HALL C PLC TASKS REPORT (11/08/2018 - 11/14/2018)

- Upgrading of 1756-IF4FXOF2F/A high speed module firmware from 1.4 to 3.5 in progress.
 - Firmware 1.4 allows a RTS of 400 μs compared with firmware 3.5 that allows a RTS of 300 μs.
 - * Found issues during the upgrade; communication error status displayed.
 - * Contacted Rockwell support, debugging in progress.
- Writing Python code on SBC card to keep checking for lock if the NMR PT2026 unit loses its present lock.
 - ★ With code implemented noticed that lock maintained fine at ~1.65 T, but couldn't get an automatic lock at ~1.8 T (not sure of exact number) despite scanning up/down pulse width & amplitude.
 - So far only been able to get a lock manually at the higher fields.
 - ★ Code didn't handle not having PLC tags present (when trying to debug "fast" ADC module the controller was reset) very gracefully, i.e. threw an exception.