HALL C PLC TASKS REPORT (07/26/2018 – 08/01/2018)

- PLC program for dipole field regulation in progress
  - Implemented formula based on the sample data from the HMS curve I(B).
  - Developed a HMI screen to simulate input values for magnetic field, magnetic field limits and alarm levels.
- Upgrading HMS PLC from version 16 to version 20.
  - Requested quotation for communication and redundancy modules needed for upgrades in the HMS primary and secondary PLC chassis.
    - Two EN2T modules, two CN2 modules, and two RM2 modules
    - Estimated price for above modules ~ $20,100
- With regards to Windows 7 upgrades to Windows 10.
  - DSG-HallC-6 computer has been rebuilt to Windows 10.
    - Computer is on the Hall C sub-net and is being configured as a PLC test station.
    - Computer will be used to test the PLC software upgrade to V20.58 running on Windows 10 for HMS and SHMS.
    - Computer was returned because of failures in the operating system
    - Computer is being debugged by computer center.
- Found that the PTP time for the Hall C subnets are way off (says it's year 1970)
  - Hall B & D subnets appear to be 33 seconds faster compared to the Hall C subnet.
  - Filed a ticket with Rockwell (4007139001) to enquire about this.
- DSG is still waiting on information and/or cabling work from Hall C on:
  - HMS & SHMS shutter controls
  - Spectrometer break controls
  - Valve tune responses
  - SHMS LVDT I/O module work.