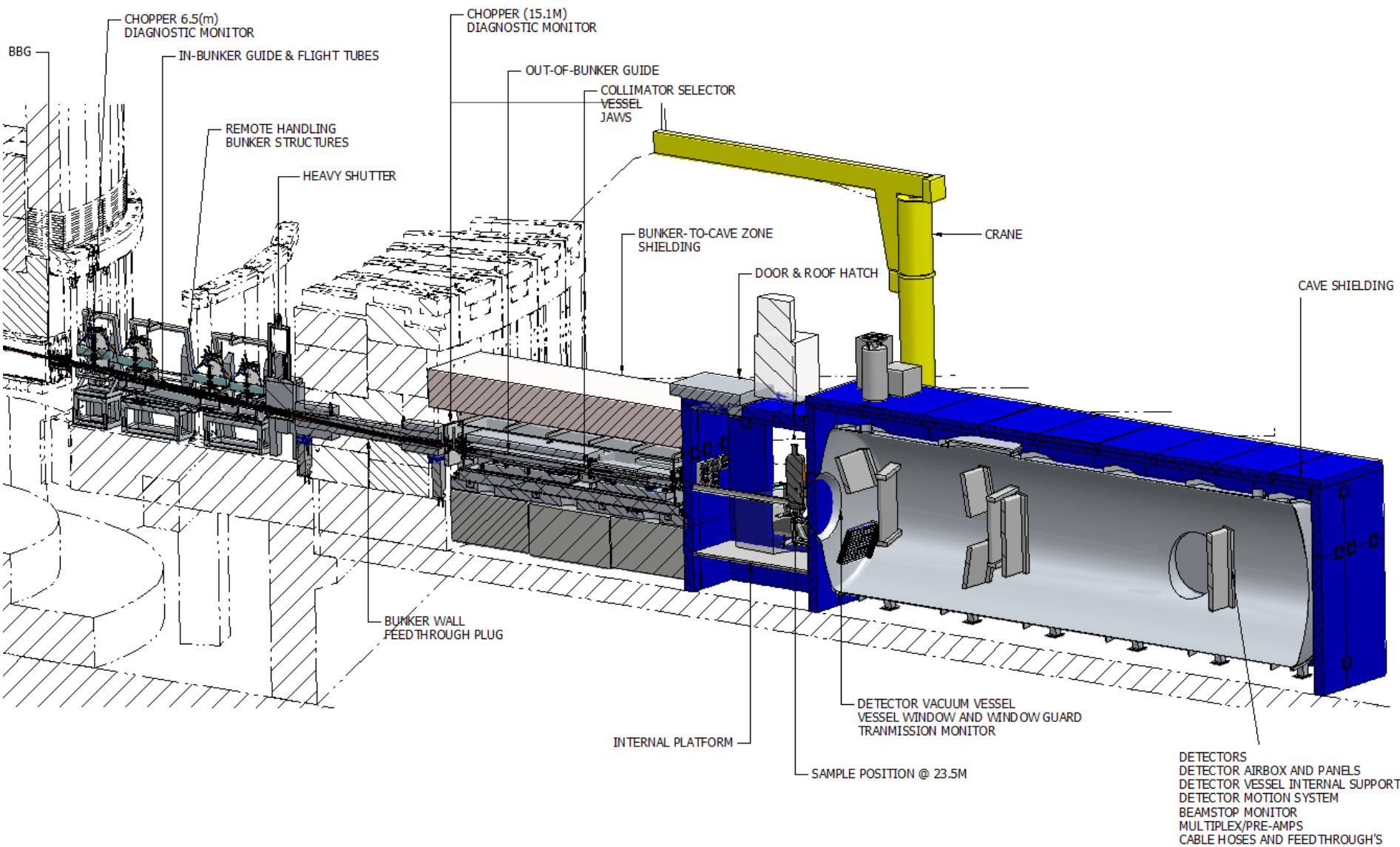




Instrument Class Update

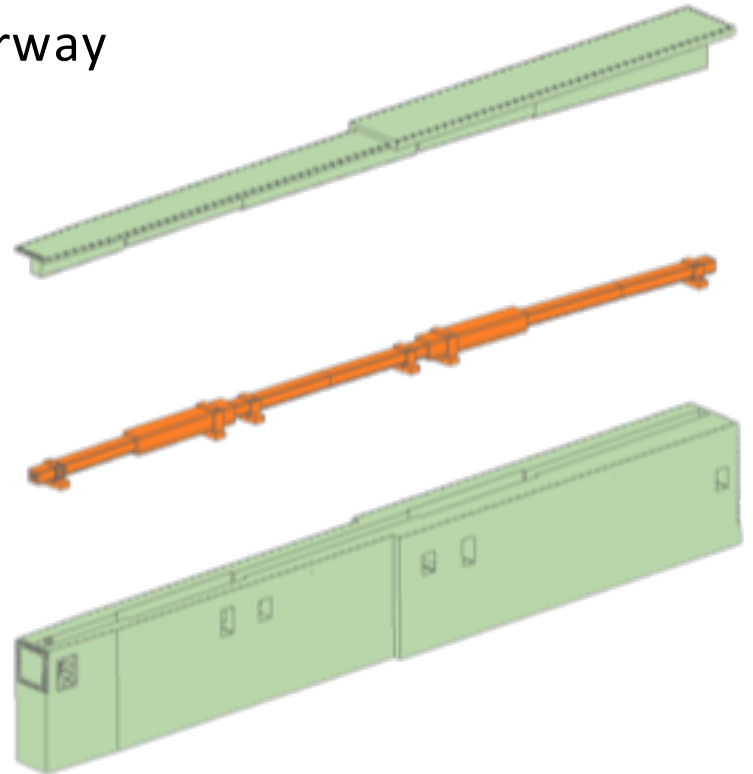
ESS-Loki

Loki Overview



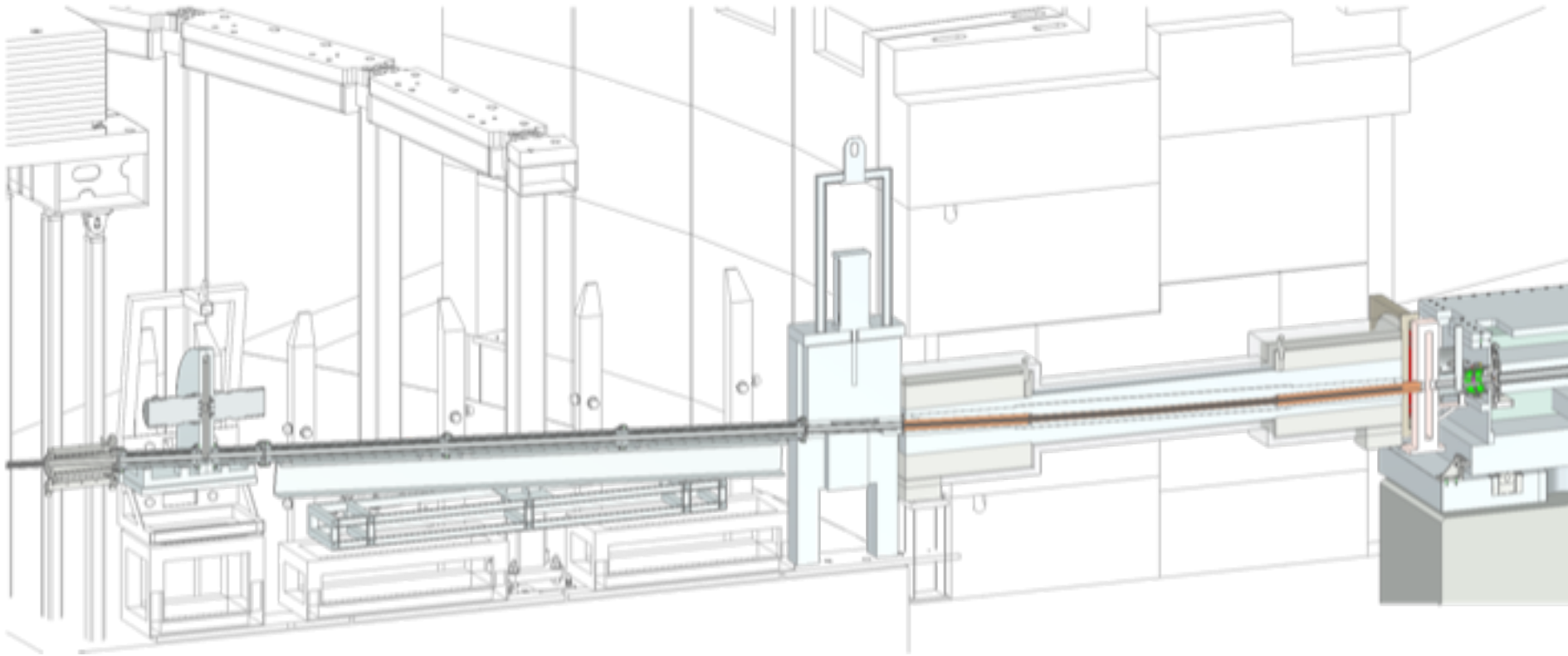
NBOA Status

- Order placed
- Kick-off meeting with Swiss Neutronics & ESS completed
 - Included stakeholders from ESS target group
