#### Introduction

#### Jason Tarrant – Integration Engineering

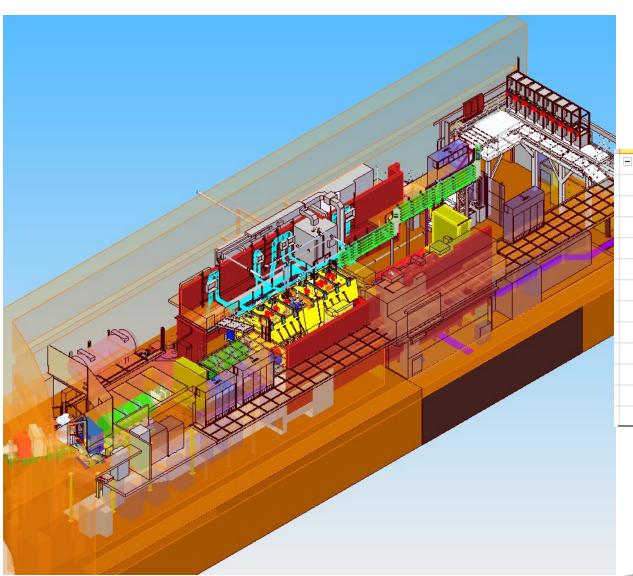
Will City

- Step IV Removal
- Cooling Demo Preparation
- Cooling Demo Installation



# Dismantle Step IV



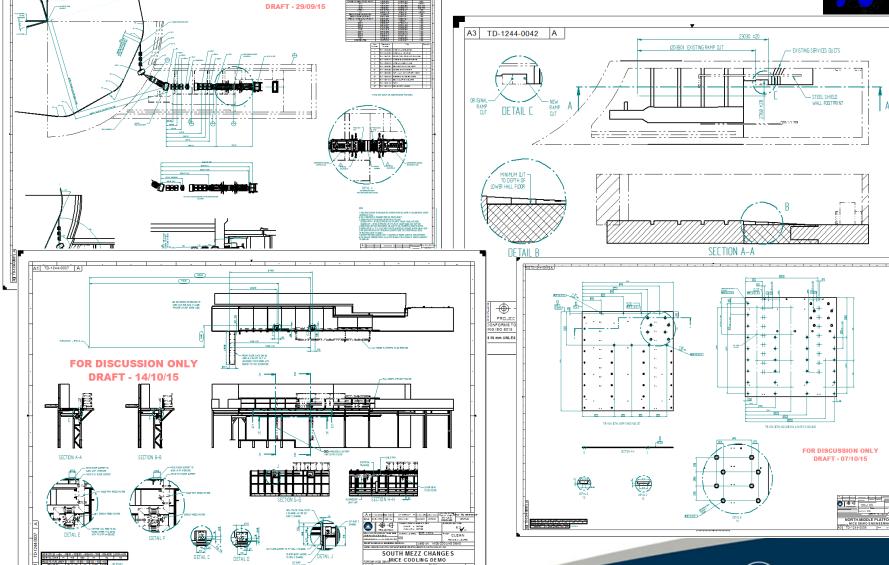


☐ Step IV Disassembly	
	End of Step IV Running
	ToF, KL, EMR Removal & Store
	Tracker Cryo Rem&Stor
	Power & Control Rem&Stor
	Vacuum Rem&Stor
	Compressor Hose Removal & Mgt
	North Mezz Access Rem&Stor
	PRY Downstrm Rem&Stor
	SSD Rem&Stor
	FC Rem& Stor
	Moving Bases Rem&Stor
	H2 System Rem&Stor

