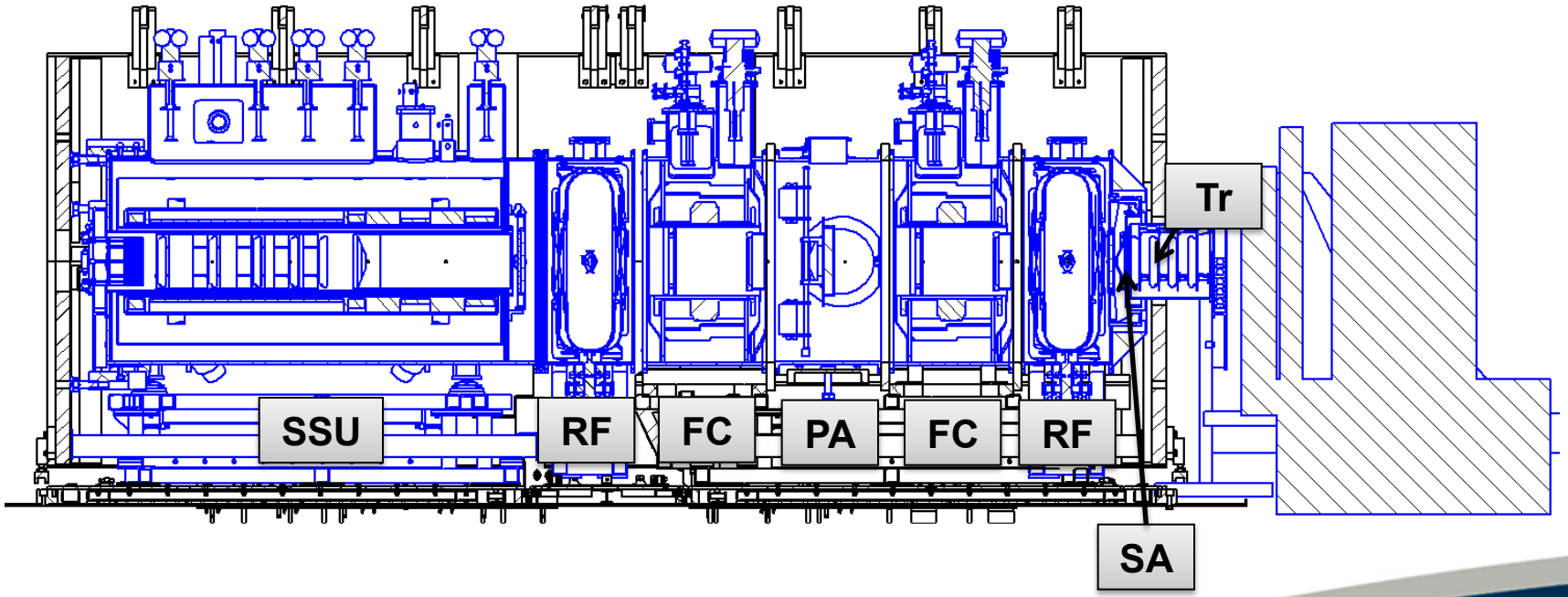
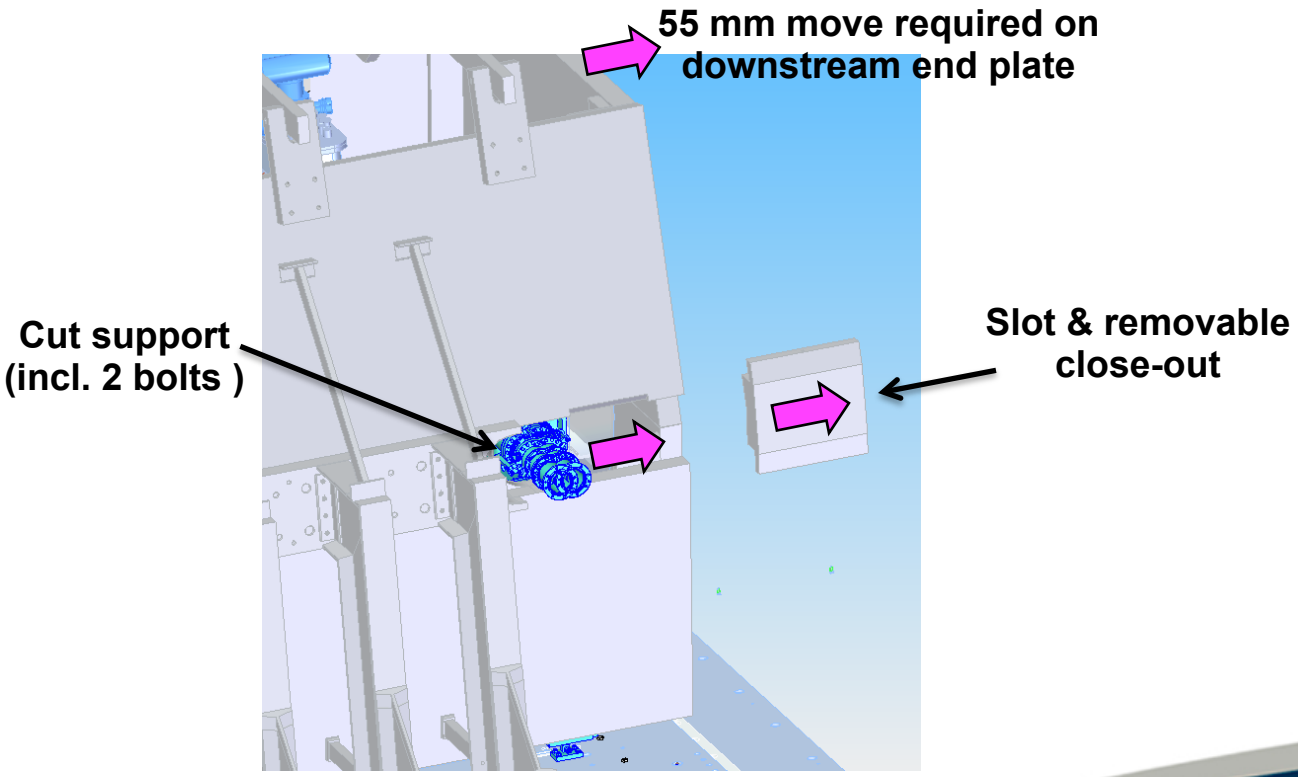
Demo Concept

