

MICE – MICO Milestones

MICO 93, 1st February, 2010

	Milestone complete
	>30 days away
	<30 days away
	Passed & not complete
	Milestone to be highlighted at meeting

1. ISIS Issues – C.Rogers

Task	Baseline	Status	Revised Date	Notes	
Permanent BPS	9/6/08				
DEC shutdown start	24/12/09				
DEC shutdown finish	31/1/10				
Cycle 2009/05 start	16/2/10				
Cycle 2009/05 finish	25/3/10				
Easter shutdown start	29/3/10				

2. Targets #1 & 2 – K.Long

Task	Baseline	Status	Revised Date	Notes	
T2r shafts ready	9/10/09		15/1/10		
T2r bearings ready	9/10/09		15/1/10		
T2r assembly complete	12/10/09		15/1/10	On schedule today	
T2r in R78	14/10/09		20/1/10		
Decide offline runplan	15/10/09		?????	Suspect problem with T2 stator	
Update drgs for T3	29/10/09			Offline target assy with Vespel bearings	
T3 stator & body complete	2/12/09		???	Plan to make new stator(s)	
T3 bearings complete	23/11/09		15/1/09	Waiting for material material due 23/12	
T3 assy ready to run	30/12/09		15/1/10		
Target gathering with ISIS	18/12/09				

3 Cryogenic systems – M.Courthold

Task	Baseline	Status	Revised Date	Notes	
Transfer line repair	14/7/09		15/10/09	Bracket mod required, leak gone, not critical	
Turbine chiller repair	22/6/09		3/7/09	Done	
Compressed air connections	10/7/09		31/1/10	Jan shutdown	

HE lines complete	9/7/09				
Vac system complete	14/7/09				
Quench detector rebuild	11/9/09		Need date?		
Fridge optimisation	2/9/09				
Magnet commissioning complete	7/8/09		21/8/09	Has run full current for 24 hrs, 48 hr run this week	
8K hour fridge service	31/1/10		1/2/10?	Some problems with cooldown, Investigating N2 & H2O impurity levels	
Visit AS Scientific R&D system	7/10/09				
Cooldown LH R&D system	30/11/09				
Deliver R&D cryostat to RAL	30/11/09		Need new date	Hardware is complete, decide to store at AS	
H2 vent system in hall design	31/12/08		31/3/09	Is being re-started now	
Decide H2 SIL Philosophy	5/11/08			SIL course completed, Milestones set 16/12/08	
HAZOP 2 review	21/10/08		New date from above	Mike C/Serco organize, need firm dates	
Final safety review	30/11/08		New date from above	Jane V organize need firm dates	
Submit LH2 commissioning plan to ISIS Safety meeting	Nov 08				
Install H2 vent system in Hall	31/12/08				
Supply pump enclosure	31/12/08				
Supply pipework	31/12/08				
Hall Installation LH2 Prototype system	31/7/09				
Compile H2 operating manual	30/3/09				

4. Integration mechanical – T.Hayler

Task	Baseline	Status	Revised Date	Notes	
Main door replacement	30/5/09		31/3/10	Re-furbish original door	
Compressed air pipework	31/8/09		31/11/09	Waiting Swagelok unions	
Marking out false floor for step III	30/11/09				
Drilling above	31/1/10		31/1/10		

Compressor cooling water layout drgs	15/10/09			Some revisions required	
Cooler compressor water system instlln	31/8/09		28/2/10	Parts arriving now	
Third Virostek disc manuf	31/10/09				
Cooler services support frames	31/10/09		31/3/10	Material arrived	
Compressor support framework	31/10/09		31/3/10	Materials arrived	

4a. Integration electrical – S.Griffiths/H.Loosemore

Task	Baseline	Status	Revised Date	Notes	
Tracker cabling in R5.2 & Control system design	30/6/09			Trenches in floor complete. Cable details to be finalized. Control rack design finished work can start.	
PPS wiring Hall	30/6/09			Work Started	
Earth bonding	27/6/08		Need new date	Impedence test on walls OK. Completion of bonding to assessed.	
LH2 Electrical design of Prototype	Sept 08		Need new date	Offline tests programmed for May/June 09. Prototype design started	
LH2 installation	Dec 08		Hall installation to in May 09	LH2 Control room building mods started by BPG. Info of elec layout and flooring provided.	
LH2 AC power Dist	30/5/09			Dedicated supply required to cover heaters and chillers.	
South Wall Services	30/6/09			Meeting 7 th Oct Cable management design complete. Work can start.	
RF design & test TH116 amp	March 09			Long lead items ordered	
Development of 4616 amp	March 09				
PPS Hall Installation	31/5/09			Cable Management in progress.	
Lighting/smoke detectors under mezzanines	26/6/09			H Loosemore, new dates awaited	
A/C power, lighting, rack supplies	26/6/09			HL	
Lighting in porch	26/6/09			HL	
Re-wire main lighting	26/6/09			Minor detail remains	

Site standard fire alarm	26/6/09		30/10/09		
Wire roof fan	26/6/09			HL	
Main substation upgrade	31/12/09			See details from SAG/CW Will NOT happen this FY	
Main Trench	30/06/09			Cable management for Tracker etc. Power Dist & elec services. 208v Dist.	
North Wall Services				Design agreed and complete work can start.	
Coshh & ODD systems	30/6/09			Deferred till step IV	
Compressed Air Supplies	30/4/09			Feed to be provided from suitable supply 3ph & 1ph req..	
Network Systems	31/09/09			Some network installed, to be revised with Craig MacWaters.	
Tof 1& 2 /KL installations				Relocate KL and TOF cables as req.	
Services beneath Raised floor	30/06/09			Assess requirements for KL/TOF/RF etc.	