- Substrate thicknesses updated to suit manufacturing requirements of NBOA & NBPI
- Design of alignment devices underway



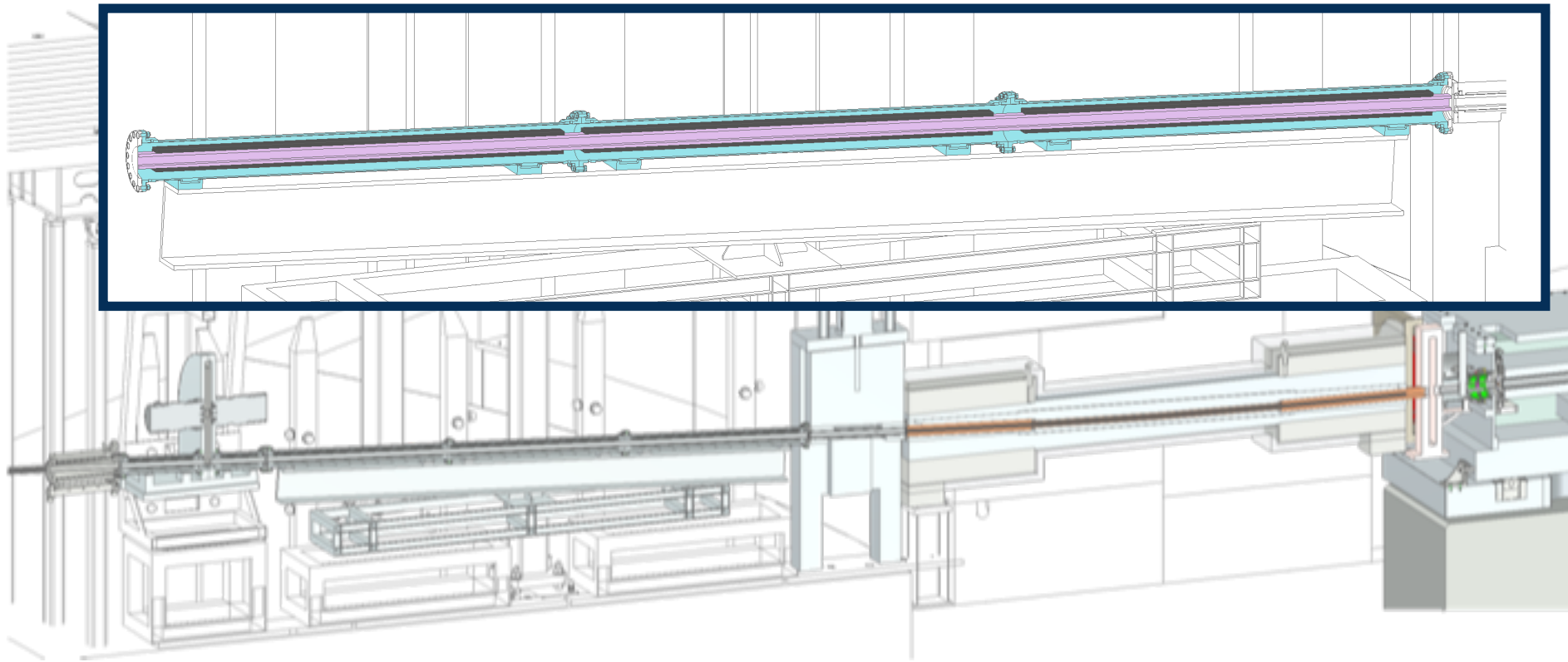
In-Bunker Guide

- ISIS CDR completed last week
- Specification now being written
- Tender before the end of the year (OJEU)

