

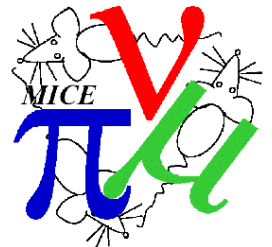


Project Managers Report

Video Conference 171

Roy Preece

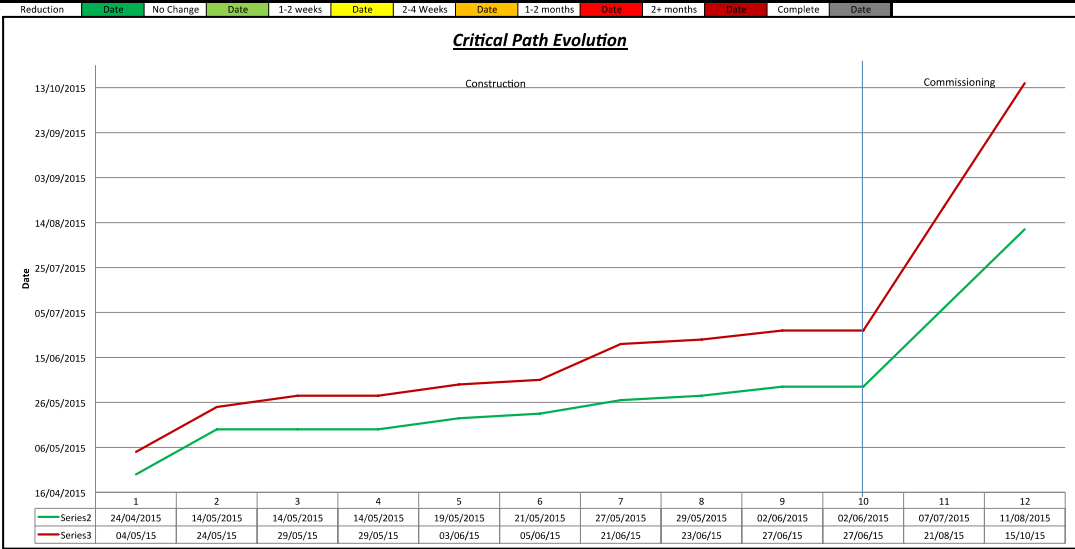
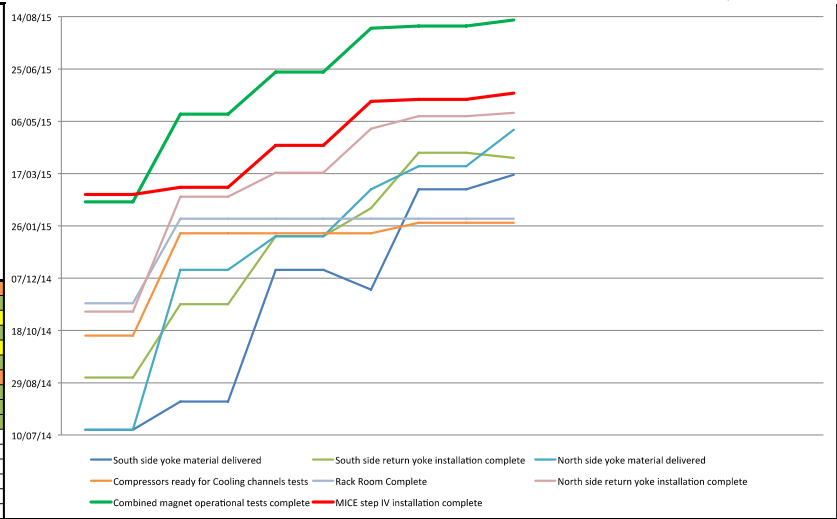
13th November 2014