- Initial Layout
  - Initial Concept Based On
    - SSU, RF, FC, Primary Absorber, FC, RF, Secondary Absorber, 4 Station Tracker
    - Use current PRY (slight modifications)



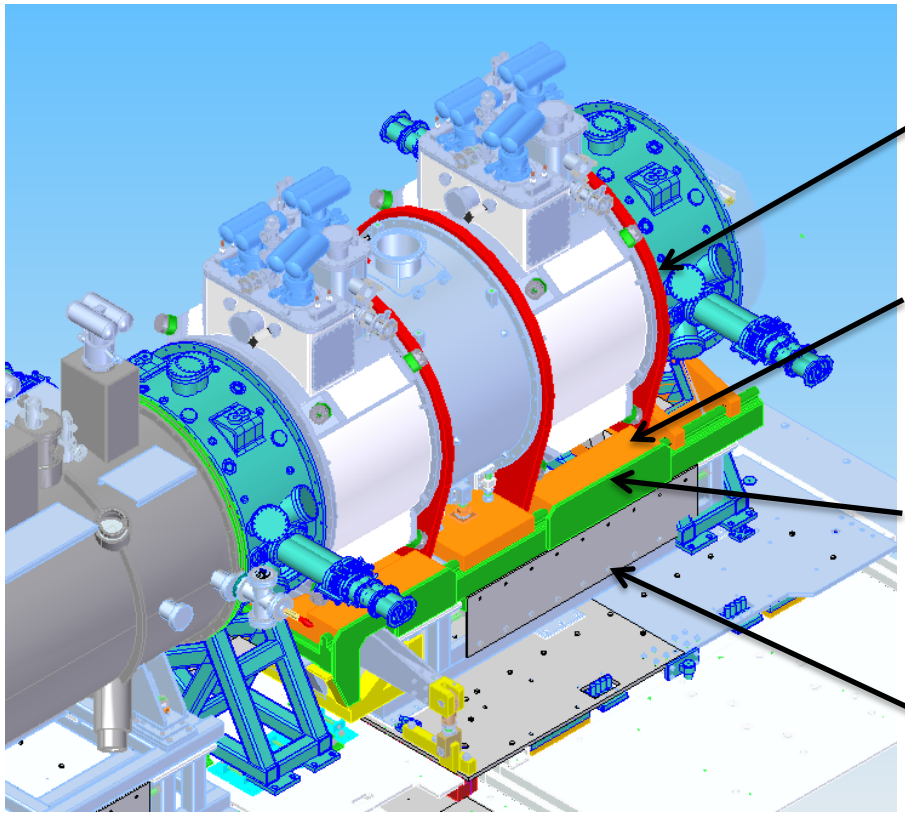
Demo Concept

- Initial Layout
  - PRY Changes
    - Move downstream endplate 55 mm
    - Slot middle & add removable close-out for RF coupler clearance & RF device removal