## Design

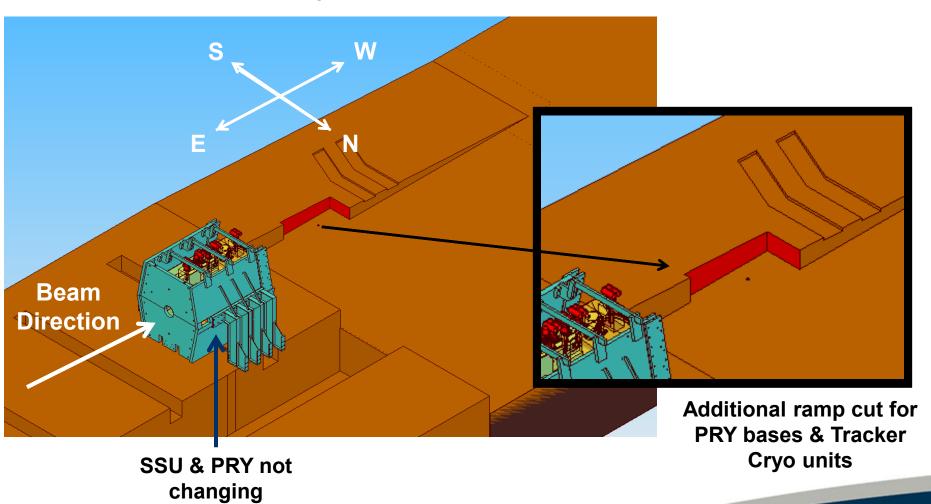
FOR DISCUSSION ONLY





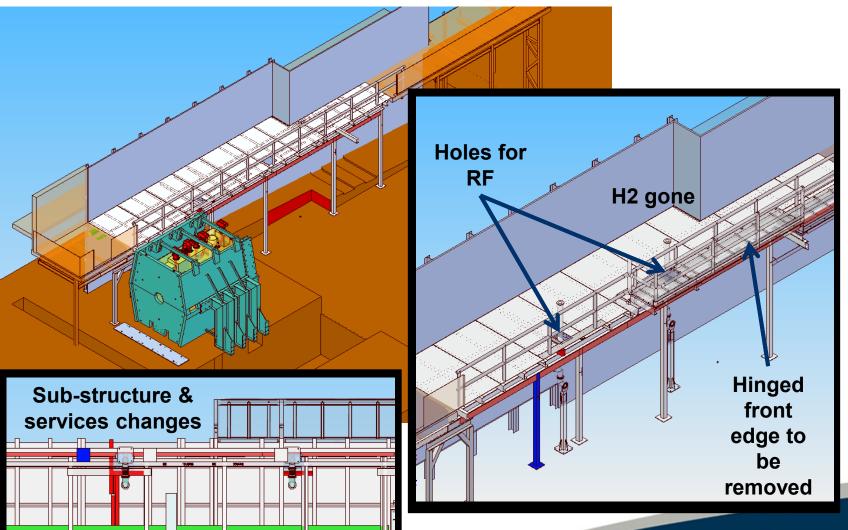
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Concrete ramp cutting