Dashboard



	SS#2 Mechanically installed in MICE Hall	AFC installed in R9 ready for field mapping	Downstream Solenoid arrives at RAL	SS#1 Mechanically installed in MICE Hall	AFC#1 ready for installation in MICE Hall	West Mezr build Complete - milestone	South side yoke material delivered	Rack Room 2 BPG work Complete	South side return yoke installation complete	Compressor services Complete	North side yoke material delivered	Compressors ready for Cooling channels tests	Rack Room Complete	North side return yoke installation complete	Combined magnet operational tests complete	MICE step IV installation complete
Feb-14	24/04/14	23/05/14	08/05/14	01/10/14	18/07/14	25/03/14	15/07/14	24/06/14	03/09/14	30/06/14	15/07/14	13/10/14	13/11/14	05/11/14	18/02/15	25/02/15
Mar-14	24/04/14	23/05/14	08/05/14	01/10/14	18/07/14	19/03/14	15/07/14	24/06/14	03/09/14	30/06/14	15/07/14	13/10/14	13/11/14	05/11/14	18/02/15	25/02/15
Apr-14	07/05/14	30/05/14	16/05/14	24/11/14	14/08/14		11/08/14	09/07/14	22/03/14	20/08/14	15/12/14	19/01/15	02/02/15	23/02/15	13/05/15	04/03/15
May-14	09/05/14	23/05/14	30/04/14	21/11/14	14/08/14		11/08/14	12/05/14	12/11/14	20/08/14	15/12/14	19/01/15	02/02/15	23/02/15	13/05/15	04/03/15
Jun-14				01/08/14	13/06/14		15/12/14		16/01/15	20/08/14	16/01/15	19/01/15	02/02/15	18/03/15	22/06/15	13/04/15
Jul-14				01/08/14			15/12/14		16/01/15	20/08/14	16/01/15	19/01/15	02/02/15	18/03/15	22/06/15	13/04/15
Aug-14				30/07/14			26/11/14		12/02/15	20/08/14	02/03/15	19/01/15	02/02/15	29/04/15	03/08/15	25/05/15
Sep-14							02/03/15		06/04/15	24/11/14	24/03/15	29/01/15	02/02/15	11/05/15	05/08/15	27/05/15
Oct-14							02/03/15		06/04/15	25/10/14	24/03/15	29/01/15	02/02/15	11/05/15	05/08/15	27/05/15
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Critical Path Task	Finish date with 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)	Sequential Delay (Days)
North side yoke material delivered	24/04/2015	04/05/15	2	40	25%	10	10
Fit North side yoke plates	14/05/2015	24/05/15					10
North side return yoke installation complete	14/05/2015	29/05/15	4	10	50%	5	15
North side PRY in place by Feb 2015	14/05/2015	29/05/15					15
Cryostat stands - North side in place	19/05/2015	03/06/15					15
Move North side cryostats to hall and place in position	21/05/2015	05/06/15					15
Reform and connect external waveguides to fit from PP to Cryostat - After North PRY installation	27/05/2015	21/06/15	3	20	50%	10	25
Erect trellis to support external waveguides - After North PRY installation	29/05/2015	23/06/15					25
Re-install TOF2, KL, EMR	02/06/2015	27/06/15					25
MICE step IV installation complete	02/06/2015	27/06/15					25
Spectrometer Solenoid preparation for lattice operation	07/07/2015	21/08/15	2	40	50%	20	45
Combined magnet operation	11/08/2015	15/10/15	2	40	50%	20	65

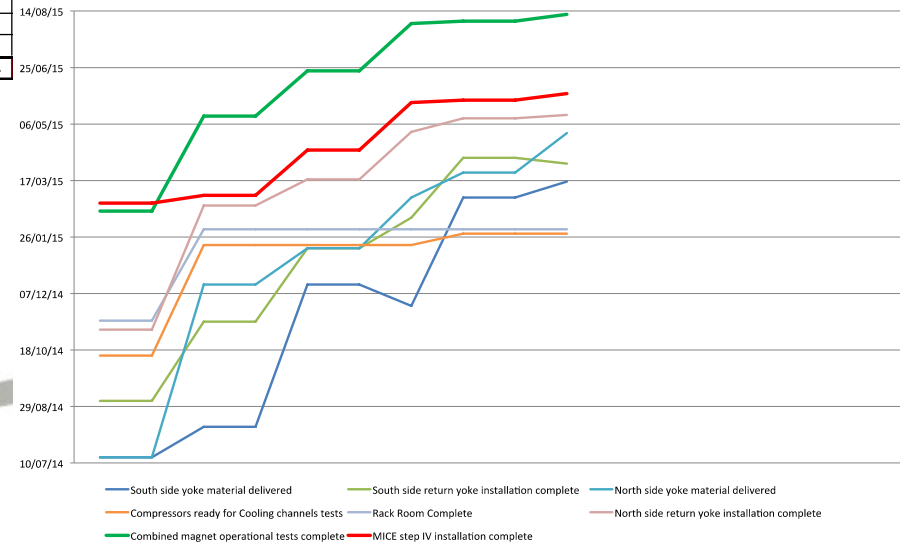
- Focus Coil #2 testing complete - full acceptance of the magnet .
- Diffuser is installed in position
- West wall compressor services complete - power and water available to the compressors
- Floor drilling for PRY base frames complete

