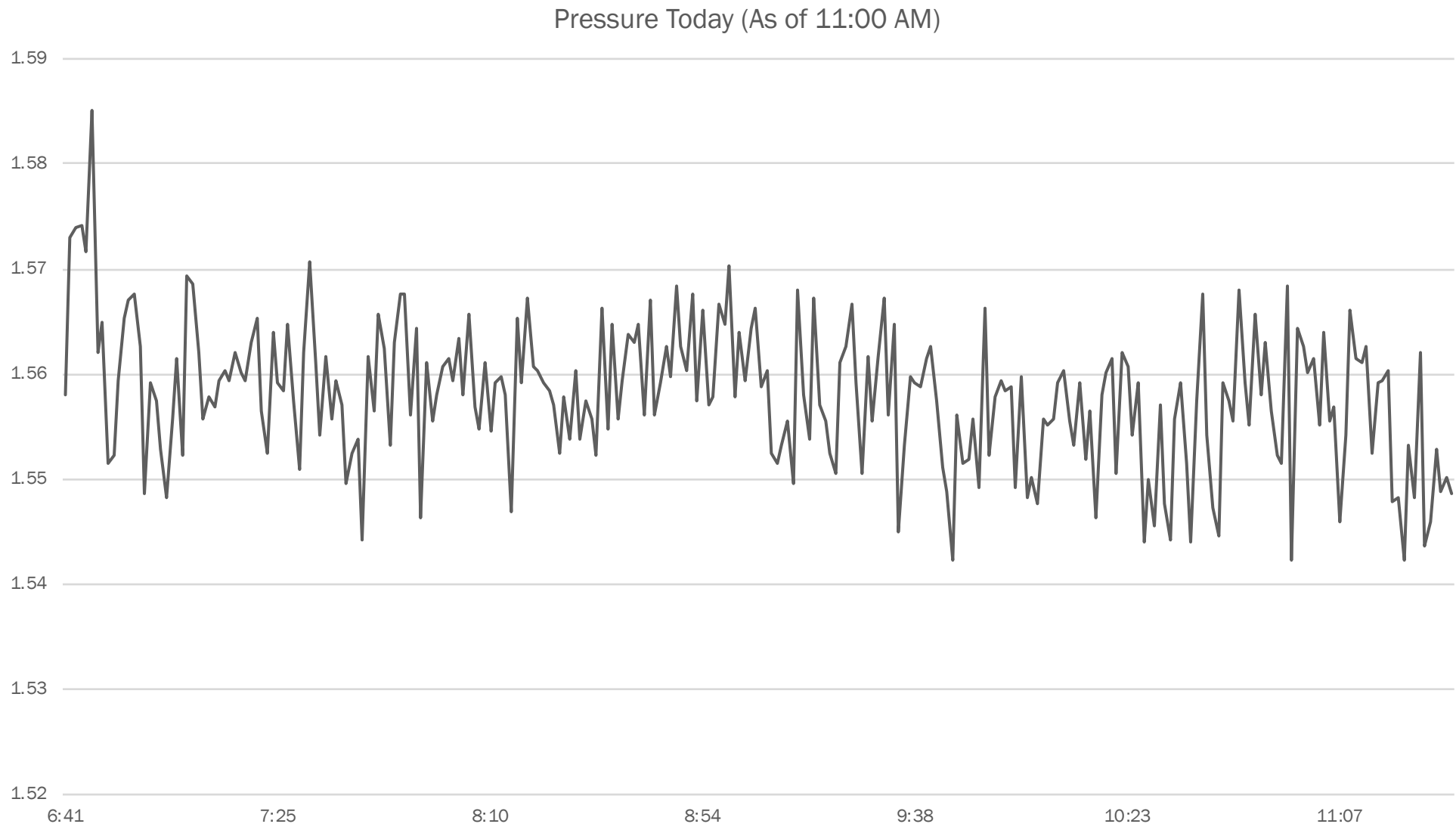




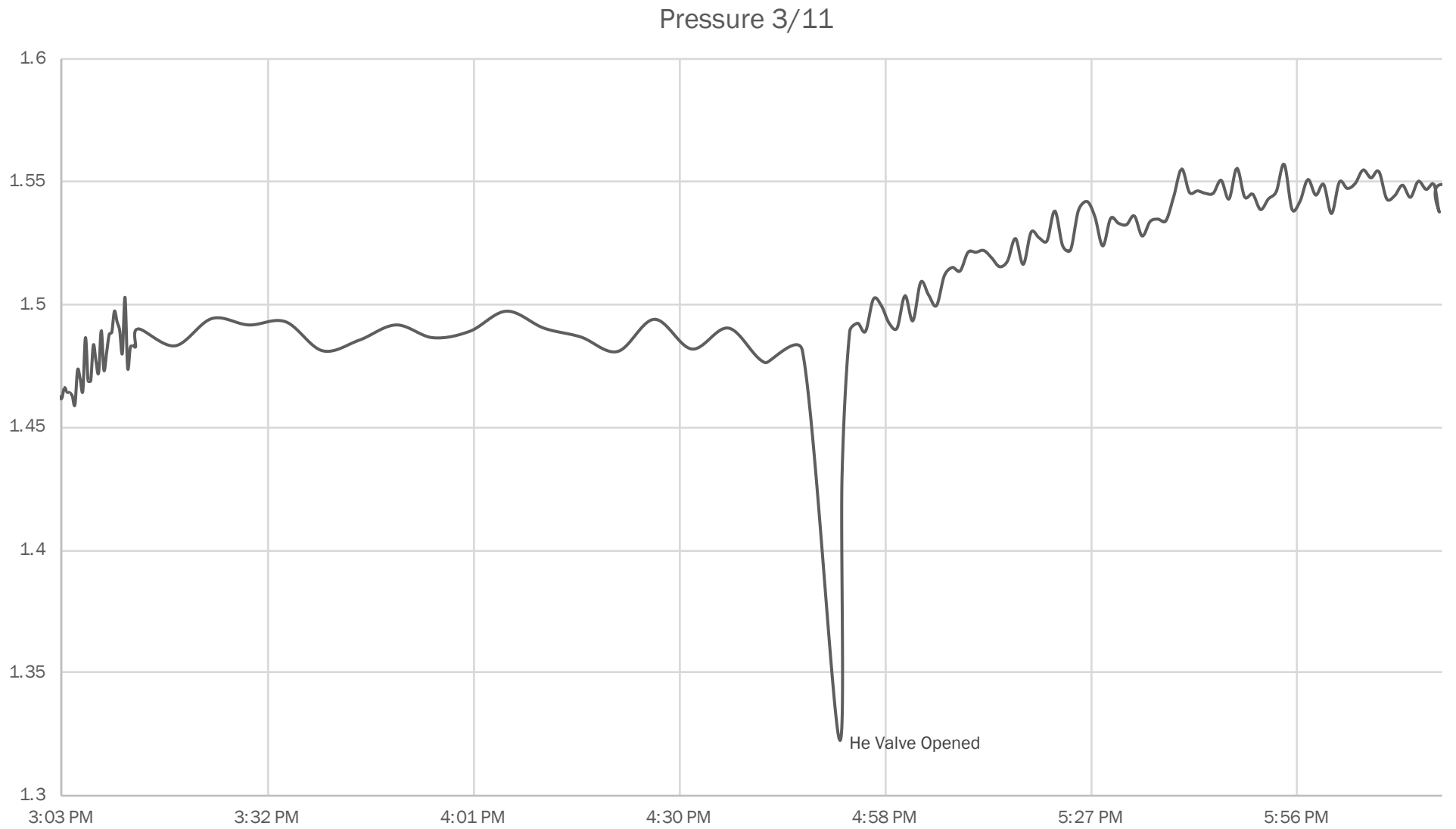
PRESSURE CONTROL RESULTS

Maya Dunn – 3/12





Consistent Pressure over ~4 Hours. Note steady state error

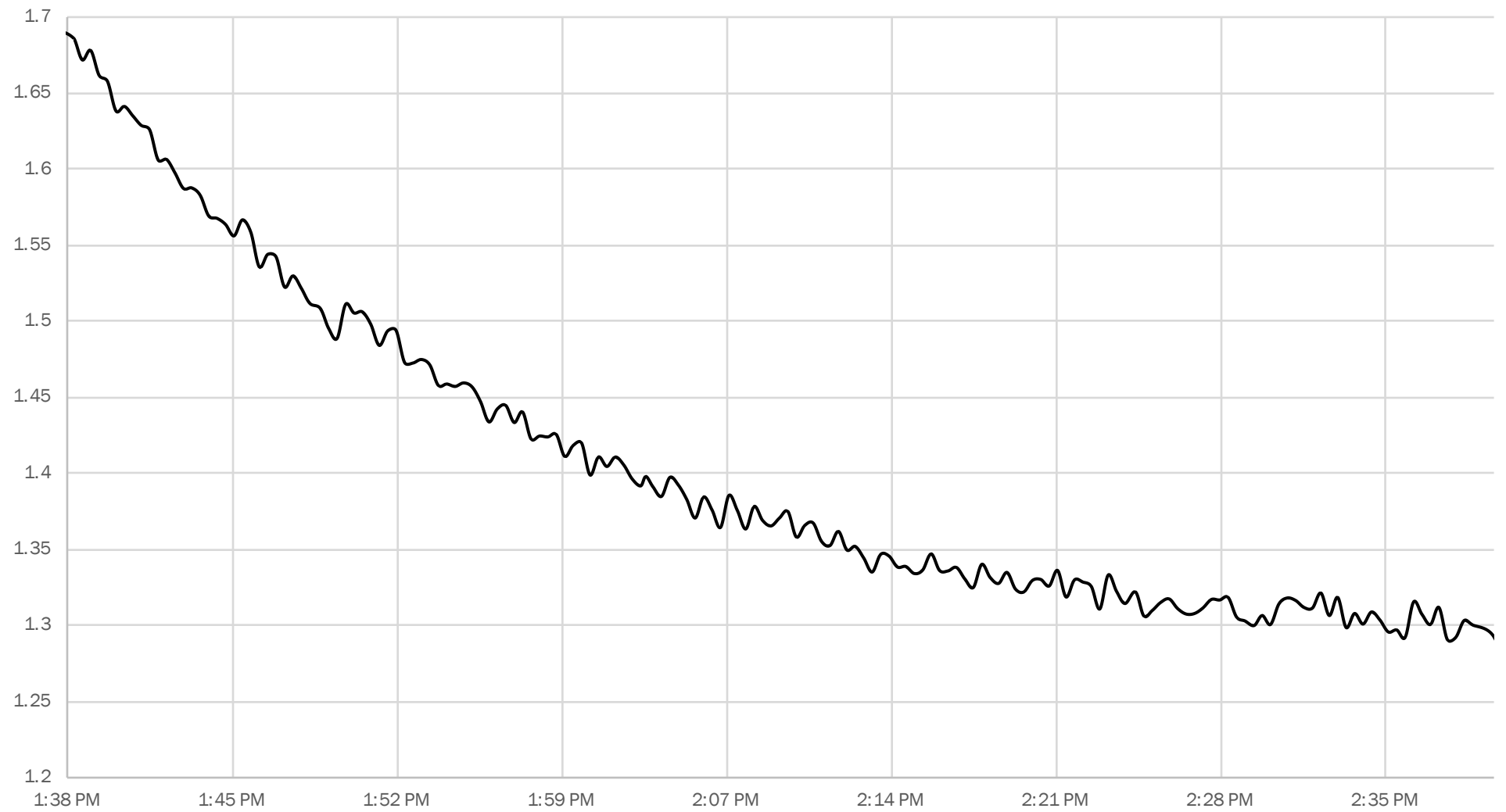


