



MICE Schedule Review no 1

Aims of review and description of review charge

- *Motivation and external drivers*
- *Aims of the review*
- *A few of the problems*
- *Description of Review Charge*

Andy Nichols, STFC, 23-25th May, 2011



Motivation and external drivers

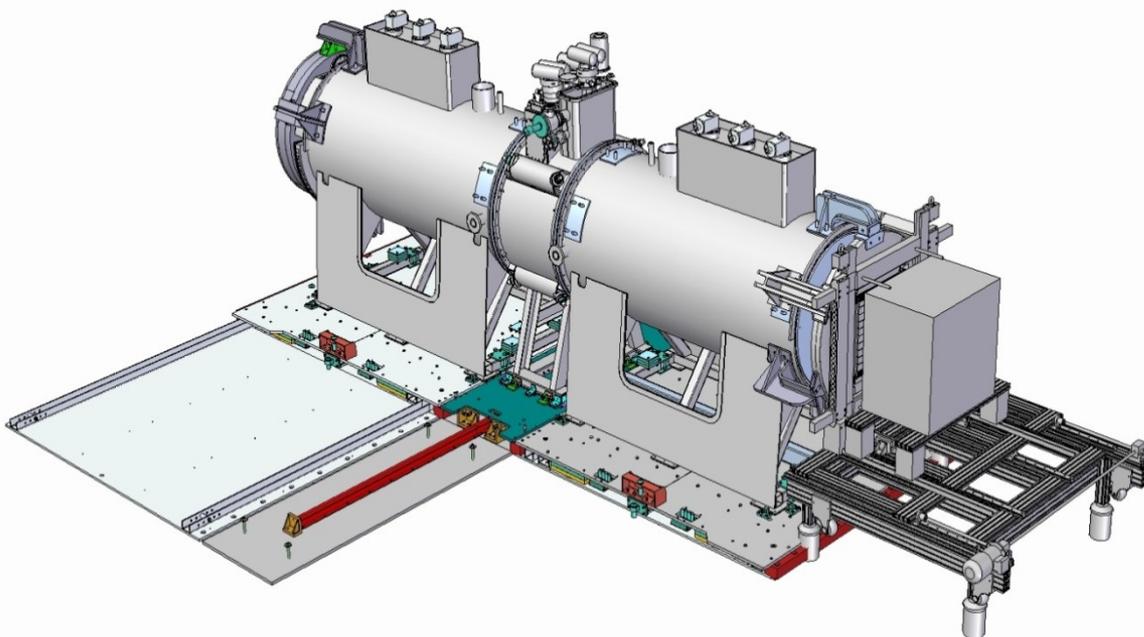
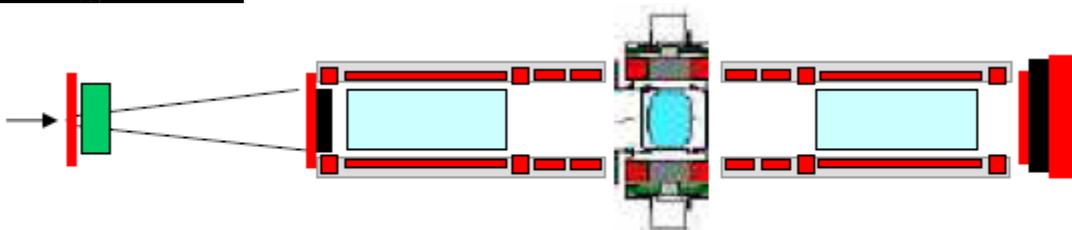
- *MICE will soon start building its muon cooling channel at RAL, the host organisation*
- *It largely comprises major deliverables that are built and provided by the international collaboration*
- *Much of the work is underway and good progress has been made in most areas*
- *But our overall project schedule has slipped very badly indeed*
- *The MICE Project Board (MPB) has very reasonably demanded that MICE provides a robust top-level project schedule for the next MPB meeting on June 28th*
- *Equally important is to regain the overall focus for the project and its collaboration – a constantly slipping deadline is a major de-motivator*

Aims of the review

- *MICE is defined by three discrete R&D Phases:*
 - *Step IV*
 - *Step V*
 - *Step VI*
- *Each step is dominated by only one or more major subsystems, each with their own schedule constraints*
- *Understand the delivery of that subsystem and the rest will fall into place (well almost)*
- *This review aims to get input for an accurate and robust date for Step IV*
- *Ditto for Steps V & VI that are acceptable, but necessarily qualified*
- *The MPB have asked not to be provided with great detail, but a graphical representation, hopefully per the following slides*