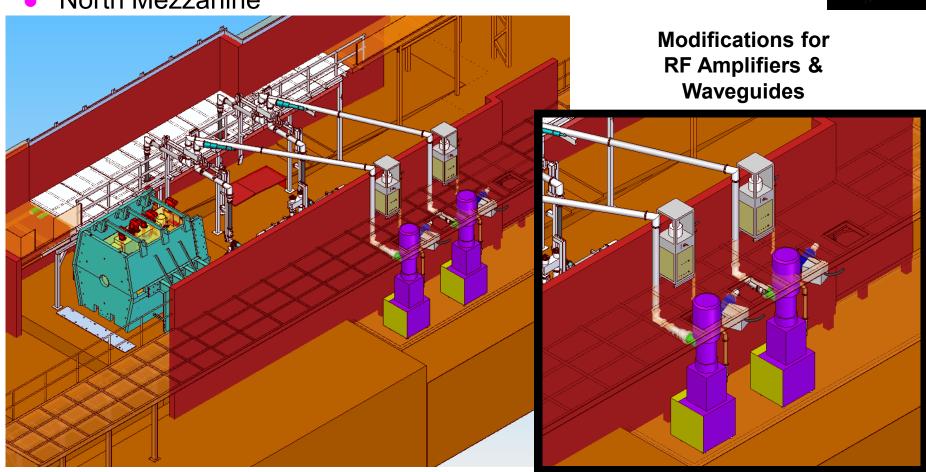


South Mezzanine Changes



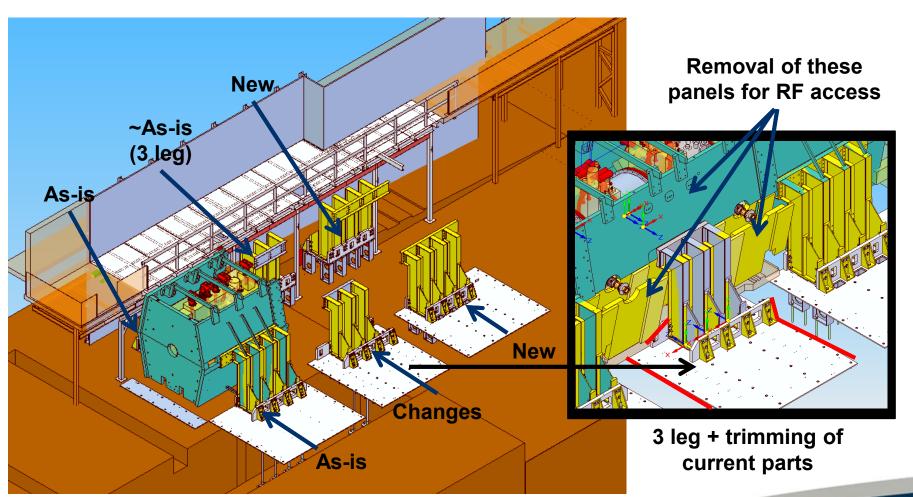


North Mezzanine



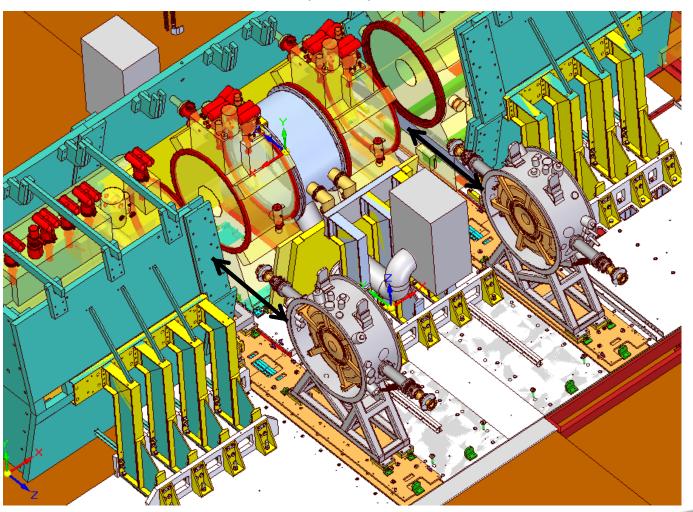
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PRY Bases