Event Response over 4 hours

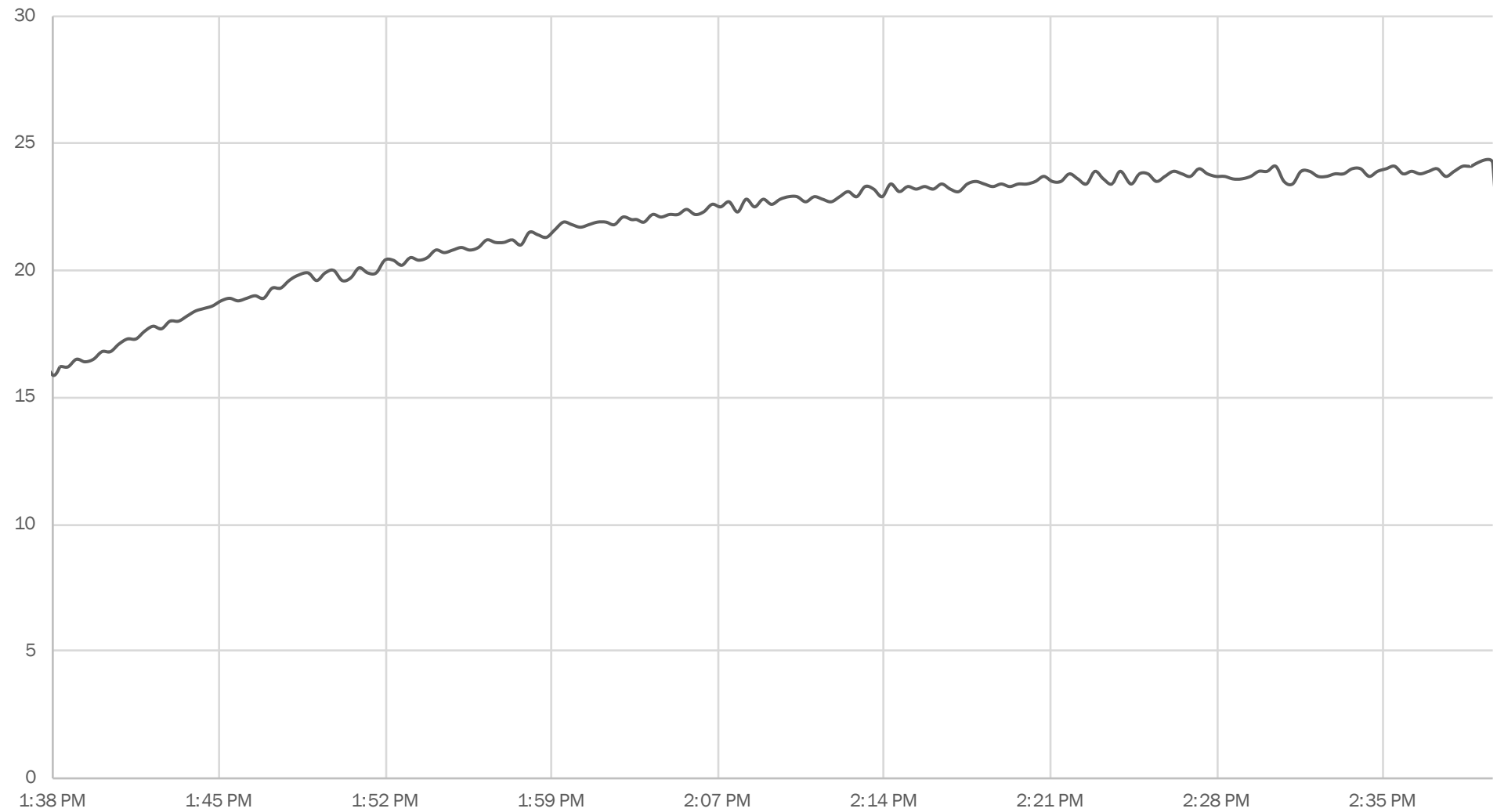


Integrated Error constant is still underpowered

First Run - KI too low



First Run - KI too low -- Heater Response



Heater can't increase response enough to offset cooling

Comments

- Ki needs longer memory (currently unable to correct for steady state error)
 - *Will increase from 5 minutes to ~10 and see how it performs*
- Needs faster switch between internal and external controls
 - *Currently results in a .3-.5 drop in pressure.*
 - *Can fix programmatically, but may slow computer. I might wait until new one is installed.*
 - *Alternately, the heater could be tuned so that it picks back up faster.*
- Checked just now, and pressure is hovering around 1.52