Solenoid I&C Meeting

Date: November 22, 2016
Time: 10:30AM – 11:00AM

Attendees: Nick, Probir, Renuka, Tyler

1. Discussed error with Cernox sensor readings in Cryocon unit
    1.1. Cryocon displays "clip" for Cernox instead of temperature for temperatures under ~40K.
    1.2. Cause of error is an over-voltage condition on the Cryocon input.
    1.3. Solutions include debugging Cryocon or fabricating additional LV excitation chassis to allow for the Cernoxes to be used.

2. Discussed my task and task timeline.
    2.1. I will work with Christiana to debug Cryocon.
    2.2. I have been given this task because of Cerenox use in the LV excitation chassis and LabVIEW code.
    2.3. Goal is to have error resolved in two weeks (week of December 9, 2016).
    2.4. There will be another meeting next week to discuss progress and determine if the Cryocon issue can be resolved or an additional LV excitation chassis should be made.

3. Strategy for Cryocon debugging:
    3.1. I will get the spare Cryocon from Probir this afternoon.
    3.2. Replicate "clip" error using resistors to simulate 4K temperatures.
    3.3. If error occurs, check resistance read by Cryocon and reinstall calibration curve if needed.
    3.4. Cryocon firmware should checked and updated.
    3.5. There may be a grounding issue if "clip" error remains.