Partial Return Yoke (PRY) – RF Access



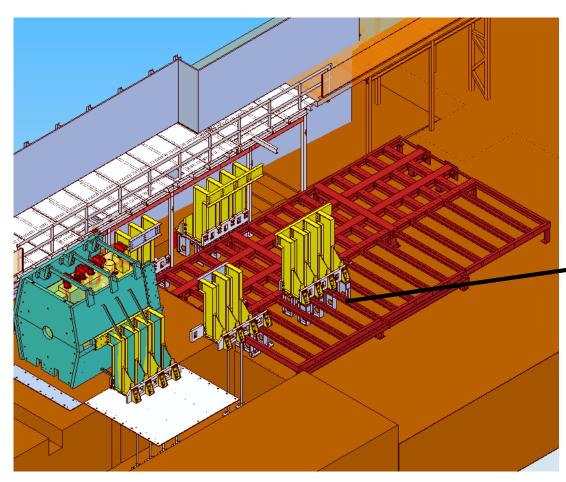


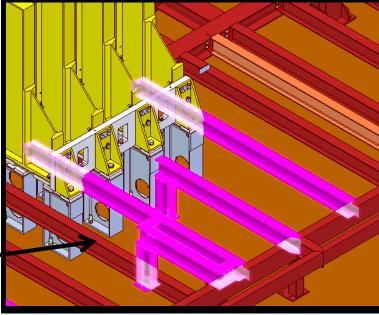
RF devices removed on moving platforms



False Floor & Sub Structure



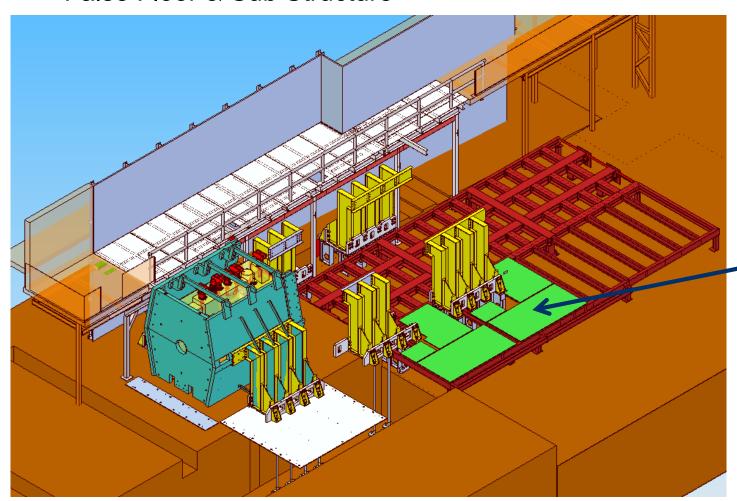




Sub floor supports to be changed for compatibility with PRY interfaces (& current underlying services in this area)

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False Floor & Sub Structure

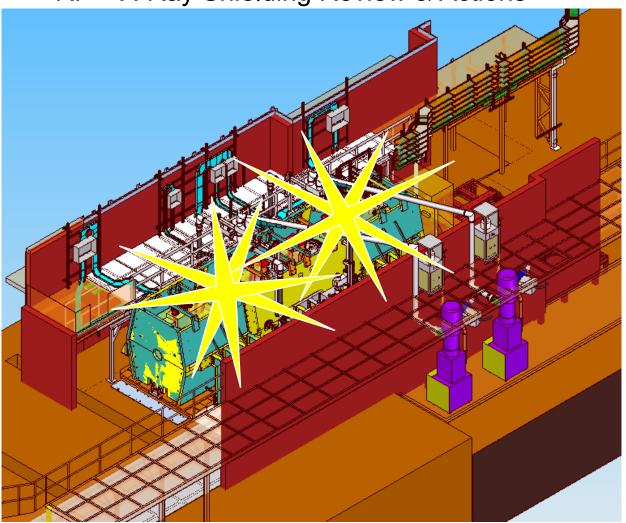


Sub floor plates, levelled & fixed



RF – X-Ray Shielding Review & Actions





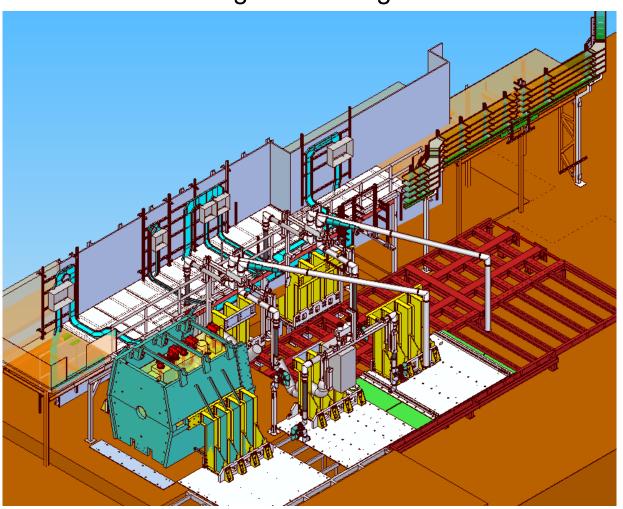
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RF Working Group:
M Keelan, T Stanley,
K Ronald, A Moss...
= Review of x-ray
shielding requirements

- Document
- Design
- Agree etc.



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Services management fixings



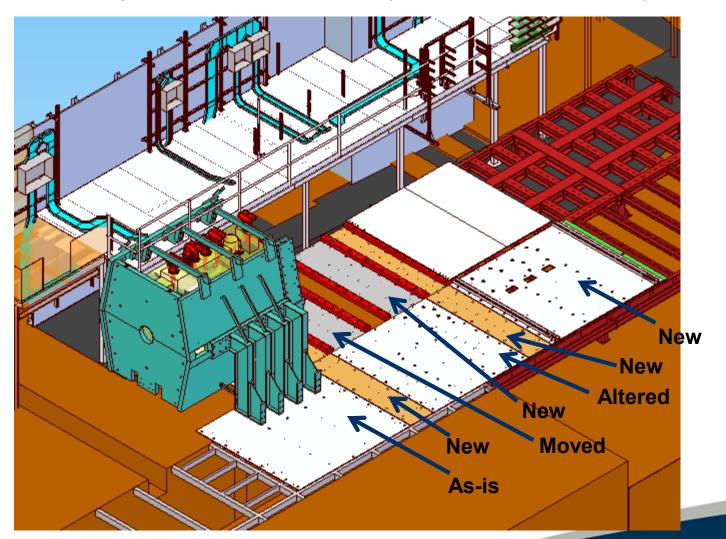
Preparations for services management for:

- Magnet power & instrumentation (DL)
- Compressor hoses (P Barclay)
- RF Waveguides (A Muir)
- Vacuum (M Tucker, P Barclay)
- Etc...