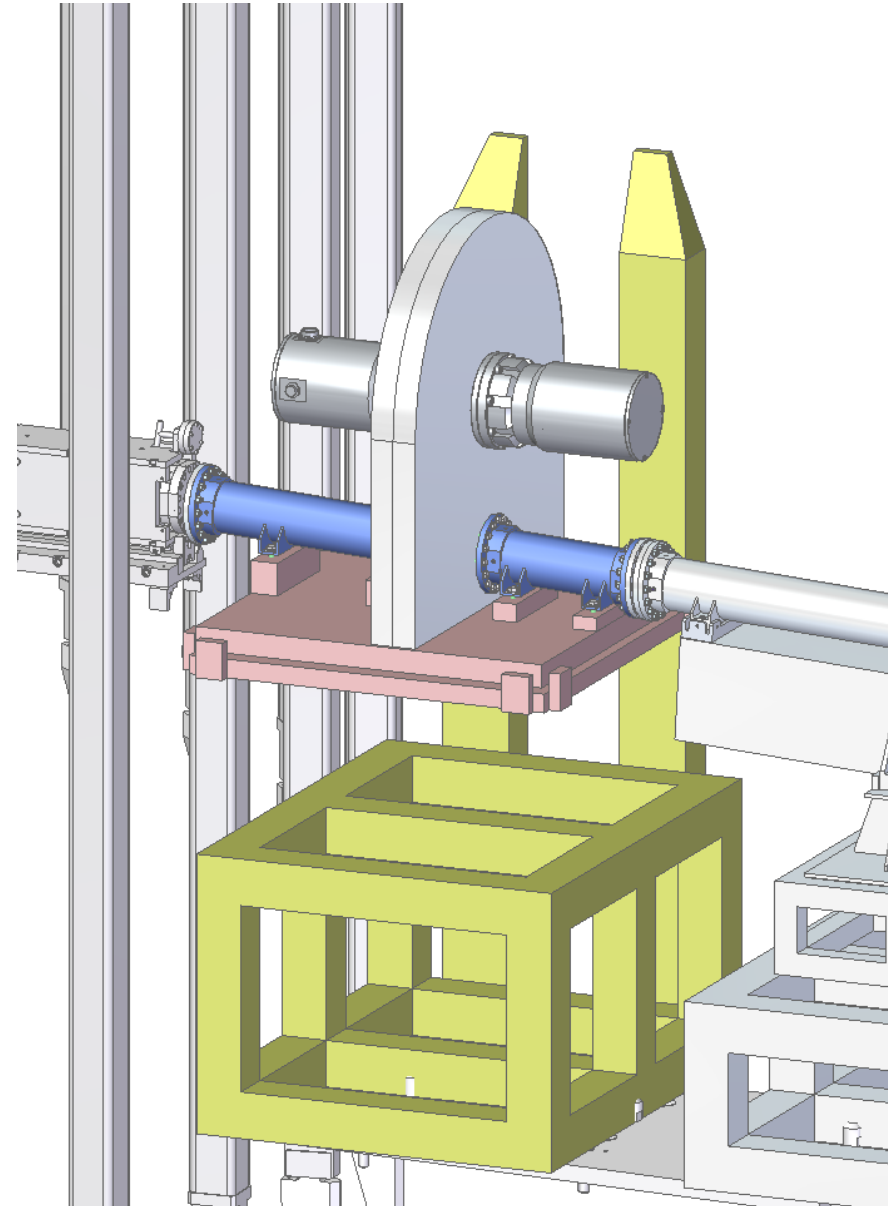


In-Bunker Guide

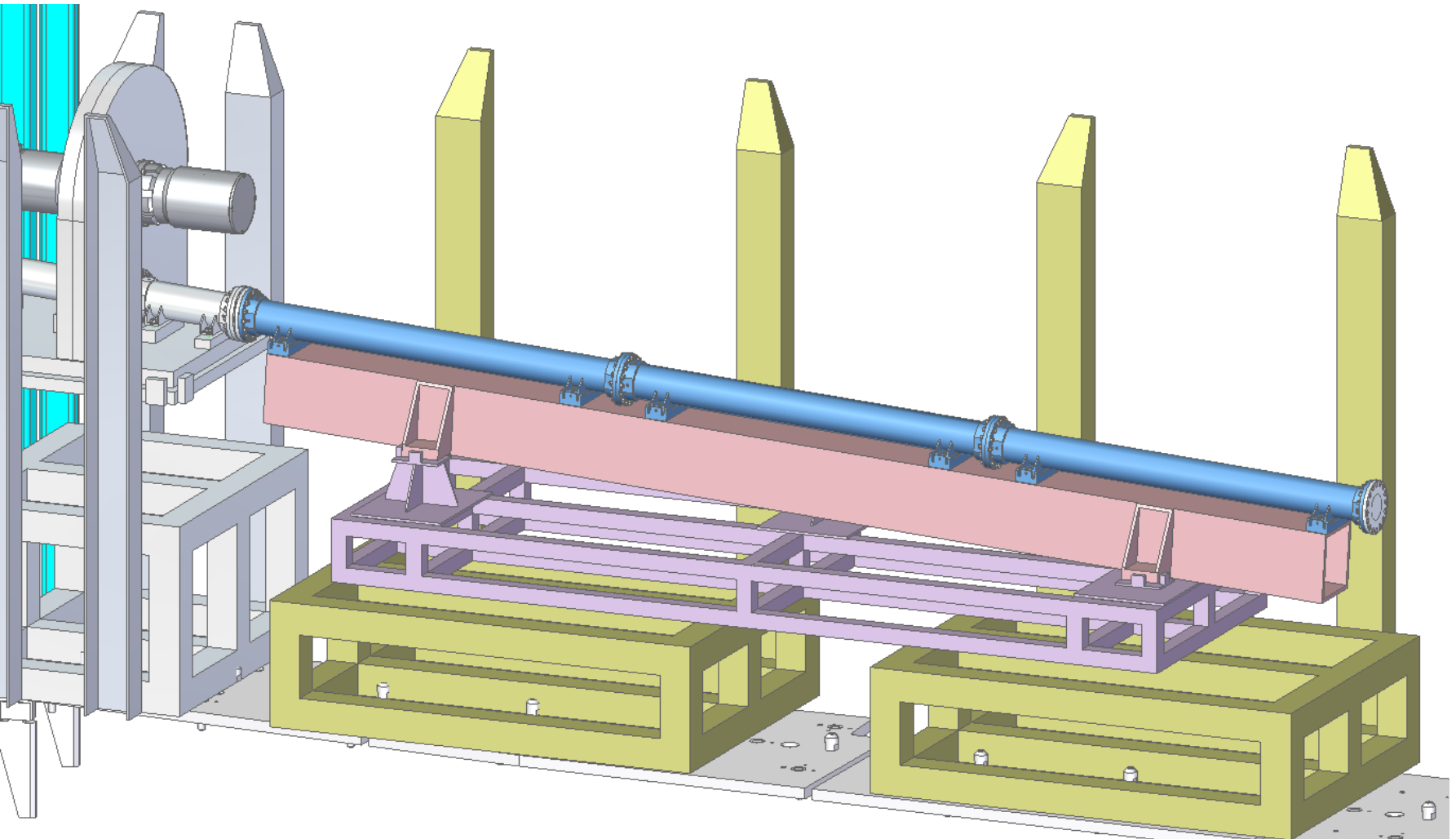
- Aluminium vacuum tube, seals & windows
- Aluminium guide substrate
- Boron Shroud
- Alignment devices to be designed by guide supplier
 - Material requirements from ESS not clear



