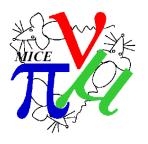


Project Managers Report

CM39 – Oxford

Roy Preece 26th June 2014



Content



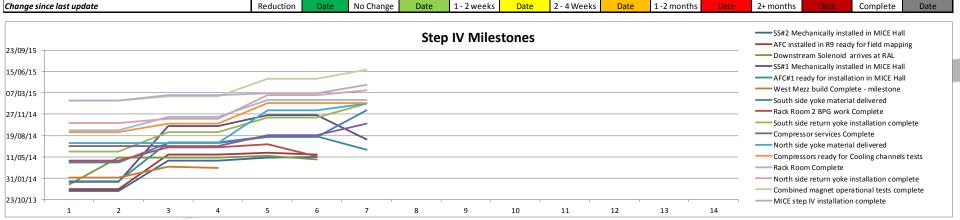
- Where are we / Where are we going
 - Dashboard
 - Critical Path
- Step V Planning
- Communications
 - Dashboard
 - Critical Path / Near Critical
 - Task



Where are we / Where are we going

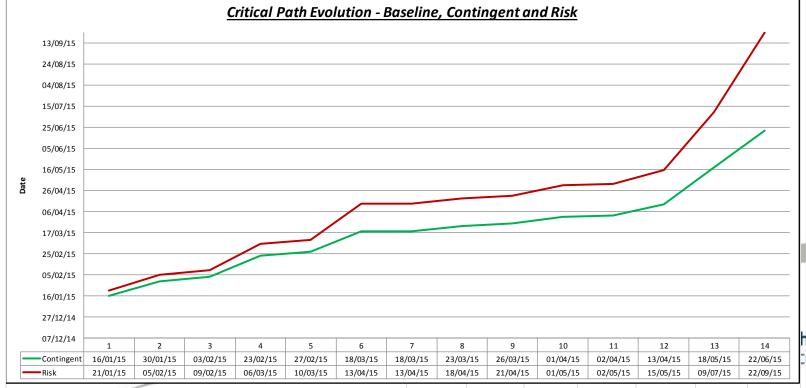


	May-13	Oct-13	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15
Step IV Top Level Milestones														
SS#2 Mechanically installed in MICE Hall	02/12/13	02/12/13	24/04/14	24/04/14	07/05/14	09/05/14								
AFC installed in R9 ready for field mapping	10/12/13	10/12/13	23/05/14	23/05/14	30/05/14	23/05/14								
Downstream Solenoid arrives at RAL	03/01/14	08/05/14	08/05/14	08/05/14	16/05/14	30/04/14								
SS#1 Mechanically installed in MICE Hall	13/01/14	13/01/14	01/10/14	01/10/14	21/11/14	21/11/14	01/08/14							
AFC#1 ready for installation in MICE Hall	16/01/14	16/01/14	18/07/14	18/07/14	14/08/14	14/08/14	13/06/14							
West Mezz build Complete - milestone	04/02/14	04/02/14	25/03/14	19/03/14										
South side yoke material delivered	15/04/14	15/04/14	15/07/14	15/07/14	11/08/14	11/08/14	15/12/14							
Rack Room 2 BPG work Complete	23/04/14	23/04/14	24/06/14	24/06/14	09/07/14	12/05/14								
South side return yoke installation complete	04/06/14	04/06/14	03/09/14	03/09/14	12/11/14	12/11/14	16/01/15							
Compressor services Complete	30/06/14	30/06/14	30/06/14	30/06/14	20/08/14	20/08/14	14/10/14							
North side yoke material delivered	15/07/14	15/07/14	15/07/14	15/07/14	15/12/14	15/12/14	16/01/15							
Compressors ready for Cooling channels tests	04/09/14	04/09/14	13/10/14	13/10/14	19/01/15	19/01/15	19/01/15							
Rack Room Complete	12/09/14	12/09/14	13/11/14	13/11/14	02/02/15	02/02/15	02/02/15							
North side return yoke installation complete	17/10/14	17/10/14	05/11/14	05/11/14	23/02/15	23/02/15	18/03/15							
Combined magnet operational tests complete	30/01/15	30/01/15	18/02/15	18/02/15	13/05/15	13/05/15	22/06/15							
MICE step IV installation complete	30/01/15	30/01/15	25/02/15	25/02/15	04/03/15	04/03/15	13/04/15							
Step V Top Level Milestones														
LH2 absorber #2 at RAL (KEK)	28/09/12	28/09/15	28/09/15	28/09/15	28/09/15	28/09/15			eing in\		od			
AFC#2 ready for installation in MICE Hall	28/10/13	28/10/13	29/10/14	29/10/14	29/10/14	29/10/14			in	estigar	200			
Amplfier#2 installation complete	26/08/14	26/08/14	26/08/15	26/08/15	26/08/15	26/08/15		ا مان	eing ''''					
Cavity & RFCC module #1 delivered to RAL	03/01/17	06/03/18	06/03/18	06/03/18	06/03/18	06/03/18	Sc	readic -						
MICE step V installation complete	26/06/17	28/08/18	28/08/18	28/08/18	28/08/18	28/08/18								