A new dashboard to encompass the Cooling Demonstration will replace this dashboard

Slip Chart



	SS#2 Mechanically installed in MICE Hall	AFC installed in R9 ready for field mapping	Downstream Solenoid arrives at RAL	SS#1 Mechanically installed in MICE Hall	AFC#1 ready for installation in MICE Hall	West Mezz build Complete - milestone	South side yoke material delivered	Rack Room 2 BPG work Complete	South side return yoke installation complete	Compressor services Complete	North side yoke material delivered	Compressors ready for Cooling channels tests	Rack Room Complete	North side return yoke installation complete	Combined magnet operational tests complete	MICE step IV installation complete
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Reduction	Date	No Change	Date	1-2 weeks	Date	2-4 Weeks	Date	1-2 months	Date	2+ months						



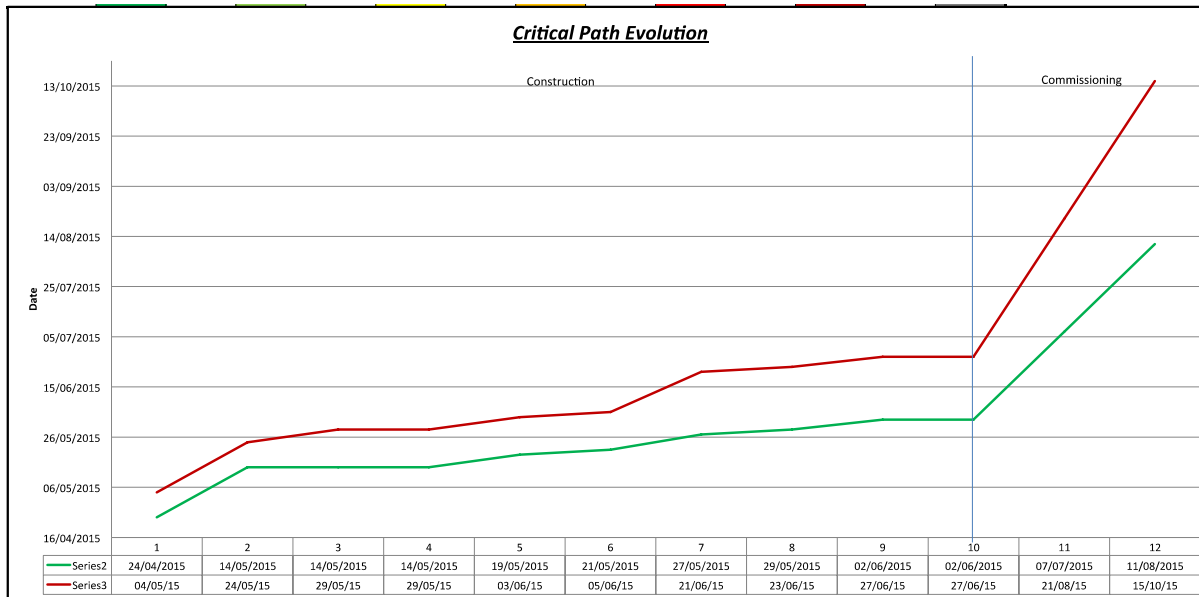
Slip Chart



- Shipping of the Yoke materials has been delayed due to typhoon of the coast of Japan
- Knock on effect on the manufacturing in the US and then the delivery to the UK for installation.
- Two sets of frames are completed at the manufacturing site in the US
- One set will be shipped (south side) in January, earlier than original plan (March)
- This set will be used to set-out the North side and prepare shimming packs/machined blocks and will be surveyed into position.
- Once complete the frames will be installed in their final position on the South side of the channel.
- The remaining frame set at the manufacturing site will be used for fit checks of the steel plates for both the North and South sides.
- In doing this operation, survey and shimming, installation time of the bulk of the PRY will be reduced during the final days of the construction project.
- Any issues found can be dealt with far in advance of the final construction.