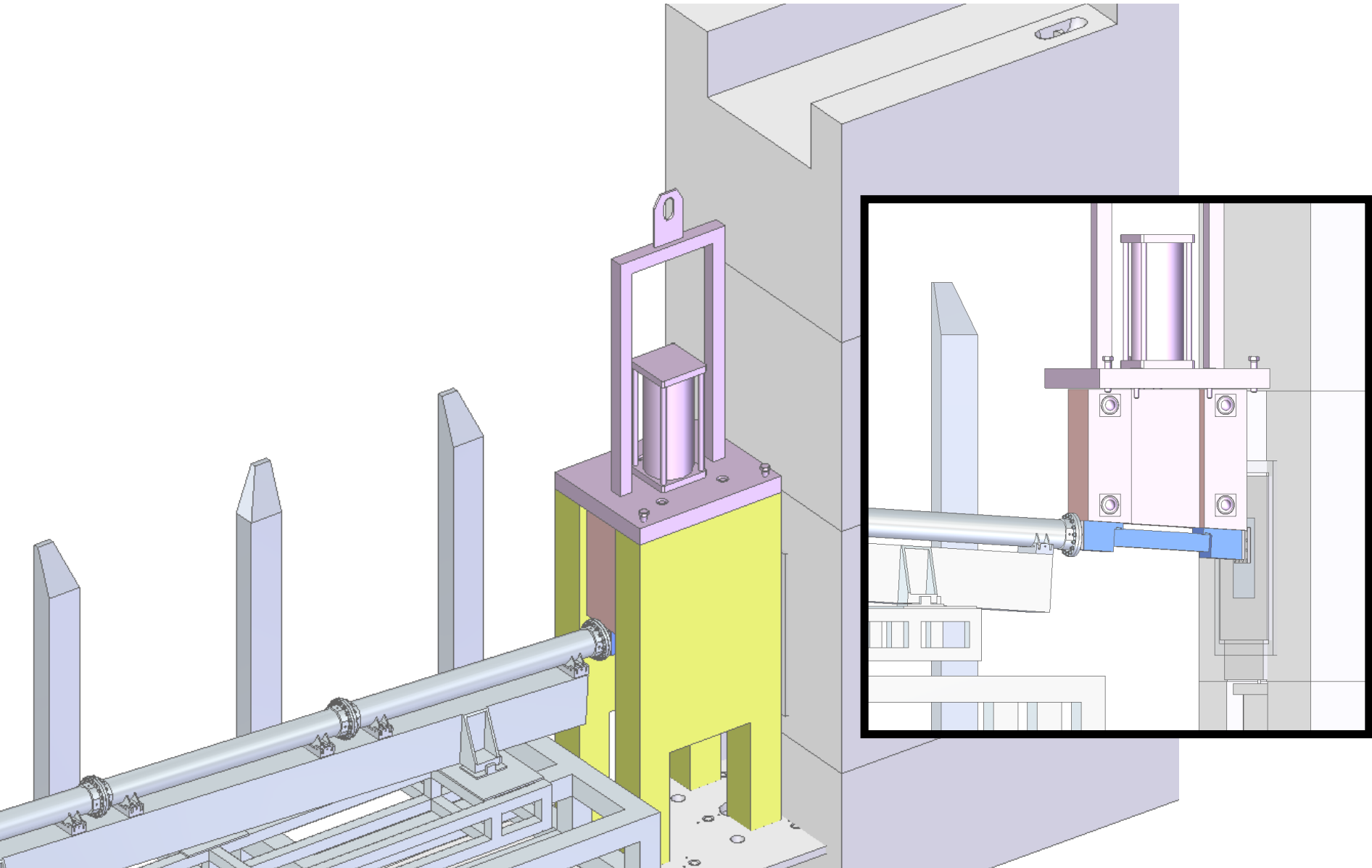
Section 3 Design Review



Section 4 Design Review

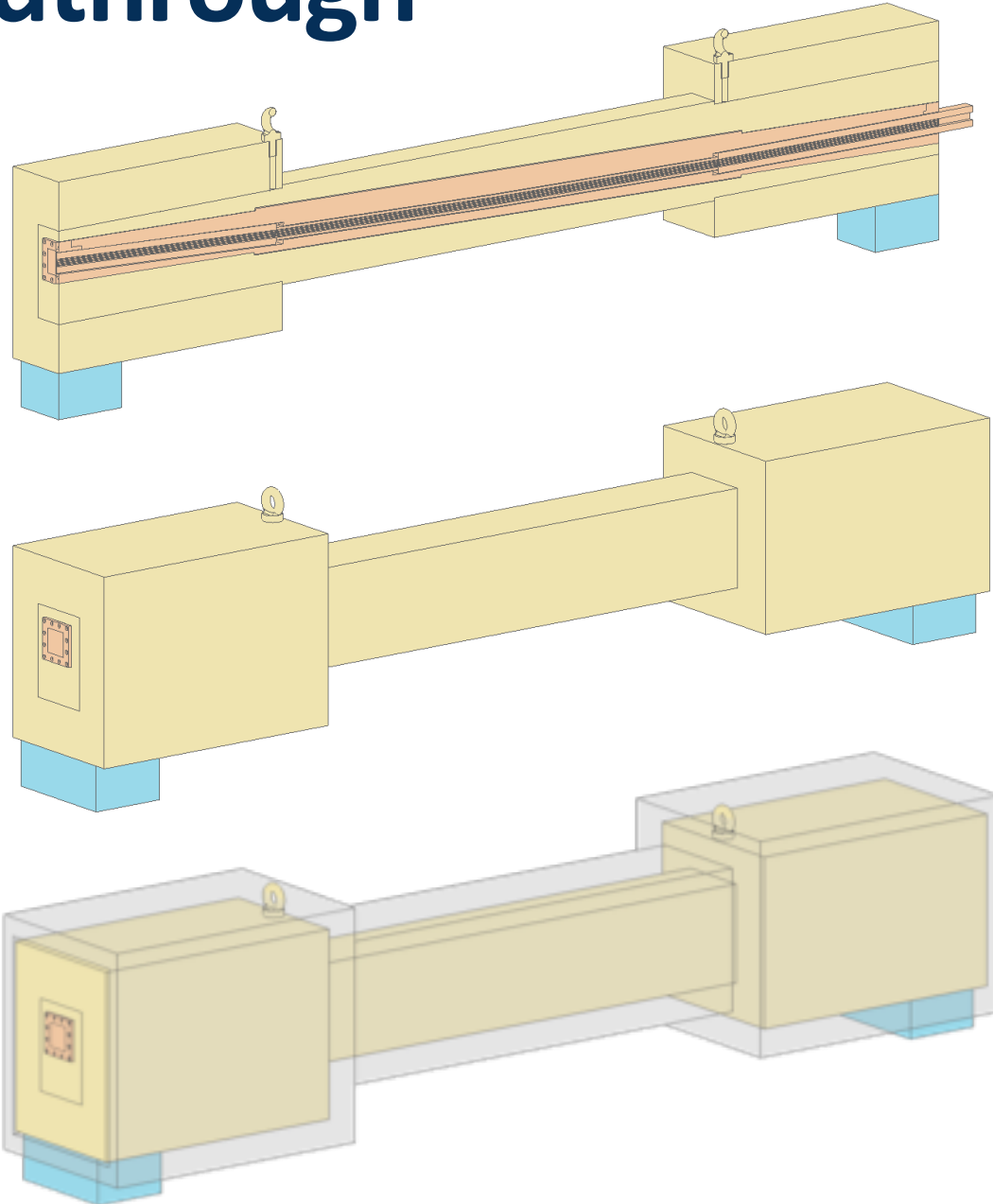
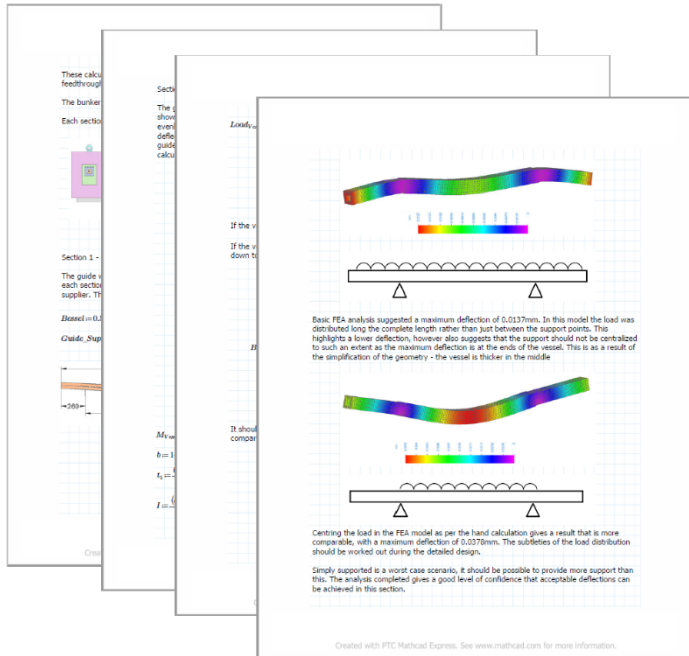