Where are we / Where are we going







Where are we / Where are we going Active Milestones



Task Name	Finish	Task Name	Finish
Intrumentation & controls for SS downstream delivered from WANG	30/06/2014	Sign Off / Complete - Compressors Sevices complete	14/10/2014
Instrumentation & controls available from WANG	30/06/2014	Compressors - electrically ready	14/10/2014
Mechanical Modifications to PSS complete	30/06/2014	3 phase mains connections at compressor positions in place?	14/10/2014
Cooling Channel Racks DL tests complete for SS upstream & FC PSU racks	11/07/2014	Framework in place for stack of two compressors	14/10/2014
Finalise electrical/control design Philosophy	18/07/2014	South side yoke frame steelw ork delivered	24/10/2014
Sign Off / Complete - Compressor support structures and pow er	24/07/2014	Electrical & controls available for AFC#1 MICE Hall testing	12/11/2014
SS prep w ork complete	31/07/2014	Electrical & controls available for SS#2 MICE Hall testing	17/11/2014
Downstream Solenoid & Tracker Assy complete	14/08/2014	Electrical & controls available for SS#1 MICE Hall testing	18/11/2014
Cooling Channel Racks DL tests complete for SS#downstream & energy absorber racks	14/08/2014	Compressors - electrically ready	27/11/2014
SS#2 Mechanically installed in MICE Hall	25/08/2014	South side yoke wall material delivered	15/12/2014
Downstream spectrometer solenoid in place on cooling channel?	25/08/2014	Sign Off / Complete - Compressors ready for operation	13/01/2015
Chilled water piping & flow meters at compressor postions in place?	01/09/2014	North side yoke frame steelw ork delivered	16/01/2015
Rack available for tests	10/09/2014	North side yoke material delivered	16/01/2015
DL vac controls rack & software (NW corner) in place around Nov 2014	26/09/2014	South side return yoke installation complete	16/01/2015
Trial connect and reform south side external waveguides?	01/10/2014	South side PRY in place by Mid Oct 2014	16/01/2015
Connect phone dialler?	01/10/2014	Upstream spectrometer solenoid in place on cooling channel?	16/01/2015
Ship back David Adey kit from the US	01/10/2014	Connect 115V transformer to Lid Heater box	23/01/2015
Compressors - electrically ready	06/10/2014	Sign Off / Complete - Rack room 2	02/02/2015
LH2 absorber #2 at RAL (KEK)	08/10/2014	North side return yoke installation complete	18/03/2015
Sign Off / Complete - Compressors Sevices complete	14/10/2014	North side PRY in place by Feb 2015	18/03/2015
Compressors - electrically ready	14/10/2014	MICE step IV installation complete	13/04/2015
3 phase mains connections at compressor positions in place?	14/10/2014	Combined magnet operational tests complete - milestone	22/06/2015



Step V Planning



- Lots of work to do
 - Single cavity test stand is it possible to do in the Hall?, DL?
 - RFCC construction and shipping
 - Liquid Hydrogen system 2 build and test
 - RF system 2 build and test
- Aspirational date for delivery of the RFCC is September 2016
 - Desire to have the South PRY delivered June 2016
 - This would imply a possible shortening of Step IV running March 2016.
 - Then when RFCC arrives September 2016, from the prep work can be installed directly in the hall.
 - Completion finishes with the installation of the North side PRY late 2016



