



Project Manager's Report

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Major systems

- ❑ **LH2 project** – complete
- ❑ **Trackers** – as before ‘under control’
- ❑ **Beam line** – no known problems
- ❑ **Detectors** – no issues
- ❑ **Controls** – all alarms are real
 - ❑ New functionality – MoM magnet GUI

Magnets

- SSU CC5 poor performance
- Damaged/compromised disc valve in cold head?
- Reduced cooling power.
- Optimised operating pressure ~ 200psi
- Live with it – SSU tested and operational

ISIS 2017/03 Plan

- all shifts full
 - excellent response from shifters.
 - Tight timetable.
- Aim generally 1M, 1M, 2M triggers at 3,4?,6,10mm emittance
- Hard to accelerate schedule without magnet ramps in the middle of the night.
- Some risk as we had never achieved extended run of daily magnet changes.
 - MoM excellent commitment to maintain timetable

ISIS 2017/03 Progress

- Site power cut 20th November
 - ISIS down 1 day
 - MICE down +1 day - water
 - Absorber change moved post weekend.
 - Schedule 'adjusted' to retain 'wedge'
 - ISIS power issues/cooling Dec 7th
- Daily magnet setting changes.
 - MoM magnet ramp down buttons tested and in use
 - 'Trained' magnet sub-experts Durga, Victoria
- LH2 empty data complete.
- LiH empty data in progress

ISIS 2017/03 Status

SSD Quench Mon 4th December

- M2 Idot trip – new ‘noise’?
 - +3s ECE quench during fast ramp down
 - Power extracted to external circuit
 - +20s M2 lead quench
 - contactors open
 - Remaining power dumped in magnet cold mass
- Cold mass temp >20K
- Magnet stabilised, cooled to 5K overnight.
- Tues 5th refill with He, 230l
- Magnets back to field without M2 for data-taking at 21.30.
- SSD M2 full field Wed 6th

ISIS User Cycle 2017/02; detailed MICE run plan

Date	Day	Shift	Absorber	SSD(M2)	Shift blk
13-Nov-17	Monday	00:00			
14-Nov-17	Tuesday	00:00	LH2 empty	OFF	
ISIS Start 8am		08:00	LH2 empty	OFF	
		16:00	LH2 empty	OFF	
15-Nov-17	Wednesday	00:00	LH2 empty	OFF	
		08:00	LH2 empty	OFF	Ramp to 2017-02-3; 140 MeV/c data taking
		16:00	LH2 empty	OFF	Flip-mode, 2017-02-3; data taking
16-Nov-17	Thursday	00:00	LH2 empty	OFF	Flip-mode, 2017-02-3; data taking
		08:00	LH2 empty	OFF	Switch to 2017-02-4; 140 MeV/c data taking
		16:00	LH2 empty	OFF	Flip-mode, 2017-02-4; data taking
17-Nov-17	Friday	00:00	LH2 empty	OFF	Flip-mode, 2017-02-4; data taking
		08:00	LH2 empty	OFF	Switch to 2017-02-5; 140 MeV/c data taking.
		16:00	LH2 empty	ON	Soln-mode, 2017-02-5: data taking
18-Nov-17	Saturday	00:00	LH2 empty	ON	Soln-mode, 2017-02-5: data taking
		08:00	LH2 empty	OFF	Ramp magnets down
		16:00	LH2 empty	OFF	
19-Nov-17	Sunday	00:00	LH2 empty	OFF	Straight tracks
		08:00	LH2 empty	OFF	
		16:00	LH2 empty	OFF	
20-Nov-17	Monday	00:00	LH2 empty	OFF	Mains power cut + MICE water leak
		08:00	LH2 empty	OFF	
		16:00	LH2 empty	OFF	
21-Nov-17	Tuesday	00:00	LH2 empty	OFF	Straight tracks
		08:00	LH2 empty	OFF	
		16:00	LH2 empty	OFF	
22-Nov-17	Wednesday	00:00	LH2 empty	OFF	MICE water repair. Straight tracks/magnet test
		08:00	LH2 empty	OFF	
		16:00	LH2 empty	OFF	
23-Nov-17	Thursday	00:00	LH2 empty	OFF	Straight tracks/SSD M2 off.
		08:00	LH2 empty	OFF	
		16:00	LH2 empty	ON	
24-Nov-17	Friday	00:00	LH2 empty	ON	Soln-mode, 2017-02-6; data taking
		08:00	LH2 empty	OFF	Switch to 2017-02-1; 140 MeV/c data taking
		16:00	LH2 empty	???	Soln-mode, 2017-02-1; data taking
25-Nov-17	Saturday	00:00	LH2 empty	???	Soln-mode, 2017-02-1; data taking
		08:00	LH2 empty	???	Switch to 2017-02-2; 140 MeV/c data taking
		16:00	LH2 empty	???	Soln-mode, 2017-02-2; data taking
26-Nov-17	Sunday	00:00	LH2 empty	???	Soln-mode, 2017-02-2; data taking
		08:00	LH2 empty	???	Ramp magnets down