STEP IV



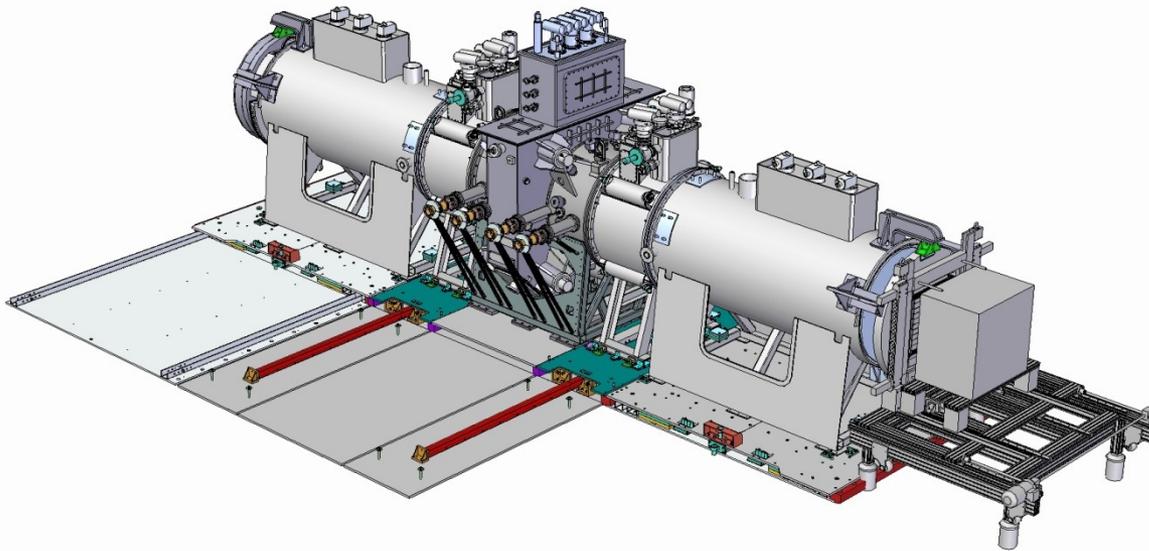
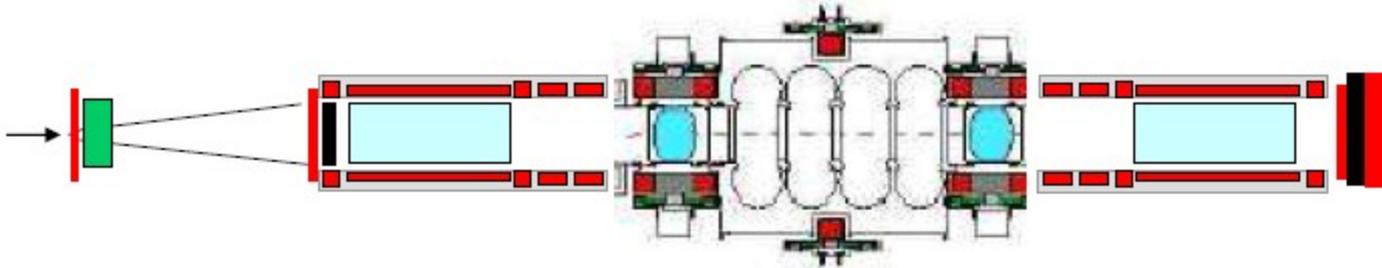
Component	Date
Spectrometer solenoid #1 + #2	April'12
Fibre tracker #1 + #2	Ready
Focus coil #1	July'11*
LH ₂ delivery	Dec '11
Solid absorber	??
Liquid absorber	Ready
Diffuser	June'11
Virostek plate	??
Substation upgrade	June'11
EMR installation	Dec'11
Radiation shutter	??
AFC Moving platform #1	July'11