Step V Planning

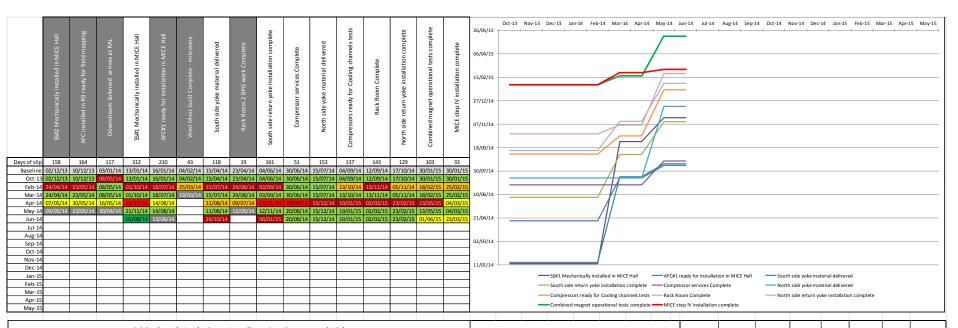


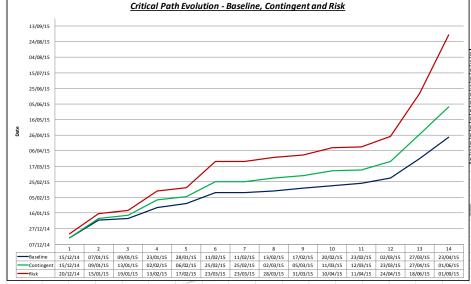
- This date would require a funding bump in the UK
 - Funding is currently flat
- If extra funding were available
 - Decommissioning of Step IV would need to be started around 6 months before the arrival of the PRY and RFCC
 - Step IV End March 2016
 - Step V Construction completed November 2017
 - Important to have Operational plan to fit with construction scheduling



Information communication Where can you find project information







Critical Path Task	Baseline finish date (no contingency)	Finish date with 35% Contingency	Delayed Finish due to Risk Realisation	Risk Level attributed to task	Duration of Risk level (days)	Probability of risk being attracted	Duration delay (Days)	Sequencial Delay (Days)
North side yoke frame steelwork delivered	15/12/14	15/12/14	20/12/14	3	20	25%	5	5
Survey Floor & PRY Legs	07/01/15	09/01/15	15/01/15	5	5	25%	1.25	6.25
Cut shim	09/01/15	13/01/15	19/01/15	6	0	0%	0	6.25
Install frame legs (inc drilling plates)	23/01/15	02/02/15	13/02/15	4	10	50%	5	11.25
Survey PRY legs	28/01/15	06/02/15	17/02/15	6	0	0%	0	11.25
Fit North side yoke plates	11/02/15	25/02/15	23/03/15	3	20	75%	15	26.25
North side return yoke installation complete	11/02/15	25/02/15	23/03/15	6	0	0%	0	26.25
Cryostat stands - North side in place	13/02/15	02/03/15	28/03/15	6	0	0%	0	26.25
Move North side cryostats to hall and place in position	17/02/15	05/03/15	31/03/15	6	0	0%	0	26.25
Reform and connect external waveguides to fit from PP to Cryostat	20/02/15	11/03/15	10/04/15	5	5	75%	3.75	30
Errect trellis to support external waveguides - After North PRY installation	23/02/15	12/03/15	11/04/15	6	0	0%	0	30
Re-install TOF2, KL, EMR	02/03/15	23/03/15	24/04/15	5	5	50%	2.5	32.5
Spectrometer Solenoid preparation for lattice operation	27/03/15	27/04/15	18/06/15	2	40	50%	20	52.5
Combined magnet operation	23/04/15	01/06/15	01/09/15	2	40	100%	40	92.5