Section 5 (Heavy Shutter) Review



Feedthrough

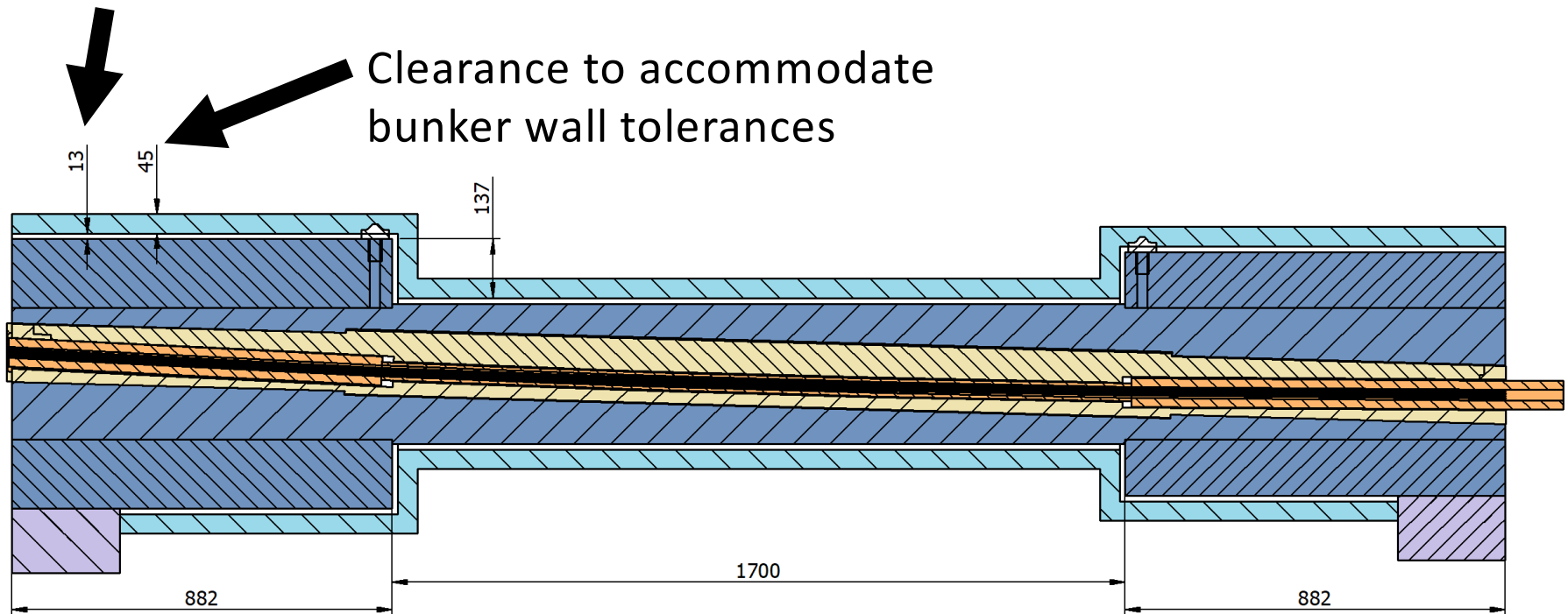
- 5 channel bender
- Guide and vessel to be tendered separately to the feedthrough plug