Critical Path



- North PRY on the critical path but as previously described mitigation is in place to reduce the risk on installation.
- North side Tracker Cryostats will be in position but there may be a need to move if in danger of being damaged. If not needed to move this will be a time saving.
- Operation of the lattice still a high risk due to unknown operational problems.
- ***Any time savings at any point along this path will equate to more data taking time***

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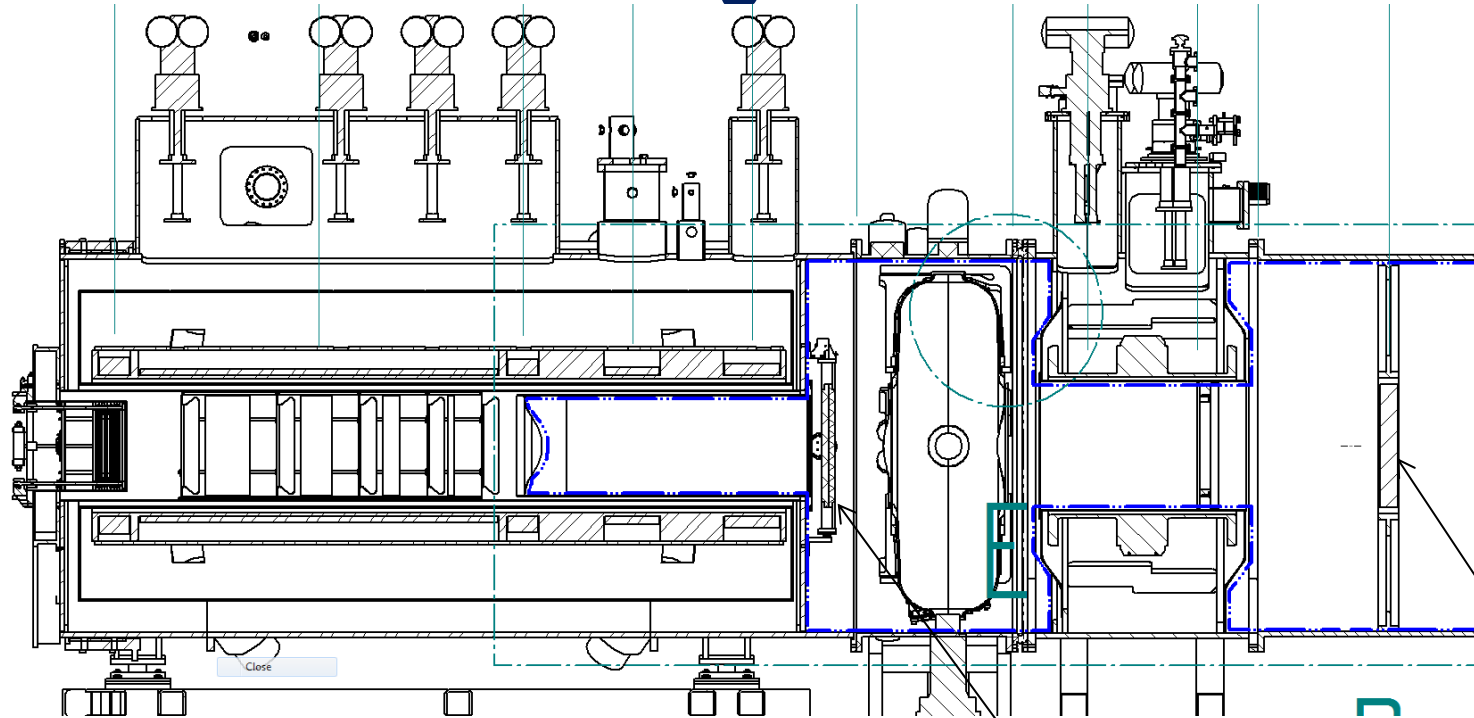
Cooling Demonstration