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Moving Platform Baseplates (G Stokes, N Collomb)





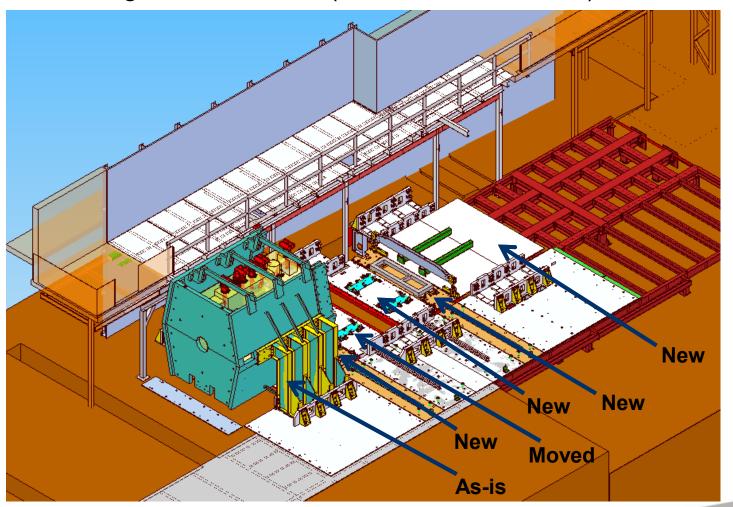
Deep Clean





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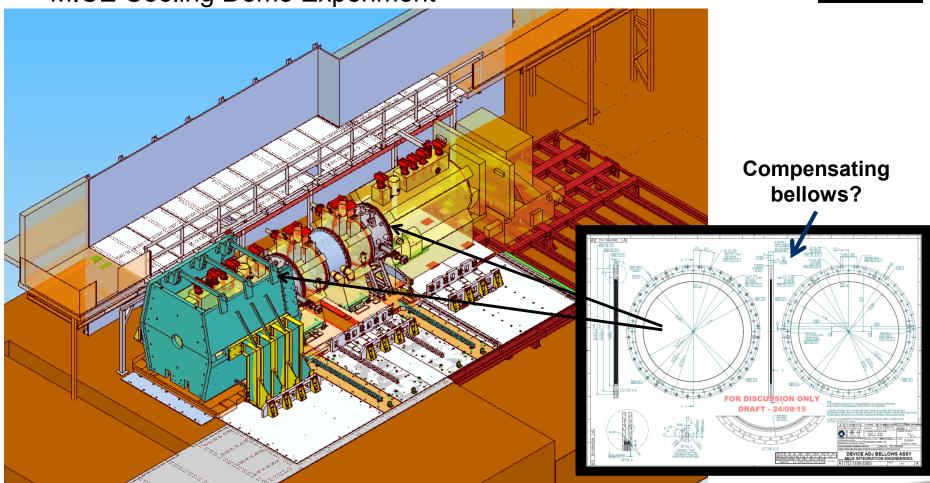
Moving Platform Install (G Stokes, N Collomb)