Package Name	e WBS			Name	% Start Date Finish Date Duration Critical	Days to Finish should be Work complete
				Electrical		
Electrical				and commissioning	0% 12/06/2014 17/07/2014 5 wks No	
Electrical	5.1.7.1.6.7			ogger & QD system	0% 17/07/2014 21/07/2014 2.5 days No	28 0%
Flectrical	5.1.7.2.12.1	Disconne	ect racks on	oke on electrical connections to SC magnets	0% 05/05/2014 13/05/2014 13.88 days No	-46 1005
Electrical	5.1.7.3.16	Instrume	entation & o	controls available from WANG	0% 05/05/2014 13/05/2014 6.24 days No	7 7 0%
Electrical				ct existing PSU	0% 11/03/2014 14/03/2014 2.5 days No	 Important to know what task are
Electrical	5.1.7.4.11	Installati	ion PSU at I	RAL	0% 14/03/2014 24/03/2014 1.25 wks No	-51 100/8
Electrical	5.1.7.5.2.2.6	Rack ava	ling Charge	ests lel Vacuum controls rack at DL	0% 06/06/2014 06/06/2014 0 days No 0% 16/06/2014 03/07/2014 12.49 days No	running late
Electrical	5.1.7.5.2.2.7				0% 03/07/2014 03/07/2014 12.49 days No	14 0%
Electrical	5.1.7.6.8.2		rack design		50% 20/06/2014 10/07/2014 13.88 days No	17 15%
				Mechanical		
Mechanical	5.1.3.6.5	Install Co	ompressor.	Stands & final water connection	0% 20/05/2014 17/06/2014 20.25 days No 0% 17/06/2014 04/07/2014 13.5 days No	Took that are pass to the switted in the
Mechanical Mechanical	5.1.3.6.6 5.1.4.2.11			n Stands & final water connection om 2 BPG work	0% 17/06/2014 04/07/2014 13.5 days No 0% 09/07/2014 09/07/2014 0 days No	• Task that are near to the critical path
	10.4.7.6.11	Somplet		Shipping	T. T. T. O. T. C. T. O. O. T.	•
Shipping	3.2.2.2	Intrumer	ntation & co	controls for SS downstream delivered from WANG	0% 30/06/2014 30/06/2014 0 days No	as well as the critical path tasks
				Spec Sol		
Spec Sol	4.7.3		pump dow		27% 27/05/2014 01/07/2014 25 days No	• Red – Critical Path
Spec Sol	5.4.7.2	Clean.uc	area of m	te - replacement agnetic components	0% 15/04/2014 17/04/2014 2.7 days No	Nod — Ontioan Laur
Spec 301	J. T. J. J	- Locali UL	urca Or Mi	agnetic components Tracker	, 77, 17, 07, 2014 17, 07, 2014 2.7 uays No	• Oranga imminant
Tracker	4.8.9			ition using gauge	0% 20/06/2014 25/06/2014 2.7 days No	Orange – imminent
Tracker	4.8.10			ture for Coffin	0% 25/06/2014 26/06/2014 1.35 days No	3 0%
Tracker	4.8.11 4.8.12		nstallation p		0% 26/06/2014 30/06/2014 1.35 days No	Yellow - Near
Tracker Tracker			elium wind	low rk in place end June 2014	0% 30/06/2014 01/07/2014 1.35 days No 0% 30/06/2014 30/06/2014 0 days No	8 0% TOHOVV TYCAT
Tracker	5.4.9.2.1			oox (Drill box,pot fibes & PCB and Solder)	0% 12/05/2014 14/05/2014 2.7 days No	-40 100%
Tracker	5.4922	Polish 2	sets (Otv20	Of OF LED fibres in small connectors Trask Name	0% 12/05/2014 13/05/2014 135 days No	AT TOOK
Tracker	ID % Li Compile	0.5%	100		Baseline Finish Start Finish 1113 25/08	11 September
Tracker	3 0% R 9 60% R	R1 R1	3	ISIS Run Cycle Shipping	Mon 01.09/06 Mon 15/12/14 Mon 05/10/09 Mon 15/12/14	15/2
Tracker	19 99% R 32 0% R	R2 R2	3.2	Spectromater Scienoids (Tracker) Liquid Hydrogen System	Mon 160614 Wed 01/0613 Mon 30/0614 Wed 08/1014 Fri 22/10/10 Wed 08/10/14	0610