- The schedule has been put together as a best guess with the information we have
- The main Phases of the project are
 - De-commission Step IV – remove PRY, magnets, PID, floor plates
 - Build up the RF amplifiers (parallel operation)
 - Install waveguides for RF positions
 - Re-install the floor plates
 - Install South PRY
 - Install all magnets, cavities and absorber volume
 - Install RF amplifiers into the hall
 - Install North PRY
 - Commission and operate
- Brainstorming is needed to look impartially at any options we have to ease the installation
 - RF waveguides – do they need to go under the floor? Can they go straight across?
 - Rolling platforms – do they need to roll? Can they be a solid fix?
 - Keep the upstream solenoid cold in the hall? – saving 15 training quenches - £40k and 2-3weeks
 - Keep the downstream solenoid cold in R9? – saving 15 training quenches - £40k and 2-3weeks

 - Weigh-up the benefits and risk and gain a plan



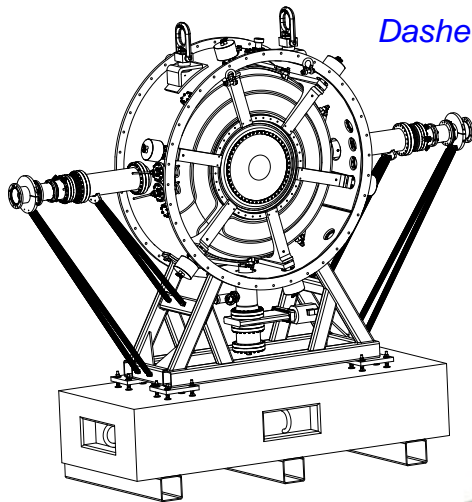
Cooling Demonstration



Dashed blue line is the vacuum envelope

Radiation Shutter

LiH



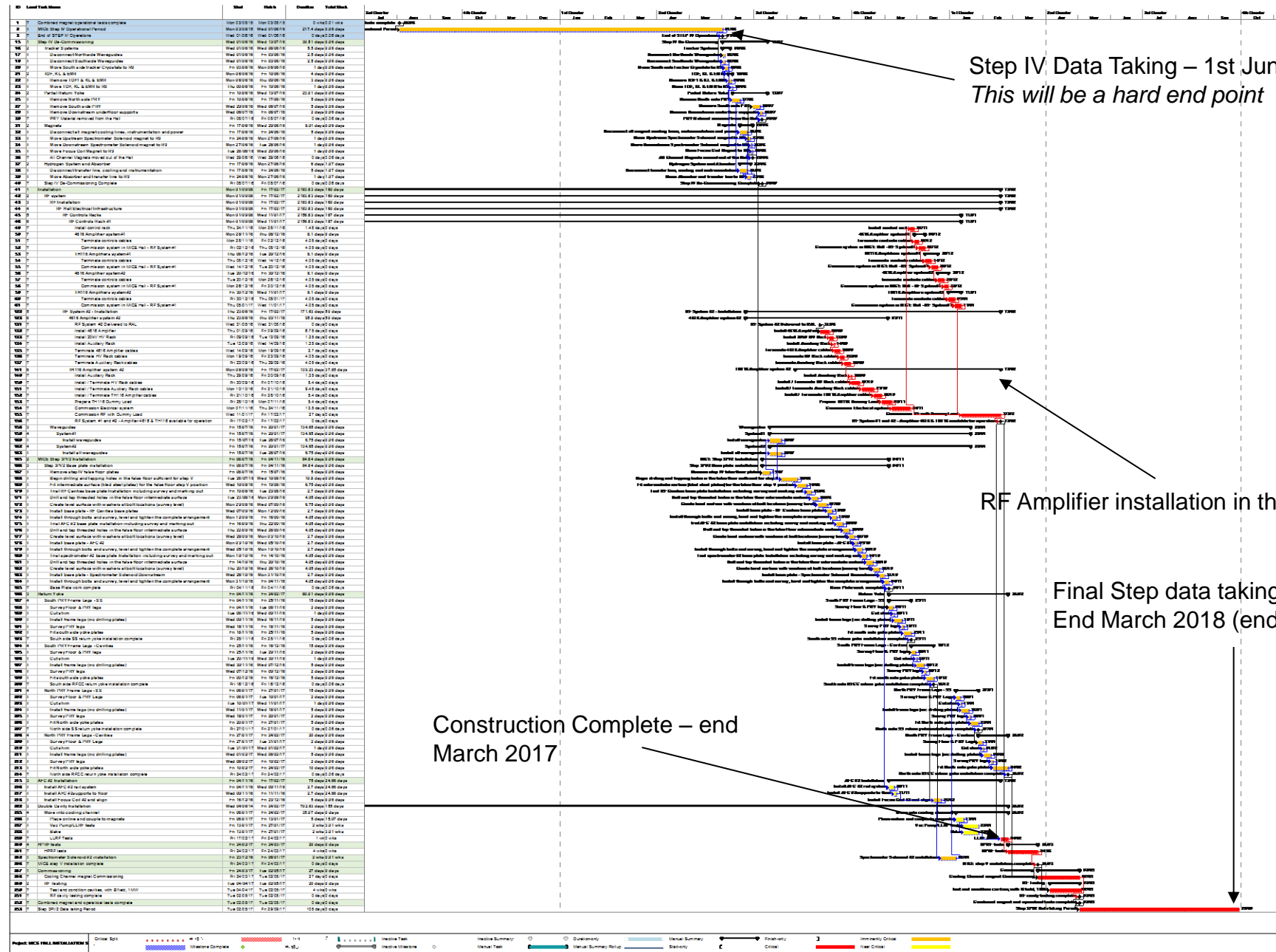
Schedule to completion – Critical and Near