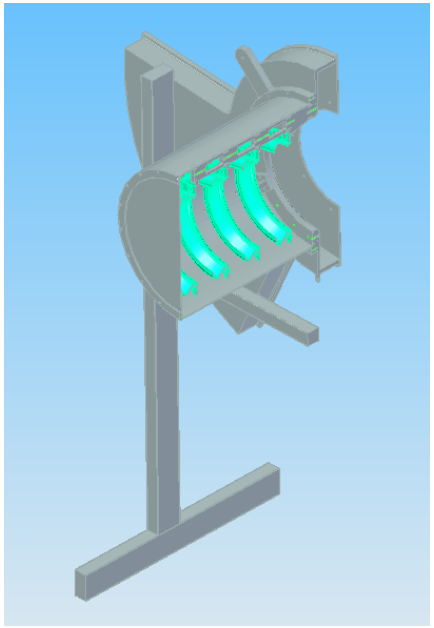
Demo Concept

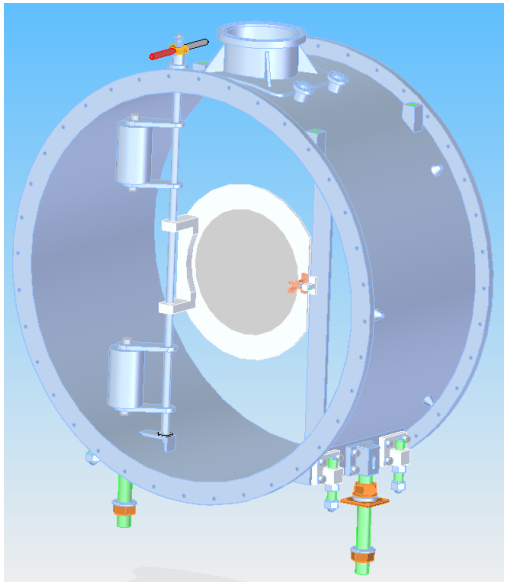
- Initial Layout
  - SS mount frame
    - Rail & carriage system for devices

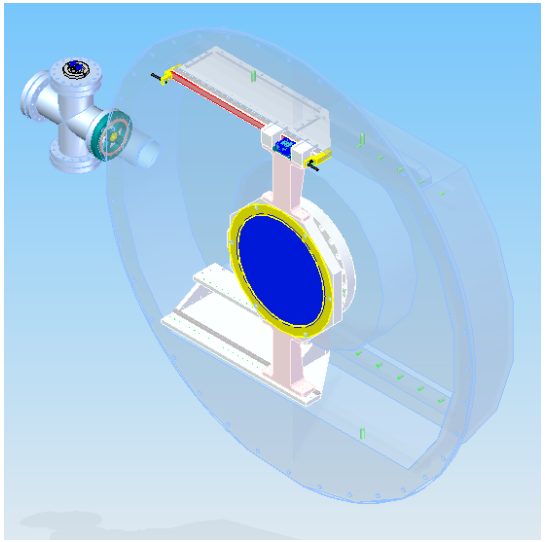


Demo Concept

- Initial Layout
  - New builds
    - 4 station tracker (G.Barber)
    - Primary absorber
    - Secondary absorber mount

