



EB July 15th 2016

MICE Project Manager's Report

Step IV



SS QP/QD.

- Modification to fast ramp down circuit implemented.
- Installation completed and signed off.
- 'Missing' VTs found

Magnet commissioning

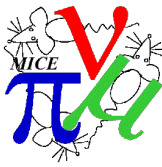
- Magnet readiness review RAL 28th June 2016
 - Recommended
 - conservative running.
 - Data-taking before running M2D coil.
- Collaboration agrees no M2D operation this ISIS cycle.
- FC trained to 90A – ready for operation.
 - Data with FC July 14th (yesterday, continues today)



Spectrometer Solenoids

- SSU and SSD ongoing issues with QD 'trip'
 - QD thresholds tightened now we have the full set of VTs
 - Tight thresholds for protection of LTS leads internal to cold mass – plan to ease to 200mV.
 - Diagnosis on-going many possibilities – we have changed:
 - Added external diodes and resistors.
 - Modified discharge diode trays.
 - QD system changed – di/dt added.
- PRY movement detectors
 - additional channels added – upper end plates and vertical movement monitors.
 - Movement detectors for SS OVCs
 - Working to design OVC – PRY brace – J Tarrant.

Water



- Chiller external plumbing completed/cleaned/test run.
- All prep work for cryo-cooler connections completed
- ‘Trench’ circuit for magnet power supplies
 - Plumbing complete up to ‘cut-in’ point.
 - New, reduced diameter ‘main line’ to aid air ‘bleeding’
 - Ion exchange cartridge in place
 - Controls installed
 - Pumps wired.
- Ready for end ISIS user cycle
- Warm magnets re-balanced for higher current operation of ‘middle’ quad in each triplet.
- Replacement power supply due to water damage caused by water leak – ISIS electrical staff called.



Step IV



Liquid H2

- Gas supply re-configuration due to chiller – done
 - New plinth in place.
 - Gas panels installed.
- Test of wiring mods in R9.
- Absorber bodies ‘agreed good to go’
- Full scaffold assembled ready for testing in R9
- End-cap delay due to OM –
 - Delivery on-schedule 21st July – next Friday.
- Now planning best time to install in MICE hall.
 - Christmas/New Year?
 - November shut down too short – 2 weeks
 - Scheduling difficult with vacation