Step IV Data Taking – 1st June 2016
This will be a hard end point

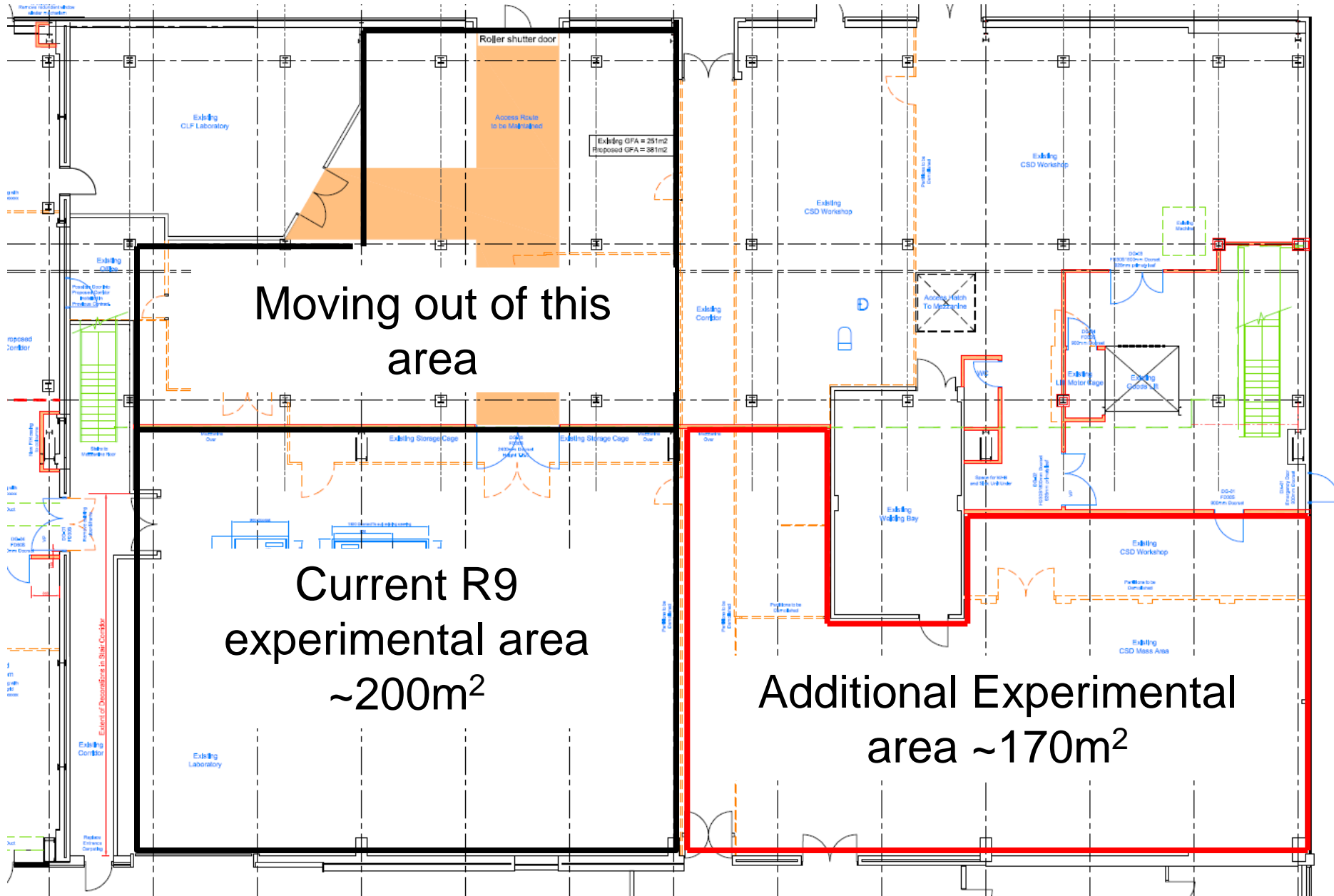
RF Amplifier installation in the hall

Final Step data taking period –
End March 2018 (end UK FY)

Construction Complete – end
March 2017



Working Space



Office Space and R9 Lab Space

- MICE Offices will be moving to the Atlas building
 - Date for move is 1st and 2nd December with boxes packed by 28th November.
 - R76 space will be taken back by ISIS but no plan at the moment so MICE area will remain
 - Computers and monitors should be moved by ourselves
 - Boxed items will be moved through Business support organisation
 - Network and phone lines will be transferred, additional lines added.
 - I will make a floor plan for where people will have a desk
 - Storage cupboards are available
-
- A little further to get to the MICE hall