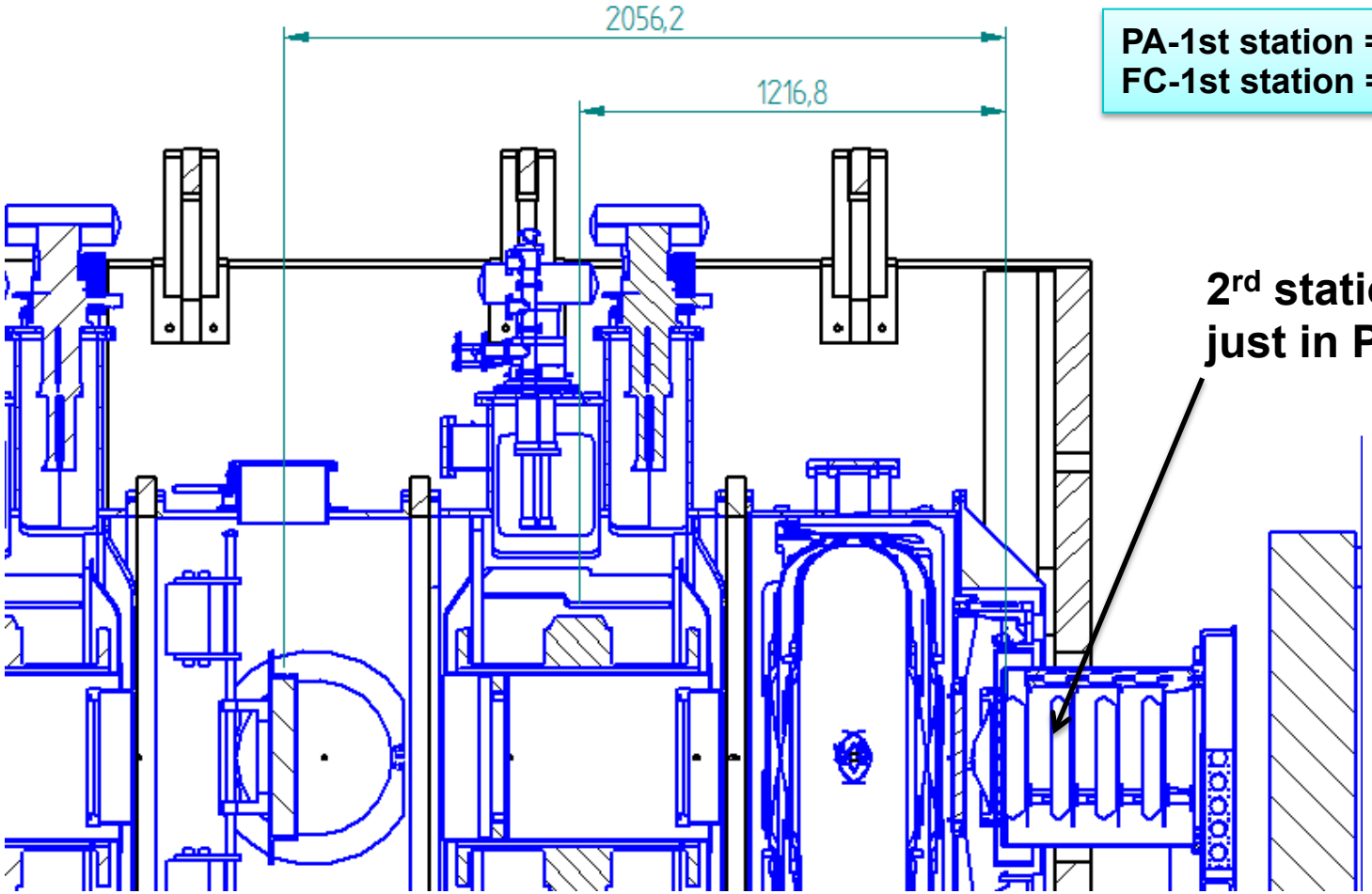






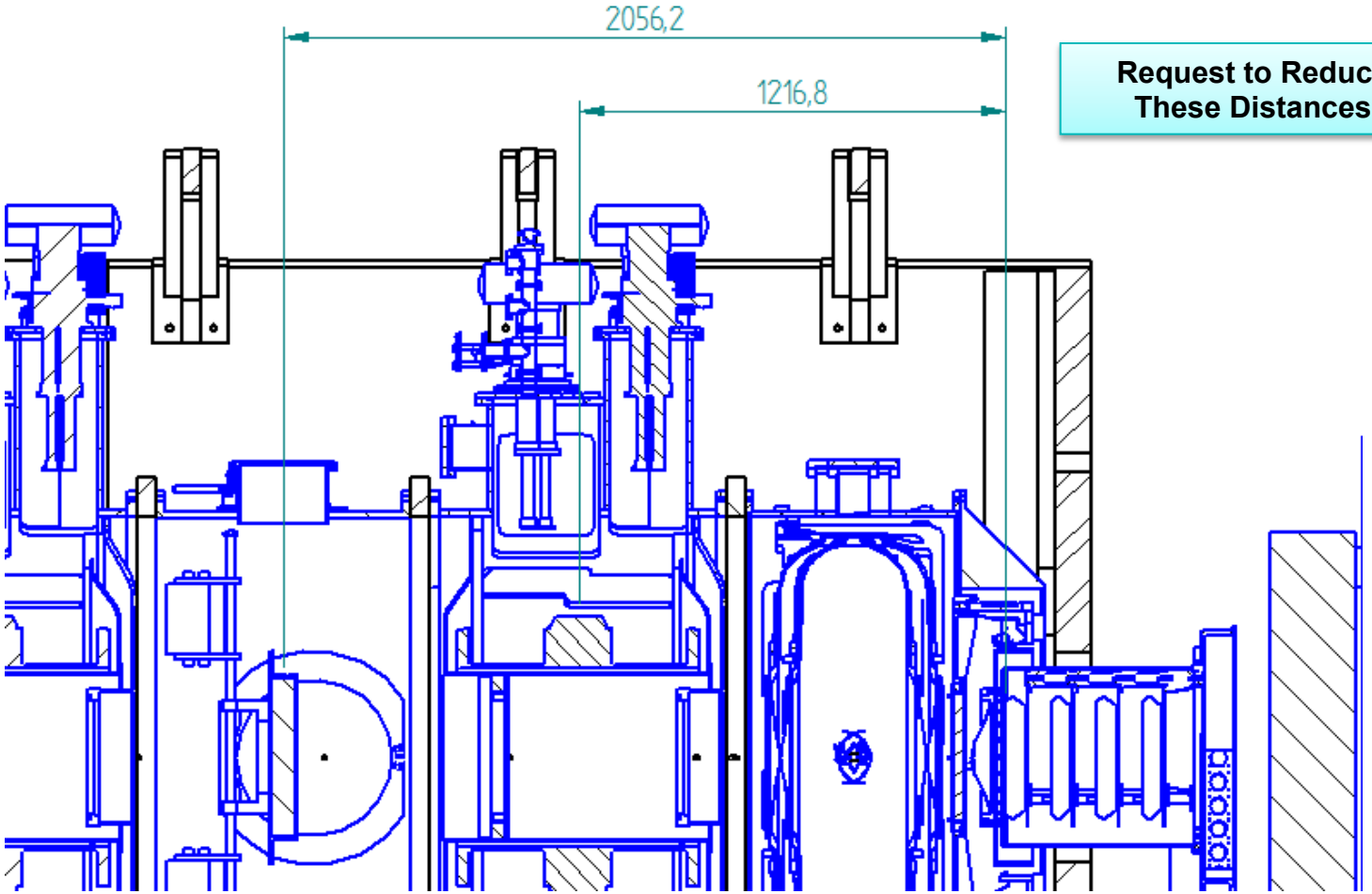
Demo Concept - Optimisation

- Tracker Position



Demo Concept - Optimisation

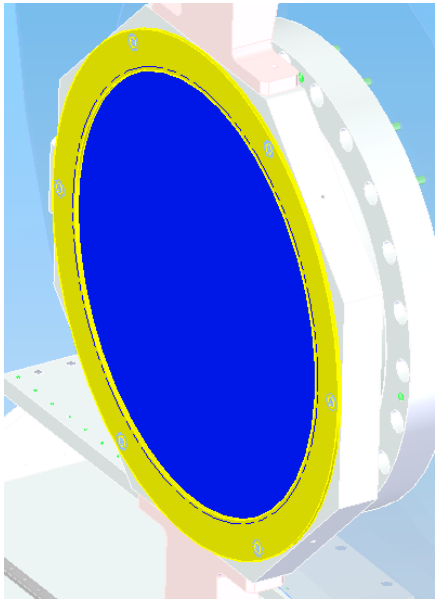
- Tracker Position

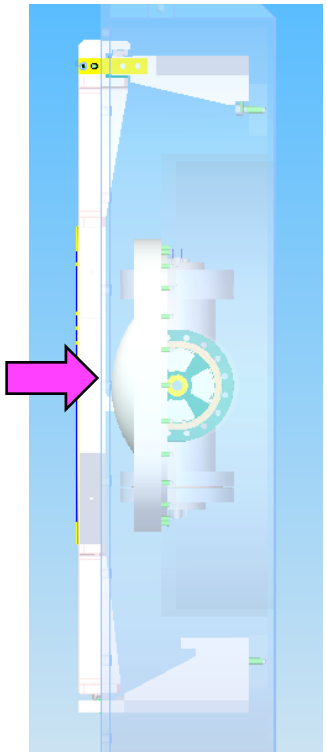


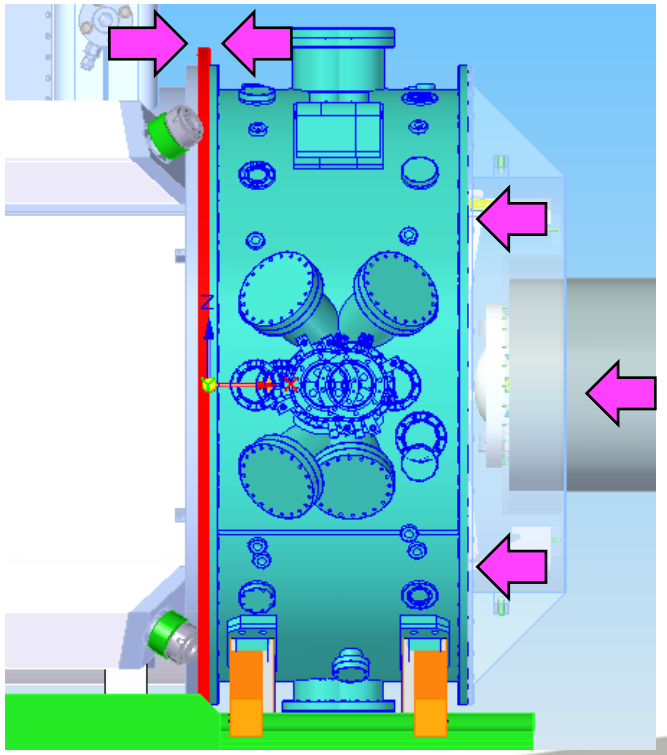
Request to Reduce These Distances

Demo Concept - Optimisation

- Possible Changes
  - Thin the secondary absorber assembly (countersunk screws)
  - Optimise the secondary absorber mount vessel & absorber position
  - Thin the connector between the FC & the RF
  - Move tracker in

