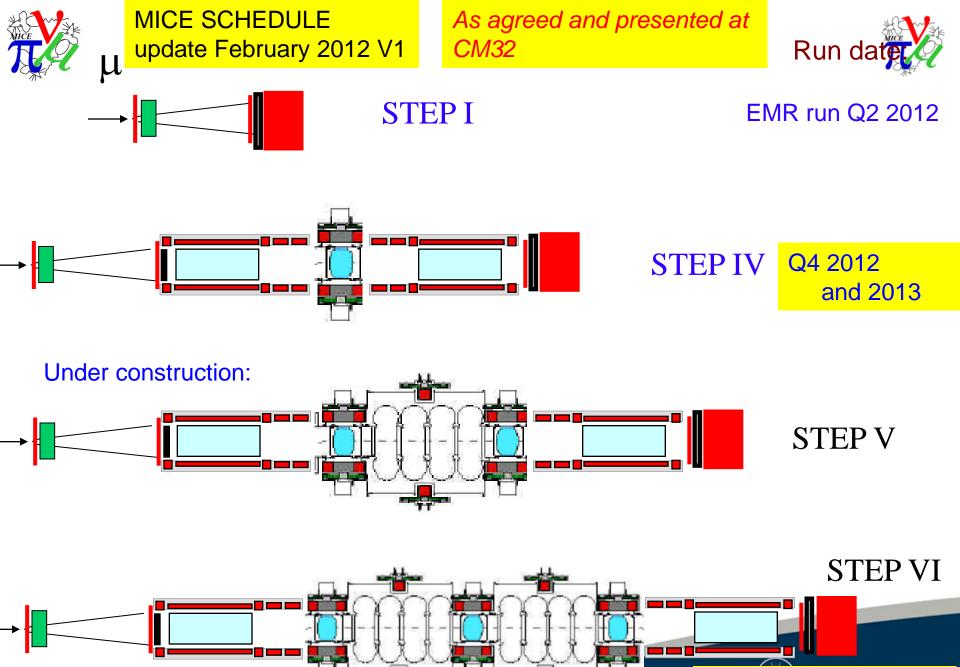
### MICE CM33 Critical schedule items



- Schedule update
- Main schedule drivers
- Request from the MPB

#### Andy Nichols, STFC, 22/6/12



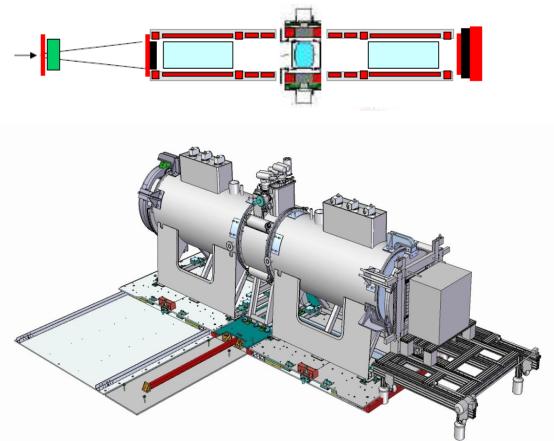


NB: target date 2016



STEP IV





Subsystem	Date
Spectrometer solenoid #1 + #2	Sept'12
Fibre tracker #1 + #2	Ready
Focus coil #1	Jul'12
LH <sub>2</sub> system A	Aug '12
Solid absorber(s)	June '12
Liquid absorber	Ready
Diffuser	Ready
Virostek plate & TOF cage	Ready
assy	
Substation upgrade	Ready
EMR installation	Nov'12
Radiation shutter	June '12
AFC Moving platform #1	Ready
SS platforms Installation	Ready

Step IV ready...<u>Q2, 2013</u>



# Schedule update



- Estimated Step IV delivery date has slipped to Q2 2013, very simple to explain:
  - Delay with FC #1 problems with radiation shield and other minor issues
  - Extended pump-down time for Spectrometer solenoid #1
  - But good news is that these problems are well understood and largely solved, both systems are well on the way, more later this week
  - EMR delivery has been delayed until Nov/Dec, 2012, due to change of fibre supplier not on critical path this year
  - Liquid hydrogen R&D tests have slipped, more for administrative than technical reasons, also off critical path just now, again, more later