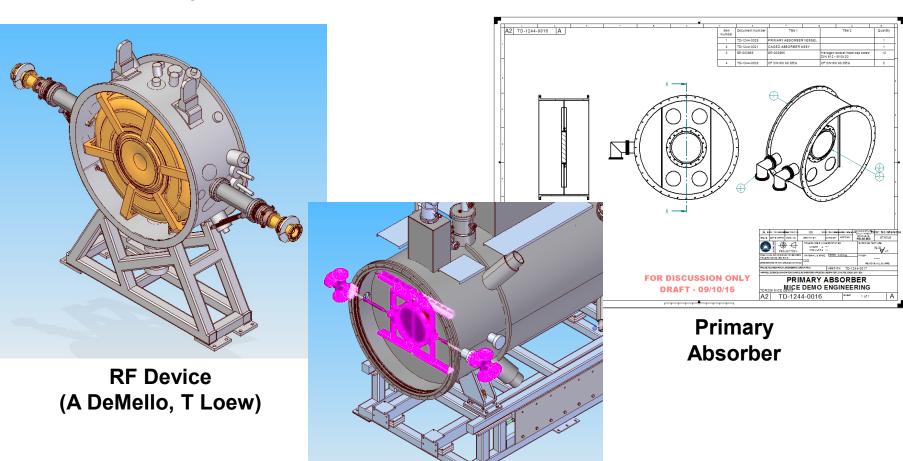


MICE Cooling Demo Experiment

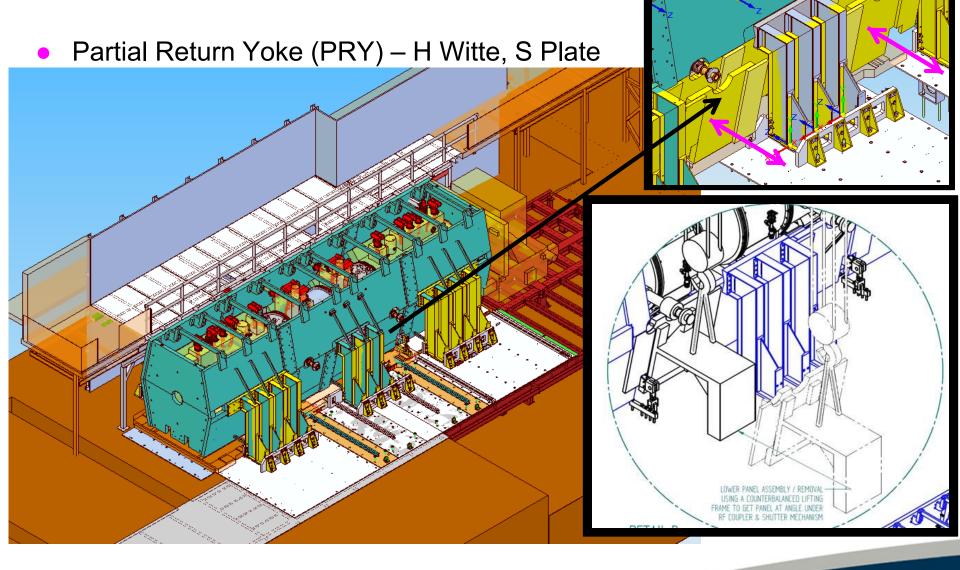




MICE Cooling Demo Experiment – New devices & components

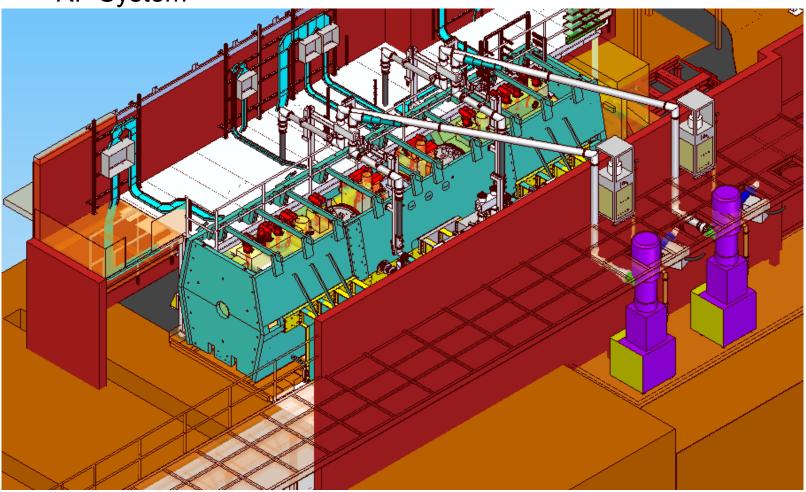


Secondary absorber (N Collomb)