Tracker	44 0% R 46 0% R	R2	3.6	Diffuser Return Yoke	Thu 01/05/14 Thu 01/05/14 Thu 31/07/14 Mon 15/12/14 Frt 24/10/14 Mon 15/12/14	Shira Vales
Tracker	52 87% R	R1		Pre Installation Work	Mon 1512/14 Fri 24/10/14 Mon 1512/14 Mon 04/08/14 Wed 01/06/11 Mon 25/08/14 25/08 Fri 25/07/14 Wed 01/07/2 Thu 14/08/14	
Tracker	92 96% R	R2	4.5	AFCH Field tests R9 Spectrometer Sciencid - Upstream	Wed 14/05/14 Thu 10/10/13 Wed 20/08/14/08	
Tracker	141 0% R	RI	4.8	Tracker Installation - Downstream Installation	Mon 0408/14 Wed 04/06/14 Mon 25/08/14 p 25/08 Mon 02/03/15 Thu 01/04/10 Mon 23/03/15	¥ 2705
Tracker	173 81% R 863 31% R	R2 R2	5.1 5.4	Infrastructure MICE Step N Installation	Thu 13/11/14 Thu 01/04/10 Mon 02/02/15 Mon 02/03/15 Mon 17/01/11 Mon 23/03/15	₩ 02/05
Tracker	902 0% R	R3	5.45 5.45.1	Return Yoke South PRY Frame Legs	Wed 11:02/15 Mon 01:09/14 Wed 25:02/15 oke	South PRY Frame Lags 40412
Tracker	904 0% T	T	5.4.5.1.1	South PHY Frame Legs Survey Floor & PRY legs Cut shim	Tue 04/19/14 Fri 31/10/14 Thu 06/19/14	Survey Roor & PRY leas
Tracker	905 0% T 906 0% T	Г	5.4.5.1.2 5.4.5.1.3	Install frame legs (inc drilling plates)	Thu 06/11/14 Thu 06/11/14 Mon 10/11/14 Thu 20/11/14 Mon 10/11/14 Fri 28/11/14	Cut shiring 40 11 Install trame lage (inc drilling plates), 28 11
	907 0% T 908 0% T	T	5.4.5.1.4 5.4.5.2	Survey PRY legs Fit Yoke mount services management	Tue 25/13/14 Fri 28/13/14 Thu 64/12/14 Fri 05/09/14 Mon 01/09/14 Tue 09/09/14/ment 09/09/14	paros Surray PRY to 319 4412
	909 0% T	Т	5.4.5.3 5.4.5.4	Fit south side yoke plates South side return yoke installation complete	Tue 09/12/14 The 04/12/14 Tue 06/05/15 Tue 09/12/14 Tue 06/05/15 Tue 06/05/15	Fit south side yole plately — \$601 Bouth side rotten yole installation completing 6001
	911 0% R 912 0% T	R4	5.4.5.5 5.4.5.5.1	North PRY Frame Legs Survey Floor & PRY Legs	Wed 28/01/15 Mon 05/01/15 Fri 06/02/15 Wed 07/01/15 Mon 05/01/15 Fri 06/01/15	North PRT Frame Logs 4002 Survey Rood & PRT Logs 4000
	913 0% T	T	5.4.5.5.2 5.4.5.5.3	Guishim Install frame legs (no driling plates)	Fri 02/01/15 Fri 02/01/15 Tue 13/01/15 Fri 22/01/15 Tue 13/01/15 Mon 02/02/15	sourcy mote and Logical 2007 301 Install than be die on Children publish (1.00) Install than be die on Children publish (1.00)
	915 0% T	T	5.4.5.5.4	Survey PRY logs	Wad 28/01/15 Mon 02/02/15 Pri 06/02/15	stratus status eight oric directory parts and Survey PRV footige
	916 0% T 917 0% T	T	5.4.5.6 5.4.5.7	Fit North side yoke plates North side return yoke installation complete	Wed 11/02/15 Fri 06/02/15 Wed 25/02/15 Wed 25/02/15 Wed 25/02/15 Wed 25/02/15	Fit North side yeter pube 2502 North side vetum yeter Institution complexified 2502
	918 0% R	R3	5.4.6 5.4.6.1	AFC - Focus coll for step IV AFC#1 Installation	Thu 27/11/14 Pri 15/08/14 Tuo 13/01/15 Thu 30/10/14 Pri 15/08/14 Pri 21/11/14	▼ 2U11
	920 0% T 921 0% T	T T	5.4.5.1.1 5.4.5.1.2	Installation, survey & alignment of AFC#1 Connection of services	Fri 03/08/14 Fri 15/08/14 Wad 03/03/14 03/09/14 Fri 22/08/14 Wad 03/03/14 Mon 22/03/14 prilos 6	-2.00
