MICE - INFRASTRUCTURE

MICO meeting 7th February 2008 Tim Hayler

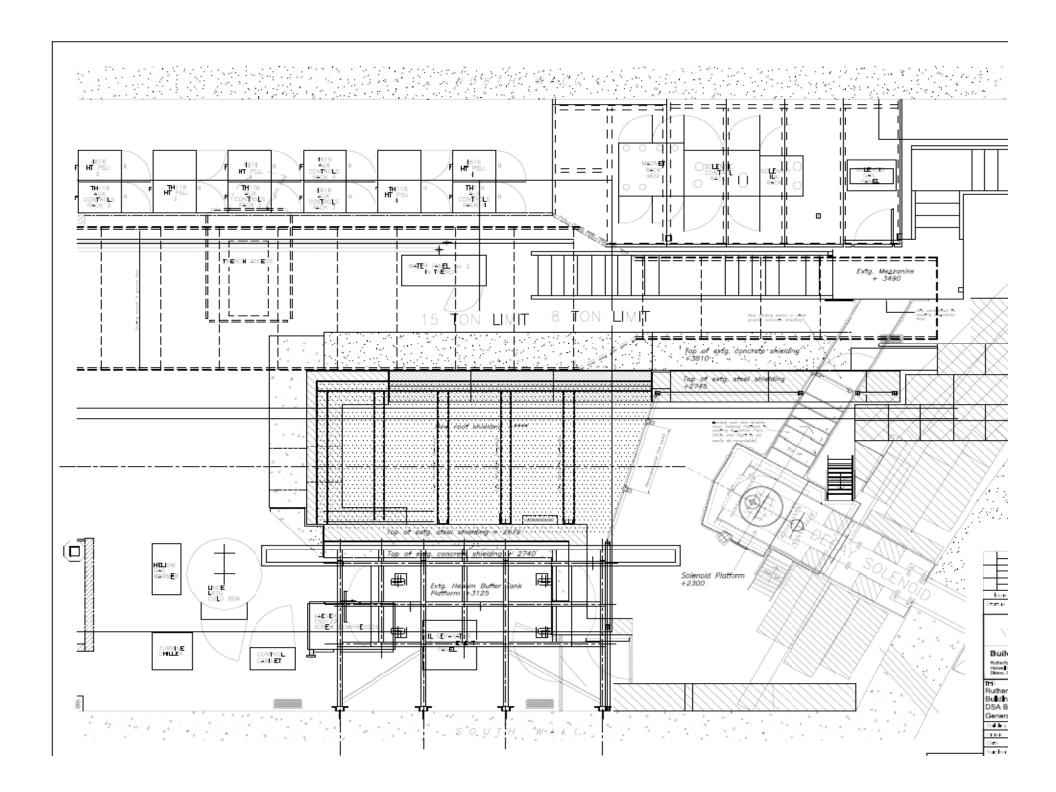
Infrastructure list

- PPS fence, roof and fire escape in the DSA
- RF project False floor
- Removing Concrete Ramp
- South magnetic shield wall
- North magnetic shield wall
- Air conditioning
- Rolling platforms
- Hydrogen system
- Mice hall roof
- Vacuum
- Compressed air
- New hall door

PPS in the DSA

- Provisional design review for the fence, roof and fire escape held on 15th February.
- Work carried out in the May shutdown.

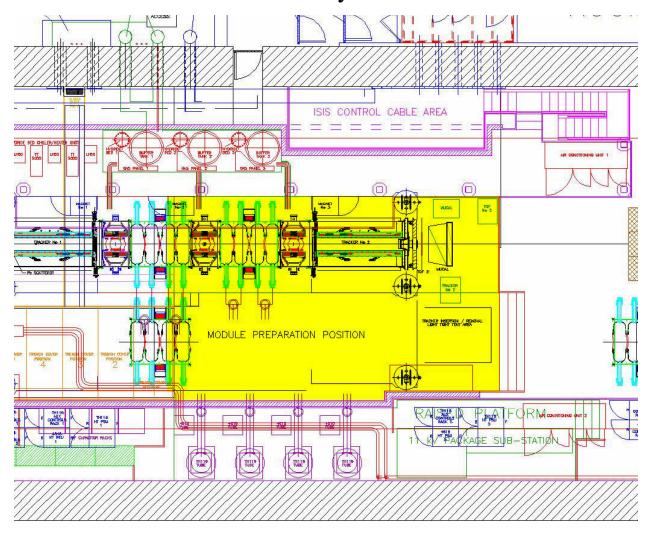
Basic layout drawing shown at http://hep04.phys.iit.edu/cooldemo/tb/MICE-Drawings/2.1-MICE-Hall-and-infrastructure/PPS-personal-protection-system/



