Torus Tasks for KPP Power-up

Date: January 13, 2017
Time: 9:00 – 10:00

Attendees: George Biallas, Pablo Campero, Ruben Fair, Probir Ghoshal, Dave Kashy, Tyler Lemon, Wesley Moore, Sarin Philip, Nick Sandoval, Scot Spiegel

1. Timeline for KPP preparations
    - 1.1. Torus is priority for KPP.
    - 1.2. Start checklists 2017-01-13.
    - 1.3. Low current tests scheduled for week of 2017-01-23.
    - 1.4. Power up Torus week of 2017-01-30.
        - 1.4.1. Only going to half field (~1500 [A]) for KPP.
    - 1.5. KPP beam run starts 2017-02-03.

2. Timeline for Solenoid arrival.
    - 2.1. After KPP (week of 2017-02-06), continue work on Solenoid Service Tower (SST).
    - 2.2. Dave Kashy will be designing platforms that will allow work on SST while CTOF is disassembled below at the same time.
    - 2.3. Solenoid arrives at JLab 2017-03-21.
    - 2.4. Power up Solenoid in August 2017.

3. Adding digital filters to Fast-Daq
    - 3.1. Main goal is to filter is 60 [Hz] noise.
    - 3.2. Filter should be implemented for all channels.
    - 3.3. Tyler Lemon has investigated ways to add filter to LabVIEW code.
    - 3.4. Preliminary version of LabVIEW using digital filter is ready for testing.
        - 3.4.1. Implements a notch filter tuned to 60 [Hz] that should filter 60 [Hz] noise.
        - 3.4.2. Tyler Lemon will test preliminary version afternoon of 2017-01-13.
    - 3.5. Nick Sandoval will distribute oscilloscope screen shots of noise via email.
    - 3.6. After successful implementation of filters, disabled software comparators (Comparator 4 and Comparator 5) will be re-enabled.
    - 3.7. Deadline for adding filter week of 2017-01-23.

4. Reviewed punch list items.
    - 4.1. Scot Spiegel will update five drawings.
        - 4.1.1. All revised drawings will be submitted to document control.
        - 4.1.2. Deadline for task 2017-01-27.
    - 4.2. Added additional pressure transducer.
        - 4.2.1. Dave Kashy will assign official PV name for transducer.
        - 4.2.2. Nick Sandoval and Wesley Moore will add transducer to PLC and EPICS.
        - 4.2.3. Task will be complete 2017-01-13.
    - 4.3. Label for cabling needs to be swapped for lead flow temperature sensors.
        - 4.3.1. Nick Sandoval will correct PLC code so correct parameters are read after swapping labels.
        - 4.3.2. Task will be complete 2017-01-13.
    - 4.4. Wesley Moore will change alarm handler to send SMS messages.
        - 4.4.1. Dave Kashy and Doug Tilles will be notified via SMS.
        - 4.4.2. Determined that Turbo Pump speed alarms should be sent out via SMS.

5. Cool down checklists

5.1. Dave Kashy assigned lead.
5.2. Will contact others for tasks as needed.
5.3. Start cool down on 2017-01-18.
5.4. Hall B Procedure No. B000000901-P006 details all checklists required for cool down.
5.5. Estimated cooling from 80 [K] to 4 [K] will take 48 [hours].

6. Pre-Power-up checklists

6.1. Probir Ghoshal assigned lead.
    6.1.1. Pablo Campero and Tyler Lemon will assist with Interlock Checkout tasks
6.2. Will contact others for tasks as needed.
6.3. Begin low current (< 500 [A]) operation week of 2017-01-23.
6.4. Hall B Procedure No. B000000901-P021 details all checklists required for power-up.
6.5. Power up to half field (~1500 [A]) for KPP on 2017-01-30.

7. Future checklist discussions

7.1. Checklists will be annotated with details and comments from previous checks.
7.2. Those present at meeting will perform checklists for KPP operation.
7.3. In future, Hall B Engineering will perform all checks and fill out checklists.
    7.3.1. Checkers will need to be trained and guided for first checks.