Feedthrough

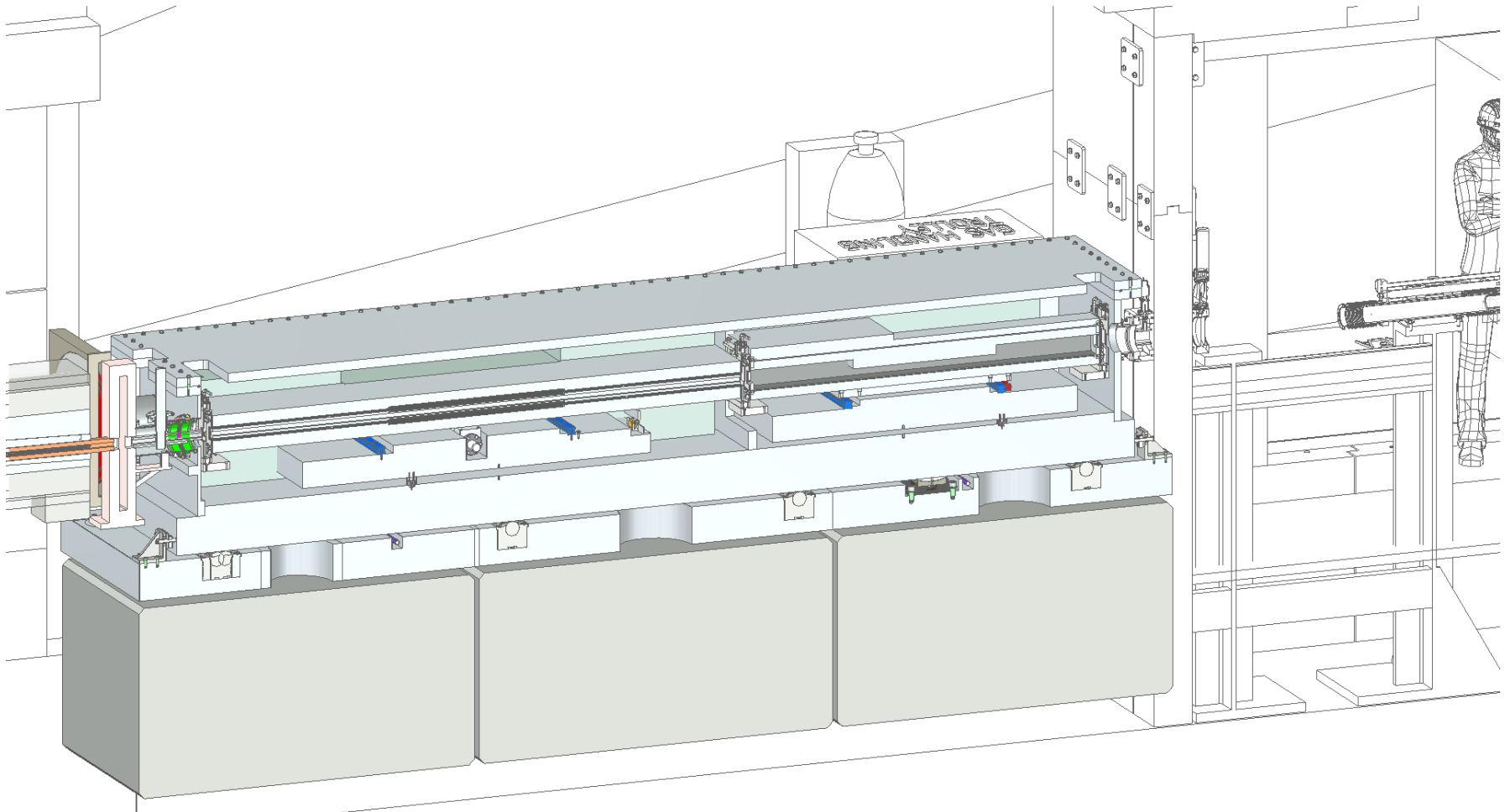
- The packing/shimming concept proposed by ESS to fill the bunker wall tolerance clearance is not seen as a viable solution