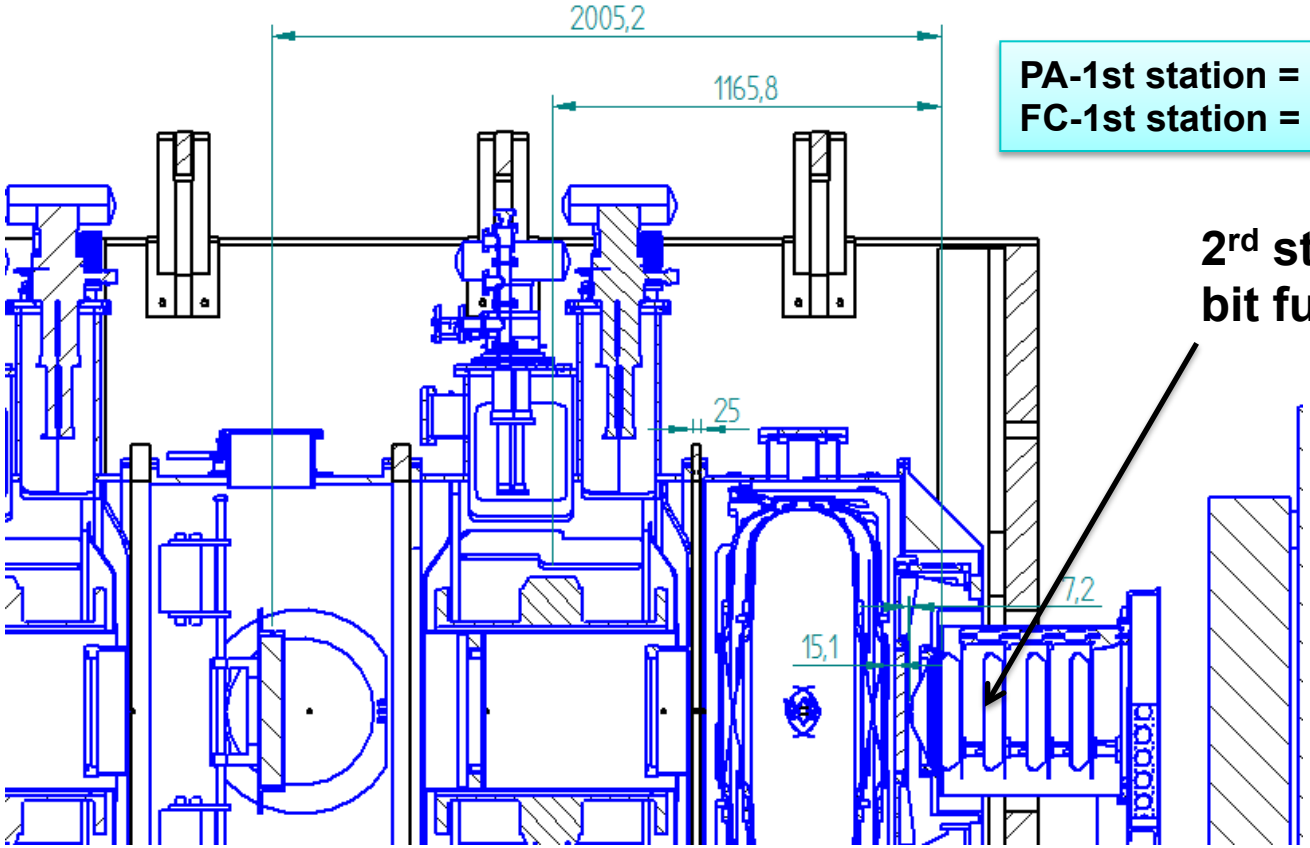






Demo Concept - Optimisation

- Possible Changes
  - Result of ~ small changes



