

Summary of run meeting 8 August 2011

Present:

Andy Nichols
Tim Hayler
Pierrick Hanlet
Gail Hanson
Linda Coney
Victoria Blackmore
Lucien Cremaldi
Alan Bross
Yagmur Troeun
Paul Hodgson
Henry Nebrenski
Galina Vankova
Adam Dobbs
Mike Zisman
Mike Courthold
Maurizio Bonesini
Ruslan Asfandiyarov
Ken Long
+ Anyone I forgot

Charge:

to discuss the consequences of the target failure and the running schedule of MICE between now and March 2012. The baseline assumption is that we replace the target with a new one in December-January and run with it for the 'EMR run' in March. The question is if we need some additional running in October-November.

TRANSPARENCIES:

<http://mice.iit.edu/pc/pc477/pc477.html>

Agenda

1. Report from Target: what happened and plans Hodgson
2. What data have been taken in June-July 2011 Victoria
3. ISIS schedule in Q4 2011 and Q1 2012 Pierrick
4. PM comments consequences of additional running Nichols
5. EMR plans — Ruslan Asfandiyarov
6. Cherenkov needs — Lucien Cremaldi
7. TOF needs — Maurizio Bonesini
8. AoB :
Coney (online group), Rayner (analysis) Courthold (DK solenoid)



Notes.

A Boundary Conditions

1. Overall schedule (see next slide) restarts 19 Sep11, 14 Nov11, 6 Feb12

Insertion of new target in ISIS must be done in shut downs (best) or in run-ups but then must stop beam.

2. Target. Two possibilities

T2.9 (with new shaft, and partly new optical fibers)

install asap. after test in R78 (possibly in September still)

run it until e.g. it breaks or replace for step IV.

T3.x wait for new stator and brand new target. likely Jan 2012

3. Decay solenoid: power supply has signs of weakness.

Needs understanding and repair. Ongoing

B Desires

• TOF needs to calibrate TOF0 and TOF1 to be sure of quality of new tubes
1 solid week of running

2. Cherenkov needs to demonstrate that it works

Use TOF calib runs + 1 day of dedicated scan

3. Online Group needs to run MICE regularly and commission online reco

4. no need before March for EMR and Step I commissioning

ISIS running
schedule —
2011-2013

IMC/P92/10

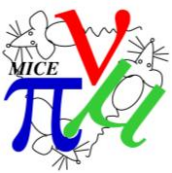
Agreed by IMC
19-Apr-11

120 days excl. down-time + 75% = 160 days scheduled

Cycle no.	Start	Finish	Days				
	Monday 8-Aug-11	Sunday 18-Sep-11	42	106.9			Shutdown (incl. TS-1 moderator change) [Summer Bank H. 29-Aug]
	Monday 19-Sep-11	Sunday 2-Oct-11	14				Run-up + machine physics
	Monday 3-Oct-11	Monday 3-Oct-11	1				Beam line permits
2011/03	Tuesday 4-Oct-11	Thursday 3-Nov-11	30	30.6	91.9		Cycle 2011/03
	Friday 4-Nov-11	Sunday 6-Nov-11	3				Machine physics
	Monday 7-Nov-11	Sunday 13-Nov-11	7				Short shutdown
	Monday 14-Nov-11	Sunday 20-Nov-11	7				Run-up + machine physics
	Monday 21-Nov-11	Monday 21-Nov-11	1				Beam line permits
2011/04	Tuesday 22-Nov-11	Thursday 22-Dec-11	30	30.6	122.5		Cycle 2011/04
	Friday 23-Dec-11	Friday 23-Dec-11	1				Machine physics
	Saturday 24-Dec-11	Sunday 5-Feb-12	44				Shutdown
	Monday 6-Feb-12	Sunday 19-Feb-12	14				Run-up + machine physics
	Monday 20-Feb-12	Monday 20-Feb-12	1				Beam line permits
2011/05	Tuesday 21-Feb-12	Thursday 29-Mar-12	37	37.6	160.1		Cycle 2011/05 — provisional
	Friday 30-Mar-12	Sunday 1-Apr-12	3				Machine physics
	Monday 2-Apr-12	Sunday 29-Apr-12	28	98.9			Shutdown (incl. TS-1 moderator change) [Easter 06-09-Apr]
	Monday 30-Apr-12	Sunday 13-May-12	14				Run-up + machine physics [May Bank H. 07-May]
	Monday 14-May-12	Monday 14-May-12	1				Beam line permits
2012/01	Tuesday 15-May-12	Thursday 14-Jun-12	30	30.6	30.6		Cycle 2012/01 [Spring Bank H. 28-May] — very provisional
	Friday 15-Jun-12	Sunday 17-Jun-12	3				Machine physics
	Monday 18-Jun-12	Sunday 1-Jul-12	14				Shutdown
	Monday 2-Jul-12	Sunday 8-Jul-12	7				Run-up + machine physics
	Monday 9-Jul-12	Monday 9-Jul-12	1				Beam line permits
2012/02	Tuesday 10-Jul-12	Thursday 9-Aug-12	30	30.6	61.3		Cycle 2012/02 — very provisional
	Friday 10-Aug-12	Sunday 12-Aug-12	3				Machine physics
	Monday 13-Aug-12	Sunday 16-Sep-12	35				Shutdown [Summer Bank. H. 27-Aug]

Pierrick
Attached is the latest ISIS schedule. Although formally the Feb-Mar 2012 cycle is still provisional, I'll be very surprised if we don't run it as scheduled.

David



Conclusions

will run for TOF/Cherenkov/Online in the fall ISIS user run, for two weeks, conditional to:

- 1) debugging the new target
- 2) having a fully reliable decay solenoid
- 3) the TOF/CKOV/online champs (c/o Maurizio, Lucien and Linda) being present

Additional circumstances

- BPM will be taken out of beam (Craig to disconnect)
- Linearity of quads to be measured with Hall probes
- downstream detectors (TOF2, KL) are not in the way of step IV plates installation
- if delay in step IV installation is serious, we will try to recover some time from March 2012 run.