Functional clearance for alignment and installation



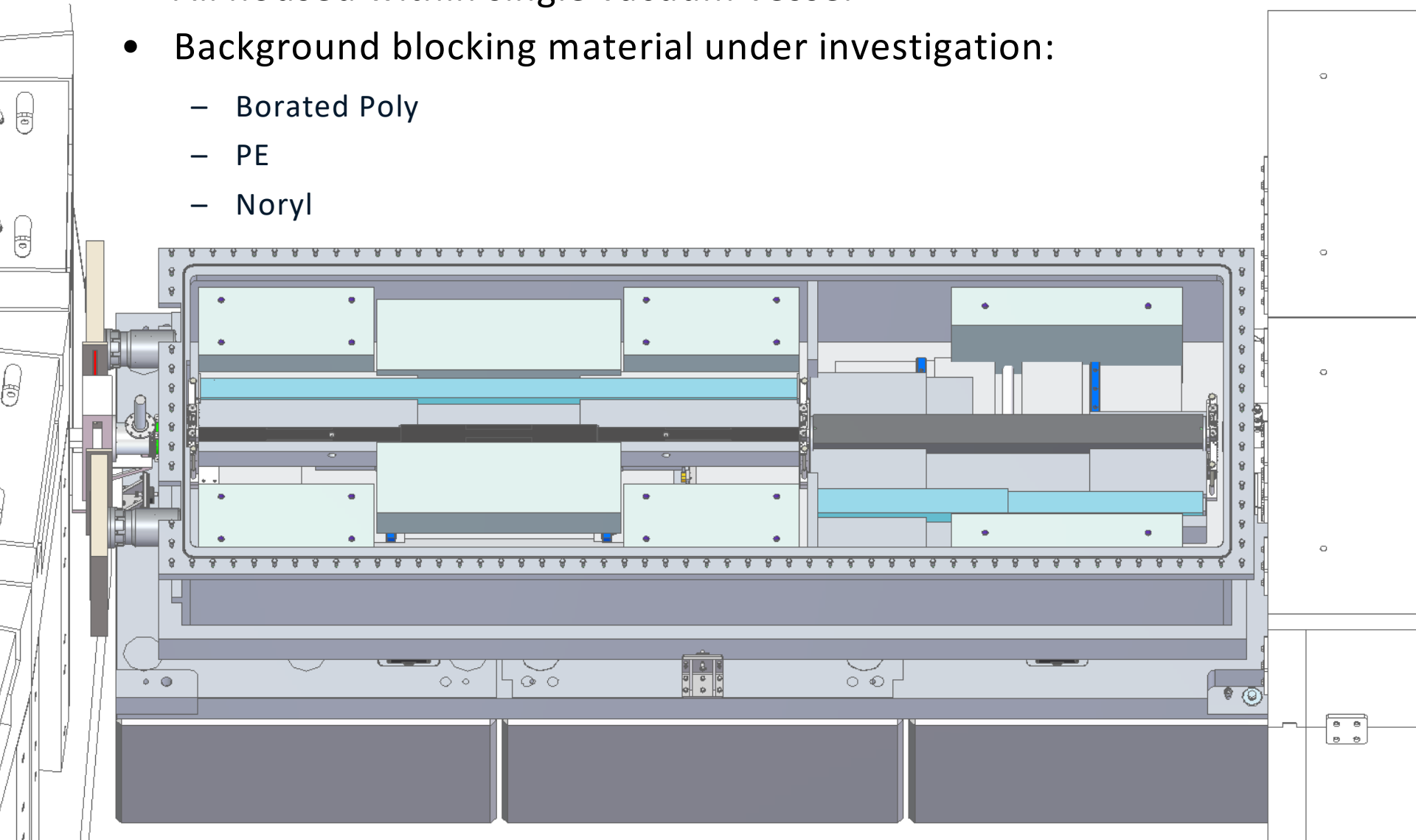
Bunker to Cave

- ISIS CDR completed 2 weeks ago
- Vessel tender planned next year



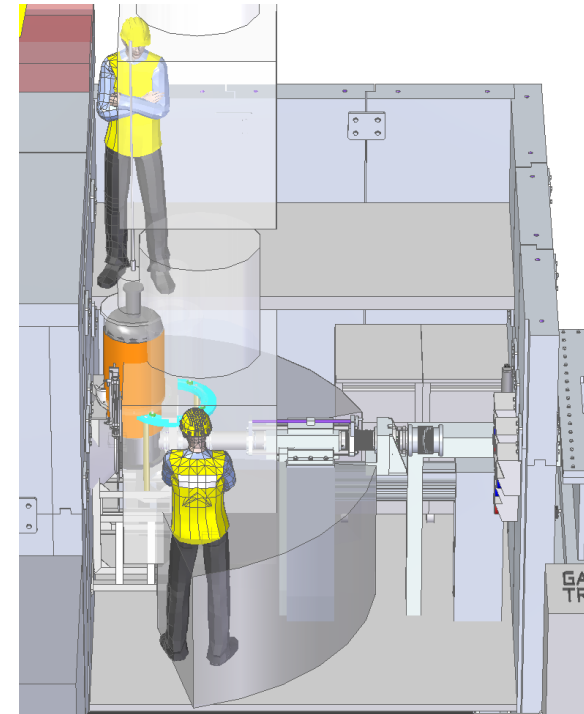
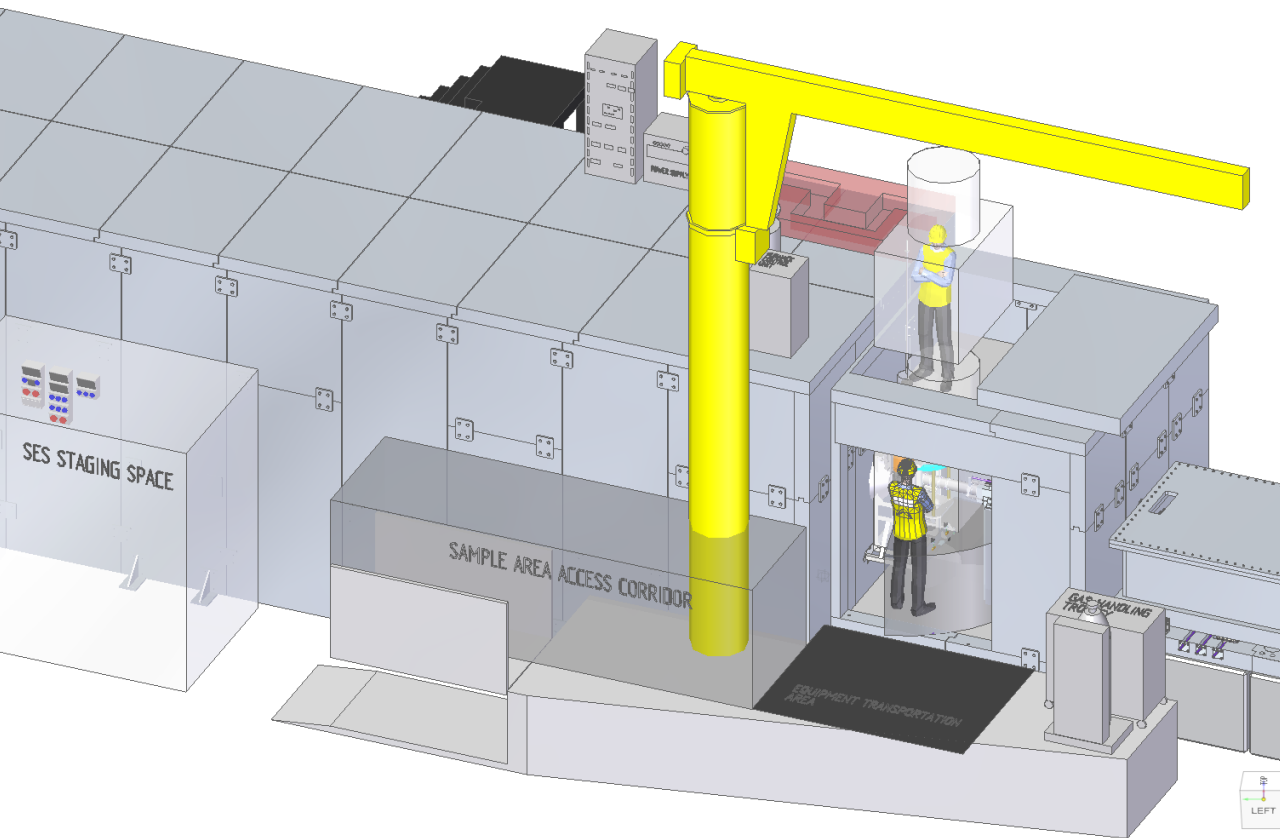
Bunker to Cave