# Key schedule drivers



- The major subsystems appear to be well understood
- Magnetic shielding of local equipment is a major consideration for Step IV
  - Our baseline appears to be in tatters
  - *ie, even if we accept that baseline, extensive and heavy additional shielding is required*
  - But other options present themselves:
    - Retro-fitted partial return yokes proposal in TB this week
    - Position everything at or near the West wall in R5.2
    - Make use of space behind North shield wall
  - Any of these options has a schedule and cost implication and we have to do one of them
- Also, mundane but important: the world shortage of LHe
  - Already affecting the spectrometer solenoid commissioning
  - And likely to affect the Focus Coil



# Request from the MPB



- We have been asked for a resource loaded project plan for the whole of MICE, by October 2012
- Probably too ambitious, but need to do what we can
- Re-defined WBS, shown here, reflects evolution of the project
- I need to get the WP Managers to help me with the plan this year
- This is important, as it's first step to getting help with our overall manpower problem

ļ	Level 2	Muon Ionisation Cooling Experim	Level 4	
İ	2.1-Project Management			Nichols
		2.1.1-UK Project management		Grant
		2.1.2-Schedule coordination		Hanson
		2.1.3-Hall schedule		Grant
l		2.1.4-Hall Management		Greenall
		2.1.4-rial Management		Creenan
2.2-MICE	2.2-MICE-Muon-Beamline			Long
		2.2.1-Target		Hodgson
			2.2.1.1-Assembly	Tarrant
			2.2.1.2-Stator	Barber
			2.2.1.3-DAQ&Cntrl	Smith
			2.2.1.4-Software	Hodgson
		2.2.2-Decay-solenoid		Bayliss
		2.2.3-Conventional magnets		Nebrensky
		2.2.4-Diffuser		Blackmore
	0.0 MIOE U.I.I. Easterning and infestion to a			Under
۱	2.3-MICE-Hall Engineering and infrastructure			Hayler
		2.3.1-Integration engineering		Tarrant
		2.3.2-Virostek shielding		Hayler
		2.3.3-Services		Nichols
I		2.3.4-Radiation shutter		Hayler
		2.3.5-Integration-of-Step-IV		Hayler
ļ		2.3.6-Integration-of-Step-VI		Virostek
2.4	2.4-MICE-Detectors and instrumentation			Bross
		2.4.1-TOF		Bonesini
		2.4.2-cKOV		Cremaldi
		2.4.3-Tracker		Long
			2.4.3.1-Trigger-distribution	MacW aters
		2.4.4-EMR	30	Asfandiyarov
			2.4.4.1-EMR Mechanics	Cadoux
2		2.4.5-KL	E.H.H.F EINIT MOONDINGS	Tortora
		2.4.6-Luminosity monitor		Soler
	2.5-MICE-Magnet systems			Preece
		2.5.1-Focus-coil-module		Bradshaw
				Gaurdan
		2.5.2-Coupling magnets		Gourlay
ļ		2.5.3-spectrometer solenoids		Virostek
	2.6-MICE Liquid hydrogen delivery system			Watson
۱	and absorbers	2.6.1-Control engineering		Warburton
		2.6.2-Cryogenic support		Courthold
		2.6.3-liquid hydrogen absorber		Ishimoto
		2.6.4-Solid absorbers		Snopok
	2.7-RF Systems			Li
Í		2.7.1-RF Power source		Moss
		2.7.2-RF Cavities		DeMello
		2.7.3-RF Power distribution		Grant
		2.7.4-Low level RF		Corlett
		2.7.4-LOW IEVEL KF		Conett
I	2.8-Computing			Colling
		2.8.1-Software		Rogers
		2.8.2-Grid		Nebrensky
2		2.8.3-Networking		Macwaters
		2.8.4-Computing support		Wilson
	2.9-Operations			Coney
		2.9.1-Online reco.		Coney
		2.9.2-DAQ/Trigger		Karadzhov
		2.9.2-DAQ/Trigger 2.9.3-Controls & Monitoring		Hanlet
		2.9.4-MLCR		Macwaters

