

## 2017-01-06-Tasks for Winter Shutdown 16th Dec 2016 to 14th Feb 2017

### Hall

- Change over water solenoids for the SS diode absorber trays to be installed.
- PT100's on FC in R9 requires holes to be drilled.
- Oxygen depletion sensor service – 30<sup>th</sup> Jan
- Polarity sensor (POMPOMs) radiation damage test (sometime in 23rd-27th Jan; needs PPS permit)
- Neutron Monitor.
- Proton Absorber 29mm slab upper limit (DSA)
- Water circuit from South west corner to trench - T into trench heat exchanger primary circuit
- Trench water system #1878 :
  - reverse trench heat exchanger primary flow.
- Diffuser iris 4 – possibly an air pressure issue.
  - Works well now – test and re-test and re-test with field on.

### Code Updates C&M

- Micenet lockout #1399 by end Jan.
- Compressed air at Diffuser not reported in EPICS, #1888
- Air flow meter modifications replicate SSD solution for SSU.
- SS magnet operational tutorials - practical
  - Ramp commands to SSU M coils
  - GUI updates - 'information only GUI for SS magnets for shifters'
  - State Machines for Alarms and Archiving, for
    - Target, #1896
    - Beamline, #1880
    - Services and Environment, #1881
    - Computing: UPSs #1213 ; File Compactor, #1895
  - Macro 'code topology' documentation
  - Magnet monitoring GUIs should be made shift friendly (no access to compressors etc..)
  - Water pump GUI password protected, #1891

### Electrical

#### Spectrometer solenoids

- Commissioning of Change over water solenoids for the SS diode absorber trays- **T. Hartnett**
- 208v supply for SSD/SSU contactors requires the rack mounted fuse terminals and the blue coloured terminals to be replaced with standard coloured terminals – **T. Hartnett**
- PSS Relay Bases to be replaced. Key switch to be installed on PS Box – **T. Hartnett**
- Review SS Trace Heaters for reliable operation - **A. Gallagher**
- SS Boil off Heater Interlocks to be checked – **I. Mullacrane**
- Fit cable numbers to SS Dump resistor cables - **A. Gallagher**

#### Focus Coil

- FC Data logger GUI to be tested and verified – **P. Hanlet to advise**

- PT100's on FC in R9 to be fitted - **A. Gallagher**

#### Hydrogen System

- Cryo-cooler for LH2 system moved from Vacuum control station 9 rack to H2 control room information to the control system is not available in new location, request to resolve. **P. Hanlet to prove.**
- Hydrogen level sensing commissioning – **P. Warburton to advise**

#### Drawings and records

- Check off power distribution records – **J. Webb, A. Gallagher**
- Records of testing to be made available - **A. Gallagher**
- Update all Mice drawings and issue to Mice Wiki page in PDF format – **J. Webb, I. Mullacrane to advise**

#### MICE Hall

- Cat5e cable to SW corner of Hall for environmental control. **P. Hanlet to advise on status**
- Oxygen monitors in tracker nitrogen purge line, need serial cable to RR1 **P. Hanlet to advise on status**
- 24V supply for draw wire strain gauge required. **Installation complete, commissioning and testing to be completed in hall.** – **A. Gallagher, J. Webb**
- Earth Leakage tests on Q7-9 at magnet – **R. Hale**
- Magnet Interlock alarm is inoperative investigation required – **DL engineer**

#### Preventative maintenance

- Fan checks on racks and other electrical equipment – **DL engineer**
- Organise UPS service in RR2 – **I. Mullacrane**
- Critical Interlock checks, SS and FC systems have been recently checked but all other systems should be reviewed – **DL engineer**
- Key functional tests for superconducting magnets should be reviewed – **Magnet experts**
- Tracker PSU off interlock tests – **I. Mullacrane**
- PPS functional test – 25<sup>th</sup> Jan
- Conventional magnets
  - Q2 power supply
  - ~~Review Cooling channel connection drawings with magnet experts at RAL (if required)~~ – **Handed over drawings but no review meeting.**
  - Fit cable numbers to SS dump circuit cables (John to provide labels / numbers) – **Not done waiting for cable numbers and labels.**

#### Detectors

- \* Firmware for EMR spare
- \* New Target control PC (RR1) - today
- \* [Restart R78 target test facility and test T2; rebuild S3?] next week