	922 0% T	T	5.4.5.1.3 5.4.6.2	Gool down Preliminary cool-down	Thu 30/10/14 Wad 12/19/14 Fri 29/19/14 Thu 18/09/14 Tue 23/09/14 Tue 28/10/14 Prefinitions cool-d	Conditions 21.11
	924 0% T	T	5.4.5.2.1	Base temperature test	Fri 05/09/14 Tue 23/09/14 Fri 10/10/14 Base temperature	- 40°10
	925 0% T 926 0% T	T	5.4.5.2.2 5.4.5.2.3	Helum condensation Cooling power at 20K	Fri 12/09/14 Thu 15/10/14 Tue 21/10/14	Cooling power at 2016 21/10
	927 0% T 928 0% R	R4	5.4.5.2.4 5.4.6.3	Warm-up H2 system Hydrogen System test	Thu 18/02/14 Tue 21/10/14 Tue 28/10/14 Thu 27/11/14 Wed 12/11/14 Tue 13/01/15	Warnup Ki syste 66 2500 Hydrogon Sylvan randy 1301
	938 25% R 943 0% R	R3	5.4.7 5.4.8	Upstream Spectrometer Solenold & Tracker Assy Downstream Spectrometer Solenold & Tracker Assy	Wed 05/11/14 Tue 15/04/14 Fri 28/11/14 Tue 04/11/14 Wed 23/07/14 Thu 27/11/14	2211
	948 0% R 1063 0% T	R3	5.4.0	Tracker Hall Integration Re-Install TOF2, KL, EMR	Mon 2302/15 Mon 0505/14 Thu 1203/15 Mon 0203/15 Thu 1203/15 Mon 0203/15	Ph-Install TOF2 KL_EMIS_ 2309
	1054 0% T	T	5.4.11	MICE stop IV installation complete	Mon 02/03/15 Mon 23/03/15 Mon 23/03/15	MICE step IV Installation Completion 23 03
	1056 0% R 1057 0% R	R2	6.1	Commissioning Tracker Pre-beam Comissioning	Thu 23/04/15 Thu 15/01/15 Mon 01/06/15 Thu 05/03/15 Thu 15/01/15 Fri 27/03/15	I Constitutioning 9106 Tracket Physical Constitution 92703
	1068 0% R 1069 0% T 1070 0% T	13	6.1.1 5.1.1.1	South side operations Tast AFE slow controls (Aday)	Tue 27/01/15 Thu 15/01/15 Mon 23/02/15 Fit 19/12/14 Thu 15/01/15 Wed 21/01/15	fours side operations Tel AFE doer controls (AEV) = 2100 2300
	1070 0% T 1071 0% T		6.1.1.2 6.1.1.3	Test Tracker safety interiocks Cryestat Cool down procedure	Fri 09/01/15 Tue 27/01/15 Fri 30/01/15 Thu 15/09/15 Fri 30/01/15 Fri 06/02/15	Test Tracker safety hetrodas = 3001 Cryostat Cool down propid unit 6 06(2)
	1072 0% T	T I	6.1.1.4 6.1.1.5	LED Calibration & other Initial ISIS RF timing with TOF mimic?	Fn 23'01/15 Fn 350'175 Fn 350'175 Fn 23'01/15 Wad 18'02'15 Wad 18'02'15 Tua 27'03'15 Wad 18'02'15 Mon 23'02'15	Carposital Cool down proceduring
	1073 0% T 1074 0% R	R3	6.1.2	North side operations	Thu 05/03/15 Pri 06/03/15 Pri 27/03/15	Initial Sits RF Brining with TUP hand by
	1075 0% T 1076 0% T	T i	5.1.2.1 5.1.2.2	Tast AFE slow controls (Aday) Tast Tracker safety interiocks	Thu 19/02/15 Pri 06/03/15 Mon 09/03/15 Thu 19/02/15 Pri 06/03/15 Mon 09/03/15	Test Tradker salety Intifriocks
	1077 0% T	T T	6.1.2.3 6.1.2.4	Crysstat Cool down procedure (Full) LED Calibration & other	Wad 25/02/15 Mon 09/03/15 Tue 17/03/15 Thu 05/03/15 Tue 17/03/15 Fri 27/03/15	Cryoniat Cool down procedures 1703 ((Full LEE California o dousle
	1079 0% T	T	6.2 6.3	Spectromater Sciencid preparation for lattice operation Combined magnet operation	Fri 27/03/15 Mon 23/03/15 Mon 27/04/15 Thu 23/04/15 Mon 27/04/15 Mon 01/06/15	Spectrometer Sciencial preparation for lattice operation 27/04
	1081 0% T		6.4	Combined magnet operational tests complete - milestone	Thu 23'04'15 Mon 01/06/15 Mon 01/06/15	Combined meaned operation 01.06 Combined magnet operation tests complete - milestonide 01.06

