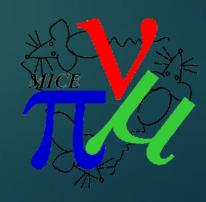


DC Report

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MICE VC 03/08/2017



Timescale

- ▶ ISIS user run starts on Tuesday 19th September (6 weeks away)
- ▶ The run ends on the 27th October
- Planning to operate the experiment 24/7
- ► Three shifts a day, 00:00-08:00, 08:00-16:00, 16:00-24:00
- ▶ Three MOMs have (been) volunteered
- Paulo 12th Sept 27th Sept
- ▶ Durga 27th Sept 12th Oct
- ► Melissa 12th Oct 27th Oct

Prerequisite Tasks

- Target
- Conventional Beamline
- Water and Hall infrastructure
- Cooling channel
- Tracker
- ► LH2 system
- Controls and Monitoring
- ▶ DAQ and Computing
- ▶ Training and People

Target

- ▶ The target currently installed has performed 5 million actuations
- Analysis shows no signs of deterioration or wear
- Estimated lifetime of a target is estimated to be between 5-10 million
- Decision made not to replace current target
- Have a fully tested hot swap spare ready for emergencies
- Outline agreement with synchrotron crew to allow rapid replacement if needed

Conventional beamline

- Issue with beam-stop droop resolved
- Beam-stop frame fixed
- ▶ DS is ok
- Magnets are ok
- Diffuser needs to be tested when SSU/SSD are ramped
- Will need to do a position survey prior to hall closure

Water and Hall Infrastructure

- We are still missing John Govans
- Have Paul Masterson from ISIS to help with water issues
- General hall issues need watching
- AC units have just been serviced and should be fine
- Hydrogen panel area fencing/mesh to be installed
- Crowcon ODH sensors tested and calibrated

Cooling Channel

- ▶ Plan to begin recommissioning SSU/SSD/FCD next week
- Alan arrives midweek and Sandor at end of week
- First step is for AB and SF to evaluate state of SSD-M2
- Then check the QPS system
- Ramp SSU and SSD independently to full current
- Then ramp SSU/SSD/FC together
- Hall will need to be in controlled access for ramp tests
- SSD Insulating Vacuum is reading a little high (6.4E-7) so watching this closely

Tracker

- All 4 tracker cryostats are currently warm
- Alan will start cooling and checking/sealing these as soon as he arrives
- When above work is complete the trackers will need recalibrating
- We no longer have Ed Overton for this work
- David Adey will arrive early September to do the above recalibration(s)

Liquid Hydrogen System

- Commissioning work with Neon going well
- Achieved stable state when "Full"
- Controls and emergency stop system tested
- Nice new epics monitoring GUI
- Some snagging work to complete in roof before final inspection in 2 weeks time
- Pipework for vent/quench line to be completed

Controls and Monitoring

- Still far to many spurious alarms in alarm handler
- ► Have a 6 page list of "ignored" alarms!
- Major effort underway to fix this ready for data taking
- Need to check and verify that all critical parameters are properly recorded in the archiver
- Otherwise everything is working well

DAQ and Computing

- Durga not back until early September
- Will need to be careful that we have enough time to fix any DAQ issues that arise
- No major problems with general computing
- Some over-temperature alarms in showing up in ALH

Training and People

- Could be our last data taking period!
- ▶ It is a longish user run 6 weeks
- Need to make sure we have enough shifters to cover
- See Steve and Henry for any training (BLOCs needed)

Conclusion

- ▶ Lots of work to do to prepare for what may be the final run of MICE
- Cannot afford any significant slippage
- ► Looking forward to routine LH2 data taking by end of September.....