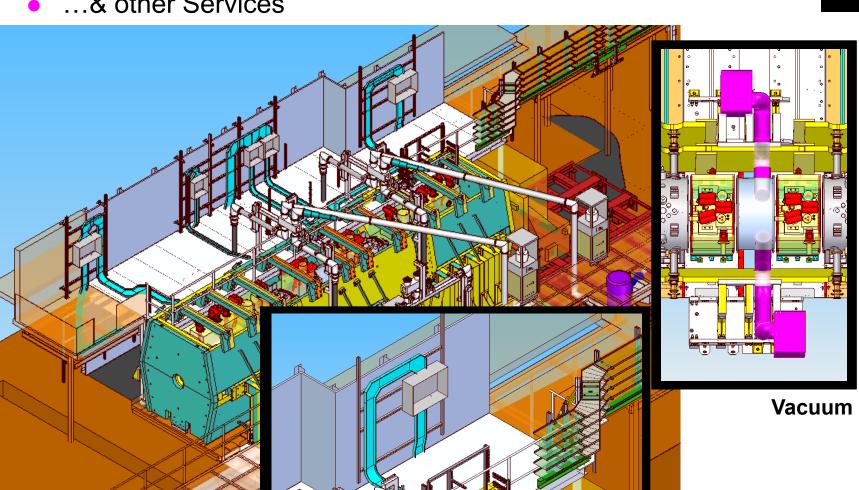
Mice

RF System





...& other Services

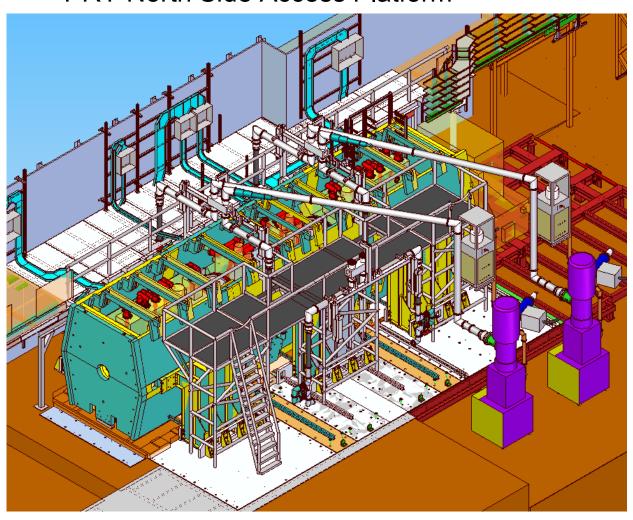


Magnet cables, compressors hoses etc.



PRY North Side Access Platform

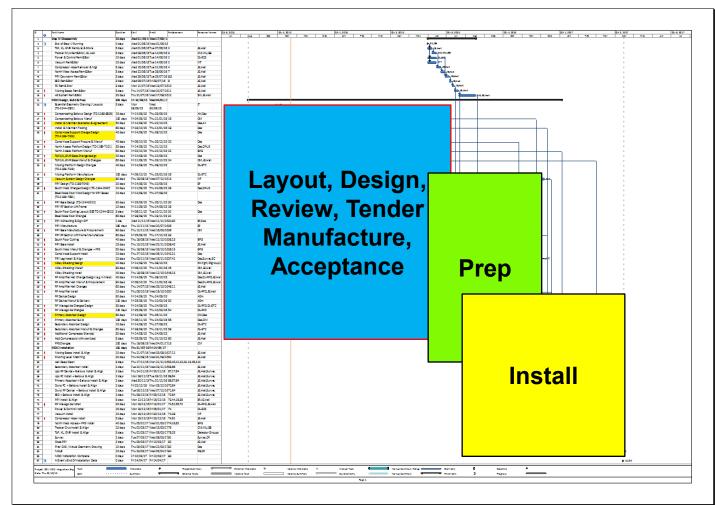




#### Schedule

# ANICE TO SERVICE

#### Schedule



Longer Lead Items e.g.

Primary
Absorber
Vessel (not standard m/c contractor = longer tender?)

PRY Bases (large no. of components ready to go from mid - 2016)

**Integration Engineering – Working Schedule** 



#### Conclusion

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- Engineering changes from Step IV to Cooling Demo
  - Majority of engineering changes based on existing Step IV systems e.g.:
    - Most services, PRY, PRY interfaces, Moving platforms ...
  - 'New' work mostly related to RF system, e.g.:
    - RF devices, RF waveguide routing, Amplifiers, X-Ray shielding...
  - A lot of work already gone into Cooling Demo engineering concepts & designs
    - All of the above 'owned' and design progressing well (most near or in detailing)
    - System interactions being managed (Integration Engineering)
  - Long lead items being identified for more immediate work, e.g.
    - Absorber vessel (outstanding vacuum interactions)
    - PRY interfaces (outstanding vacuum interactions & RF access)