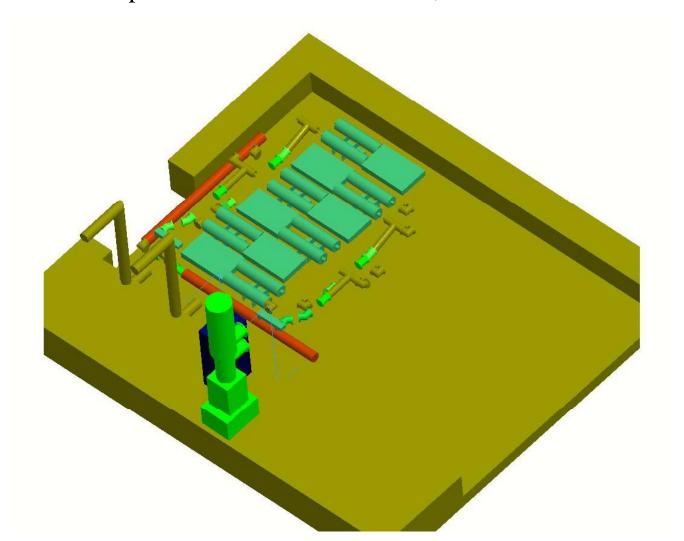
RF Project and the false floor

- Need to decouple the RF project from the false floor.
- A layout of the RF components under the false floor, from the amplifiers to the cavities, shows there is enough space but with little head room.
- False floor provisional design 15th Feb.

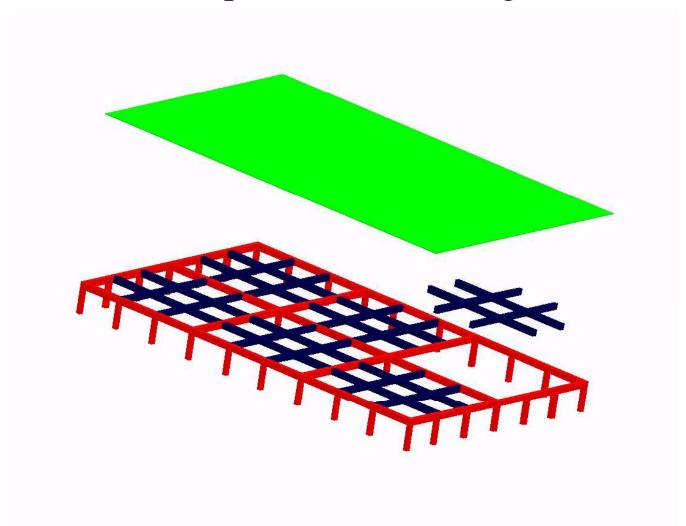
Area taken by false floor



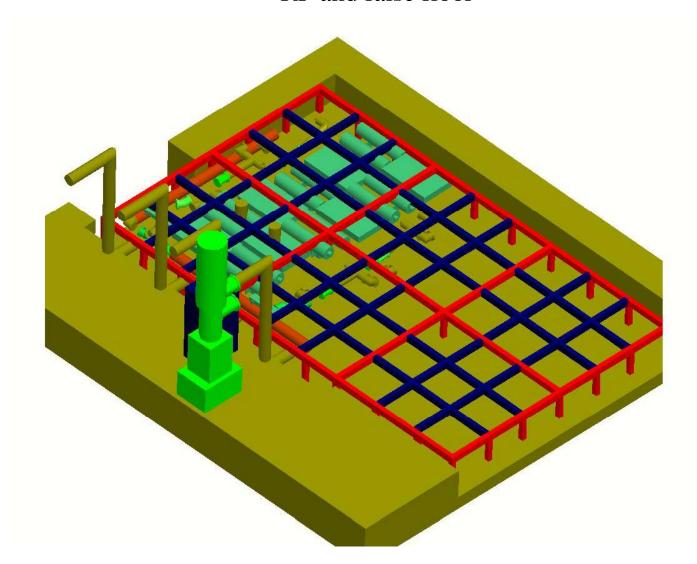
RF components under the false floor, feeds four cavities.



Simple false floor design



RF and false floor



Removal of the concrete ramp, more room for the RF components

- Representation of MICE beam line and the concrete area to be removed laid out in the hall (10th Feb).
- Contractors need 4 weeks to excavate, start work on the 18th Feb.
- Area tented to prevent dust.
- Need water supply and 32 amp 3 phase supply.
- Need to move test cap, under review.

South magnetic shield wall and mezzanine

- Design agreed.
- Andy producing installation drawings for the steel plate.
- Tenders back in for steel plates 6th Feb
- Work starts 10th March.
 - Alter existing stairway
 - Install support structure for magnetic shield wall
 - Install steel plates on support structure
 - Construct new south wall mezzanine
 - Painting and fire proofing

North magnetic shield wall and mezzanine

- Provisional design review 22nd Feb
- Depending on the capacity of the company, installation will be in parallel or series with the south wall.

Air conditioning

- Agreed AC layout
 - http://hep04.phys.iit.edu/cooldemo/tb/MICE-Drawings/2.1-MICE-Hall-and-infrastructure/2.1.2.5-Air-conditioning/
- Tender process started for the AC units, delivery expected before April.
- Install AC units and ducting.
- Install 10 fans on the roof to remove heat from units.
- Install pipe runs from units to fans on the roof.
- Electrical installation.
- Commission and test AC units.

Rolling platforms

- 1 and 7 tracker platforms out for manufacture, delivery 1st March.
- Design 2,3,4,5,6, ready 12th April
- Possible case for single tender
- Delivery 2,3,4,5,6 11th July

MICE hall roof

- Need a layout drawing of the roof
- Check the roofs structural rating, (more equipment on the roof)
- Fence between MICE roof and ISIS roof (1 or 1.8m)
- Fence around the entire perimeter or hand rails
- Permanent stairway access to roof, temporary scaffold or grass bank not good enough.