Step IV ready...Q3, 2012





STEP V

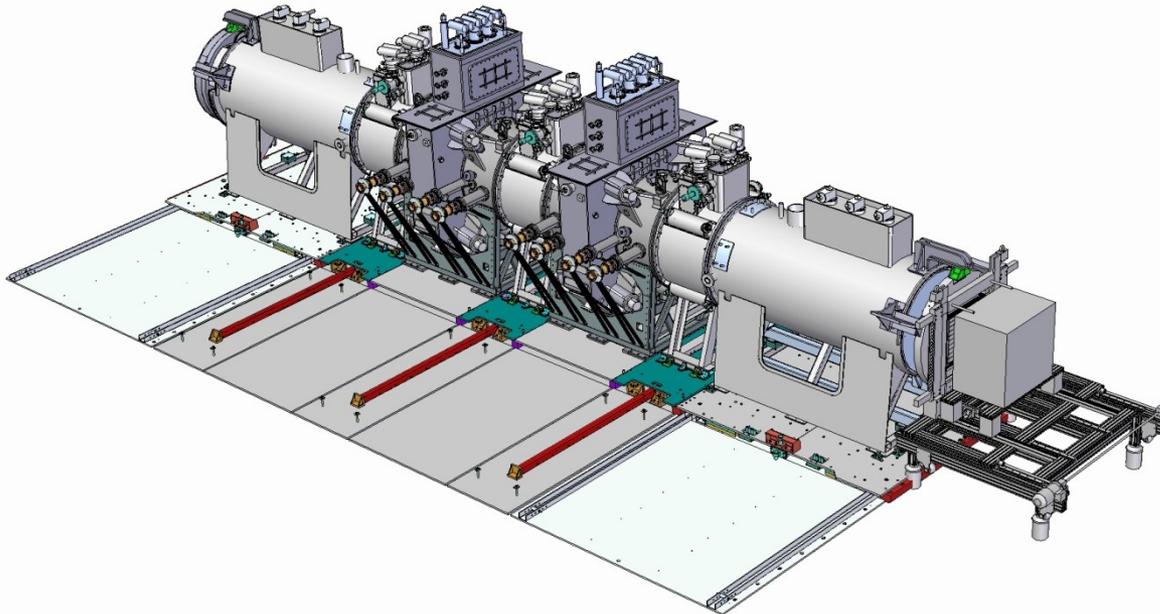
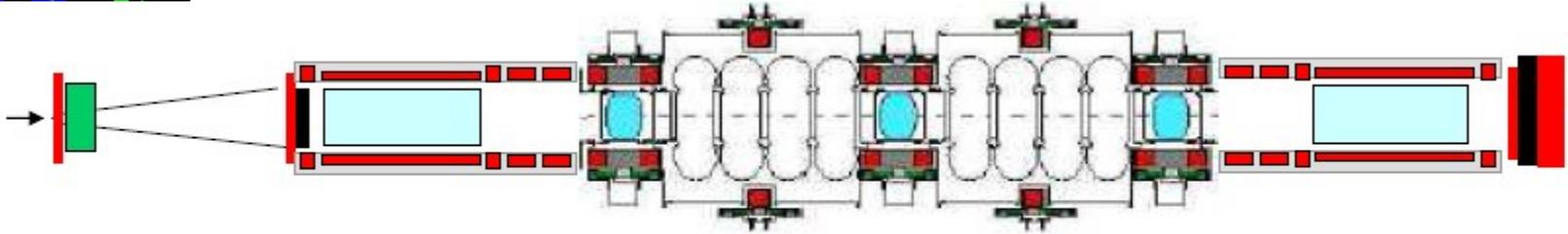


Component	Date
Focus coil #2	
RF Amplifiers	
RF Infrastructure	
RFCC #1	
AFC Moving platform #2	
RFCC Moving platform #1	

Step V ready... 201x



STEP VI



Component	Date
Focus coil #3	
RFCC #2	
AFC Moving platform #3	
RFCC Moving platform #2	

Step VI ready... 201x

A few of the problems.....

- *MICE is organised in a slightly unusual way:*
- *The Project Manager or the host organisation do not have any formalised authority or influence over the international project deliverables*
- *This makes understanding the delivery process exceptionally difficult*
- *We have to do it by ‘polite intervention’, which takes time*
- *The real task is to identify subsystem risks and difficulties and inject help where required – also difficult because of the above*
- *We are all united by one thing though: a strictly resource-limited schedule*



Description of Review Charge

- To review in detail the schedules and plans of the major MICE subsystems for Steps IV, V & VI of the experiment, in terms of delivery schedule, resource availability and project risks.*