 - Bicycles will be arranged
 - Maybe even a golf cart
 - Open plan office
 - Meeting rooms and breakout available
 - Right next to Ridgeway
 - Parking next to the building



Office Space



Office Space



Ridgeway

Main Gate

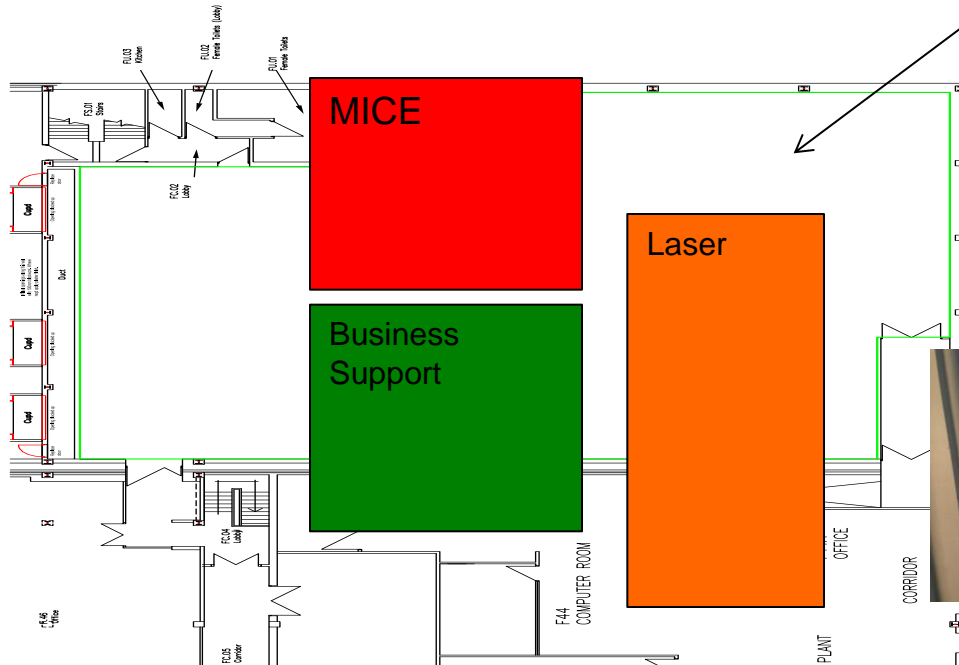
Google

Atlas

Research Comp at Harwell

Office Space

Move from R1 to R26 1st and 2nd December



New Kitchen

Dates:-

- MICE move in 1st-2nd December
- Laser move out end of January 15
- Business Support move out mid January 15

Full use of the area from February 15



- When other groups have moved MICE, populate the Green and Orange areas
- The red area would become a large meeting space for collaboration meetings
- Two 16 person meeting rooms available for booking within the same building
- Small breakout room also available
- Costa Coffee in the Electron building