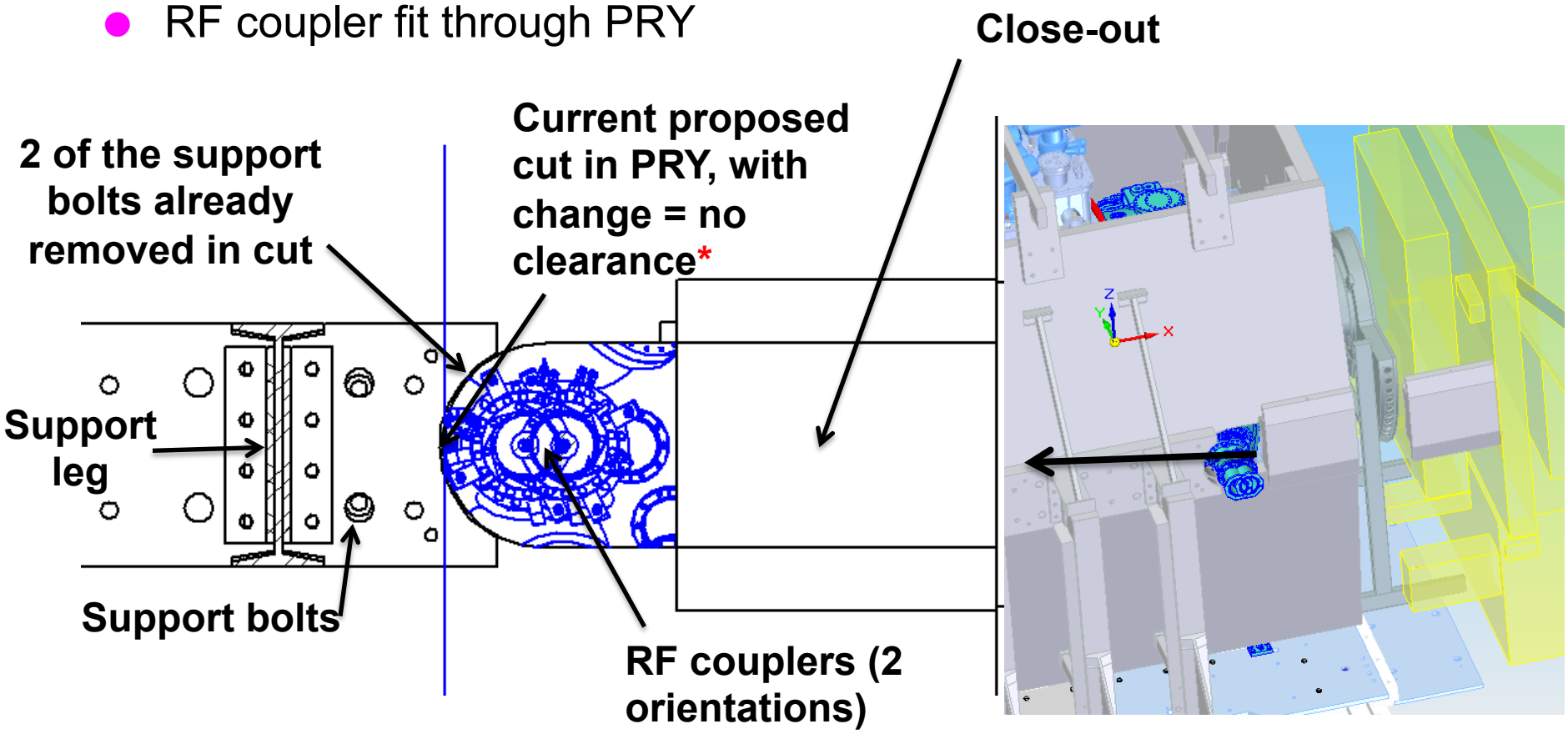
PA-1st station = 2005.2 mm (-51)
FC-1st station = 1165.8 mm (-51)