5. PPS – J.Alexander

Task	Baseline	Status	Revised Date	Notes	
SIL2 rating for DSA	31/12/08?		28/2/10	Quote underway with assessors	
Hall Operational	31/1/09		Summer 2010		
PPS Operator procedure complete	28/8/08				
Compile PPS commissioning plan	28/8/08			Submit to ISIS Safety meeting	
SIL rating for complete system	31/10/09		30/4/10	Final sign-off from FSC/ISIS March 2010	

6. Online – J-S.Graulich

Task	Baseline	Status	Revised Date	Notes	
DAQ moved to DAQ network	March 20				
Upgrade FADC firmware	March 20		31/7/09	Delayed for practical reason: Need Windows PC in MLCR.	
TOF2 Shaper/Splitter Production	March 30				
TOF2 Shaper/Splitter	April 30				

Tests+ Shipment					
CAM data in Online Data Stream			April 30	EPICS part ready. DATE part in progress	
Tracker integrated in DAQ and OLM (Online Monitoring)			15/8/09	Well advanced	
TOF TDC Clock Synchronization			April 30	All parts at RAL	
Prototype Front-End Electronics for SW/EMR	July				
Start production of SW/EMR Front End Electronics	Sept				
SW/EMR integrated in DAQ and OLM	Dec		Mars 2010		

7. Spectrometer Solenoid & RFCC Module – M.Zisman

Task	Baseline	Status	Revised Date	Notes	
S/S#2 training complete	30/11/09		31/1/10	Need new date	
Decision point after training	31/1/10				
#2 to FNAL	20/12/09		21/2/10	AN's estimate only	
#2 field mapping complete	15/2/10		30/4/10		
#2 to RAL	15/4/10		30/5/10	Needs to be revised	
S/S #1 training complete	15/2/10				
#1 to FNAL	15/3/10				
#1 field mapping complete	30/4/10				
#1 to RAL	15/5/10				
201MHz RF cavity, clean & polish 1 st set	28/2/10				
201MHz RF cavity, clean and polish 2 nd set	15/11/10				
Coupling coil #1 fabrication complete	30/6/11				
Coupling coil #2 fabrication complete	30/9/11				
Ship CC#1 to FNAL	30/11/11				
Ship CC#2 to FNAL	31/3/12				

8. AFC module, absorber, diffuser – W.Lau

Task	Baseline	Status	Revised Date	Notes	
Decide FC bobbin plan	19/11/08			TESLA visit 29 th June	
Deliver AFC #1	28/2/10		31/7/10		
Deliver AFC #2	28/8/10		30/10/10		
Test new diffuser motor	23/1/09			Ceramic bearings now at Oxford	
Install control hardware	28/2/09				
M/F reflector rings	28/2/09				
Final test with controls system	31/3/09				
Test integration with tracker	?????		April 2010	Depends on Spectrometer solenoid arrival	
Diffuser installation at RAL	31/5/09		April 2010		
Complete radiation shield drawings	31/7/09				
Radiation shield manufacture			Need date?	M/F at FNAL?	

9. Detectors (Beamline & MICE) – A.Bross

Task	Baseline	Status	Revised Date	Notes	
Lay Tracker cables complete	10/04/08			Coax + fibers to MLCR	
Re-install & test TOF1 & KL for Step I	25/9/09				
Complete tracker cosmic run in R8					
TOF 2 installation & cabling complete	27/11/09		27/11/09	Done, but some cabling required	
Install Luminosity monitor	31/1/10			Has go-ahead from ISIS	
Install proton absorber	30/10/09			Works	
EMR completed	31/7/10				

10. Commissioning Needs – Acting MOM

Task	Baseline	Status	Revised Date	Notes	

11. Installation of Step Two – various!

Task	Baseline	Status	Revised Date	Notes	
Un-cable KL & dismantle	31/12/08				
Remove & store KL frame	31/12/08				

Install rolling platform #1	15/1/09				
Integrate solenoid #1 & cooldown	30/1/09				
Fit diffuser & quench test	5/2/09				
Fit tracker patch panel	7/5/09				
Build tent and lighting	12/2/09				
Install tracker	20/2/09				
Complete tracker cabling	25/2/09				
Fit patch panel cover	25/2/09				
Install VLPC cryostats	28/2/09				
Ditto backing & turbo pumps	5/3/09				
Cooldown	10/3/09				
Calibrate readout	10/3/09				
Final readout connections	15/3/09				
Final fit of diffuser	20/3/09				
Install Virostek plate	22/3/09				
Fit TOF1	25/3/09				
Fit TOF1 shield	30/3/09				
Reposition KL & re-cable	5/4/09				
Install TOF2	5/4/09			Is there a TOF2 shield? No	
Step 2 commissioning complete	10/4/09				