Information communication Where can you find project information

On the MICE website - http://www.mice.iit.edu/

Dashboard, critical path and task list will be placed under this link



MICE



INTERNATIONAL MUON IONIZATION COOLING EXPERIMENT

— General Information –

Overview of progress on the construction of MICE: Project Dashboard

Executive Board, Technical Board and working group contacts

Collaborator list Collaboration Board Governance

MICEmine MICE-Notes MICE Indico Technical Reference Document Theses

MICE at RAL, RAL proposal and review process

- Upcoming Meetings -

Collaboration Meeting CM 39 (June 25-28, 2014)

-- More --

- Recent Meetings -

MICE Collaboration Meeting - CM38 (February 23-26, 2014, Napa)

MICE Collaboration Meeting - CM37 (November 6-8, 2013 - RAL, Indico)

-- More --

— Links —

MuCool collaboration and test area for cooling R&D

European Neutrino Group and muon storage ring page at CERN

Muon Accelerator Program page at Fermilab

UK Neutrino Factory and MICE-UK pages at RAL

Japanese Neutrino Factory page at KEK

Communication —

Weekly news digest - Photo Album - Drawings and Images

Collaboration Meetings - Speakers Bureau - Mailing Lists

Video and Phone Conferences

FAC Open Sessions MICE Project Board Presentations



Fucardo Transnational access to the ICTF (Ionisation Cooling Test Facility)

(next application deadline: 11 September 2014)

— <u>Academic Training</u> —



The first in a series of academic training lectures was held February 24-25, 2014 during CM38, and were delivered by the distinguished Bob Palmer.

See the Academic Training page for links to videos and slides.

- Working Groups -

MICO (Installation, Commissioning, Operations)

Software - Online - Analysis

Beamline - RF Power - Magnetics

Detectors — Tracker — Radiation Monitor Group

Information communication Where can you find project information

On the MICE website - http://www.mice.iit.edu/

Working Group Wikis

Links to each working group area are given below.

MICE Experiment

- Analysis
- Computing and Software (requires password)
 - Configuration Database
 - MAUS
 - Online Group (requires password)
 - Accelerator Physics Software
 - Controls & Monitoring (a.k.a. CAM or C&M) (requires password)
- Operations

MICE Construction

- · Decay Solenoid
- Magnetic Shielding
- R9 Hall Operations
- Tracker
- Vacuum

MICE Governance

- MICE Governance
 - Collaboration
 - Executive Board
 - Collaboration Board
 - MEMO
 - MIPO
 - External
 - RLSR
 - MPB
 - UK Oversight Committee

- Use of the area is developing
 - Software group use it extensively
 - MIPO, MEMO and EB
- Good place to store common information and documents
 - Extend for additional working groups
 - Vacuum
 - Magnets
 - Detectors
 - •
- Place for the most up to date
 - Schedules
 - Operation plans
 - Presentation pictures
- Association with the log book



Summary

- Progress toward Step IV is extremely encouraging
 - 2/3rd Step IV magnets in the hall All are on site.
- The whole MICE team is pulling together in our common goal
- We have a program of work and we must work that plan
- We should resist "nice to have" changes to the agreed program
- Lets continue the hard work and have a cooling channel to play with next year.



Questions