2rd station bit further in

Science & Technology Facilities Council

Demo Concept - Optimisation

- Possible Changes - Limitation
  - RF coupler fit through PRY



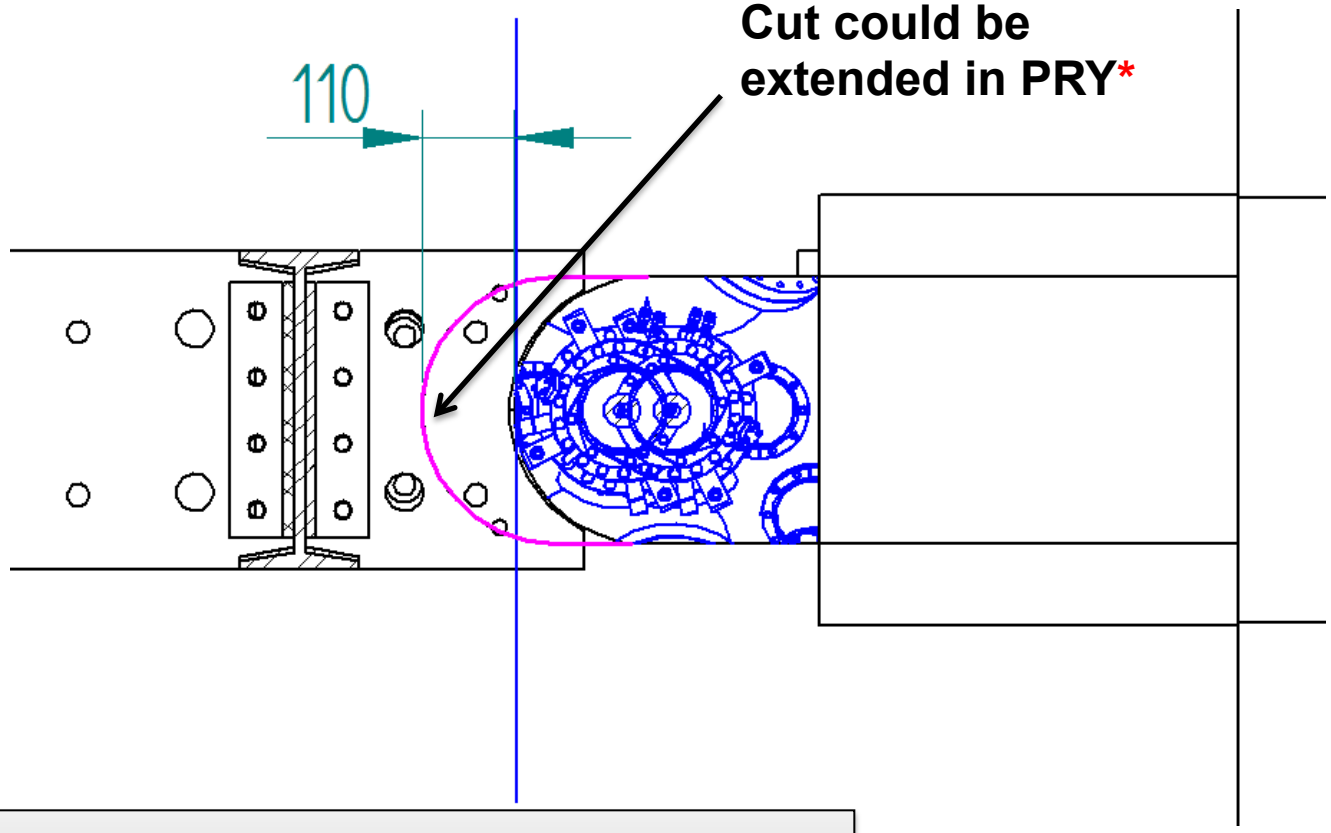
This would need a small amount extra taken from the cut & the infill piece extended

***Current cut to be approved** (S Plate)

Science & Technology Facilities Council

Demo Concept - Optimisation

- Possible Changes - Limitation
  - Extend cut



Putting back in 30 mm clearance the RF device could be moved a further ~ 80 mm
***Subject to engineering approval** (S Plate)

Demo Concept - Optimisation

- Possible Changes – Moving FC