Solenoid I&C Meeting

Date: December 2, 2016
Time: 8:30AM – 9:00AM

Attendees: Mark Lester, Nick Sandoval, Ruben Fair, Scot Spiegel, Tyler Lemon

I. Discussed Cryo-con unit grounding issue and three solutions.
   1. Cryo-con units and cable shields were not grounded.
   2. Cryo-con support contact recommends grounding all sensor cable shielding.
   3. Solution 1: Ground cables that are in place in Hall B by connecting drain wire of each individual cable at terminal block ground and isolating Cryo-con unit in rack.
   4. Solution 2: Replace cables in Hall B with cables that were bought with Cryo-con unit that have metals connectors that will connect to terminal block ground.
   5. Solution 3: Attach ground wire from rack rail to back of Cryo-con unit, grounding the unit and connectors attached. Cables in place in Hall B have connectors that are tied to its shielding.

II. Determined Solution 3 (from above) will be the course of action.
   1. Mark Lester will install ground wires to all eight Cryo-con units used for Hall B Magnets.
   2. We will monitor signals before and after ground wire installation to ensure there are no negative effects on signals monitored in Cryo-con.
   3. If this does not solve issues, Solution 2 (from above) will be used.

III. Discussed Cryo-con clip error
   1. I was not able to replicate clip error with Cryo-con unit.
   2. Clip error could be caused by lack of ground reference (issue resolved) or by loose connections at terminal block.
   3. I am stopping my investigation of error and will monitor Cryo-con signals.
   4. If clip error remains after grounding, I will restart debugging error.