LH2 empty 2 settings

Shift blk 1

Shift blk 2

Data Plan



		LiH empty	08:00	Empty	ON	Magnet change
			16:00	Empty	ON	Soln-mode, 2017-02-6; data taking
01-Dec-17	Friday		00:00	Empty	ON	Soln-mode, 2017-02-6; data taking
			08:00	Empty	ON	Magnet change
			16:00	Empty	OFF	Soln-mode, 2016/04 1.2; data taking
02-Dec-17	Saturday		00:00	Empty	OFF	Soln-mode, 2016/04 1.2; data taking
			08:00	Empty	OFF	Magnet change
			16:00	Empty	OFF	Soln-mode, 2016/04 2.3; data taking
03-Dec-17	Sunday		00:00	Empty	OFF	Soln-mode, 2016/04 2.3; data taking
			08:00	Empty	OFF	Magnet change
			16:00	Empty	OFF	Soln-mode, 2016/04 2.4; data taking
04-Dec-17	Monday		00:00	Empty	OFF	Soln-mode, 2016/04 2.4; data taking
			08:00	Empty	OFF	
			16:00	Empty	ON	
05-Dec-17	Tuesday		00:00	Empty	ON	
			08:00	Empty	ON	
		16:00	Empty	ON		
06-Dec-17	Wednesday	00:00	Empty	ON		
		08:00	Empty	OFF	Magnet change	
		16:00	Empty	OFF	Flip-mode, 2016-05-1; data taking	
07-Dec-17	Thursday	00:00	Empty	OFF	Flip-mode, 2016-05-1; data taking	
		08:00	Change	???	Magnet change	
		16:00		???	Flip-mode, 2017-02-8; data taking	
08-Dec-17	Friday	00:00		???	Flip-mode, 2017-02-8; data taking	
		08:00		???	Magnet change	
		16:00	???	Flip-mode, 2016-05-1; data taking		
09-Dec-17	Saturday	00:00	???	Flip-mode, 2016-05-1; data taking		
		08:00	Empty	???	Ramp magnets down	
		16:00	Empty	ON		
10-Dec-17	Sunday	00:00	Empty	ON		
		08:00	Empty	ON		
		16:00	Empty	ON		
11-Dec-17	Monday	00:00	Empty	ON		
		08:00	Empty	ON	Magnet ramp	

SSD Quench

Absorber change

Data Plan

		LiH M2	16:00	Empty	ON	Flip-mode, 2017-02-7; data taking
12-Dec-17	Tuesday		00:00	Empty	ON	Flip-mode, 2017-02-7; data taking
			08:00	Empty	ON	Magnet change
			16:00	Empty	ON	Flip-mode, 2017-02-8; data taking
13-Dec-17	Wednesday	Absorber change	00:00	Empty	ON	Flip-mode, 2017-02-8; data taking
			08:00	Change	???	Magnet change
			16:00		???	Soln-mode, 2017-02-6; data taking
14-Dec-17	Thursday		00:00		???	Soln-mode, 2017-02-6; data taking
		08:00	???		Ramp magnets down	
15-Dec-17	Friday	Wedge	16:00	???		
			00:00	???		
			08:00	LiH	???	
			16:00	LiH	ON	
16-Dec-17	Saturday		00:00	LiH	ON	
			08:00	LiH	ON	Magnet ramp
			16:00	LiH	ON	Soln-mode, 2017-02-6; data taking
17-Dec-17	Sunday		00:00	LiH	ON	Soln-mode, 2017-02-6; data taking
			08:00	LiH	ON	Magnet change
			16:00		ON	Flip-mode, 2017-02-7; data taking
18-Dec-17	Monday		00:00		ON	Flip-mode, 2017-02-7; data taking
			08:00		ON	Magnet change
			16:00		ON	Flip-mode, 2017-02-8; data taking
19-Dec-17	Tuesday		00:00		ON	Flip-mode, 2017-02-8; data taking
			08:00		ON	Ramp down
			16:00		???	
20-Dec-17	Wednesday		00:00		???	
ISIS off			08:00			

Data Plan

MICE Equipment

US equipment – ‘leave in place’?

- RF co-ax components to CERN.
- Amplifiers?

Daresbury test stand

- Amplifiers returned to CERN

UK Equipment

- RF to ISIS. – Triodes.
- Spares to MICE Hall (temporary)
- Some equipment returned to Universities.