

## **HALL C PLC TASKS REPORT (09/27/2018 – 10/03/2018)**

- For test of end-of-life upgrade from Windows 7 to Windows 10:
  - \* RS-LOGIX 5000 v16.04 installed on dsg-hallc-6 Windows 10 PC.
  - \* With Windows 10 PC, able to connect to HMS PLC running RS-LOGIX 5000 v16 without any problems.
  - \* With Windows 10 PC, able to connect to SHMS PLC running RS-LOGIX 5000 v20 without any problems.
- Modifications made to Quadrupole current regulation PLC program based on new comments and requirements received from Hall C.
- Development continued to implement PT2026 NMR unit in Hall C PLC system.
  - \* Found that depending on magnitude of field, PT2026 needs different RF Pulse settings.
  - \* Unit loses field lock easily when the dipole's current is changed.
  - \* PT2026 field measurement is unstable.
    - PT2026 loses lock on field soon after dipole current is changed while PT2025 does not.