- All housed within single vacuum vessel
- Background blocking material under investigation:
 - Borated Poly
 - PE
 - Noryl



Sample Area

- Investigation into sample area space started
 - Sample environment
 - Staging areas
 - Service panels
 - Personnel access



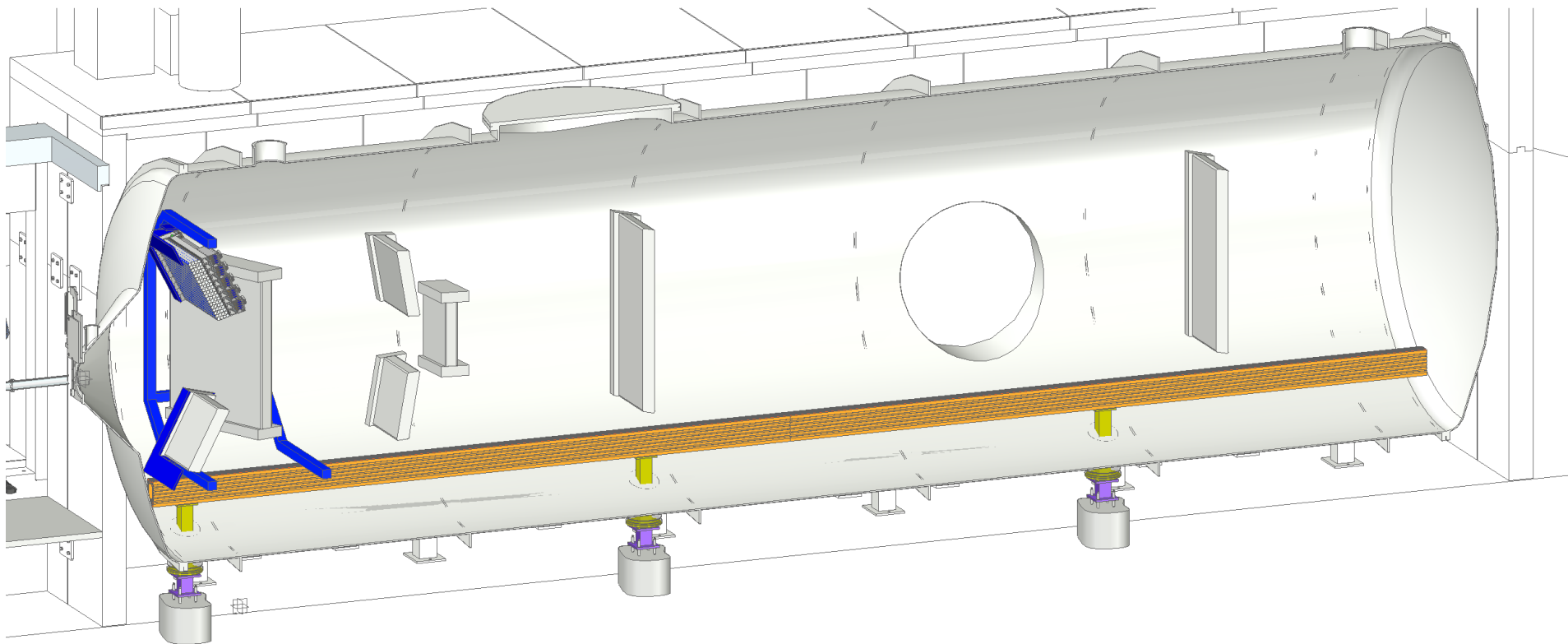
Loki Overview

- Adjustable length snout concept work started



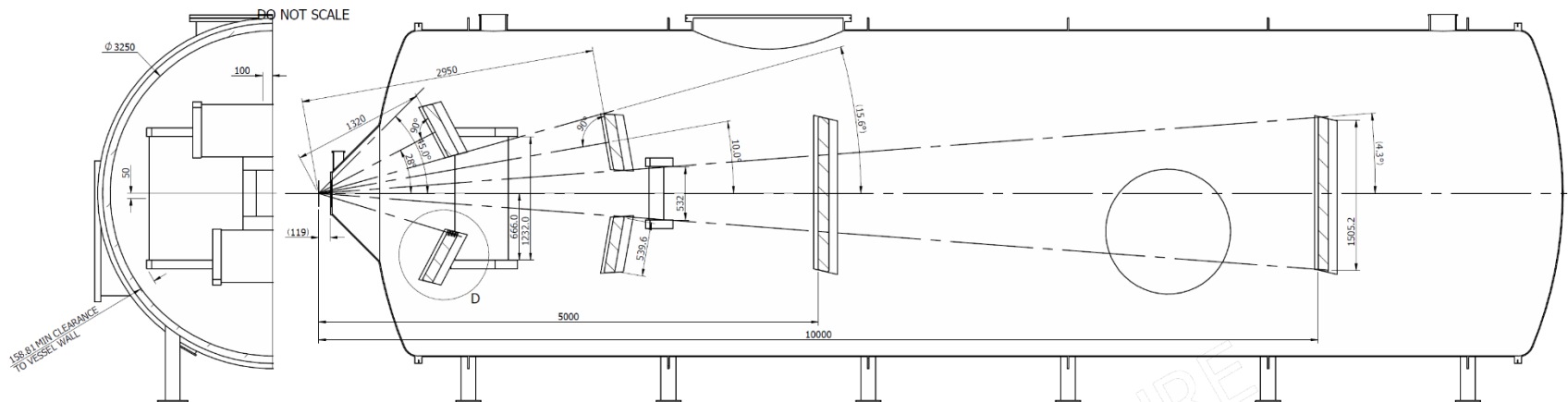
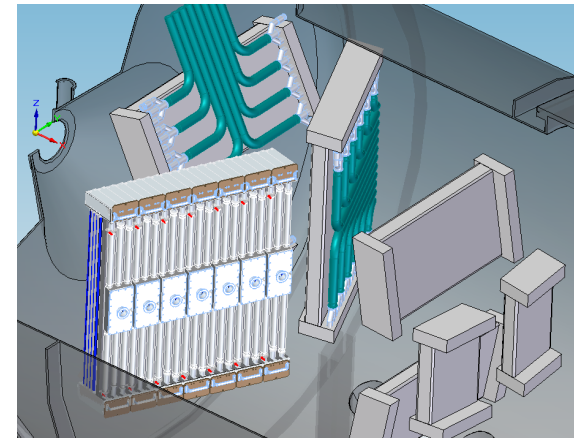
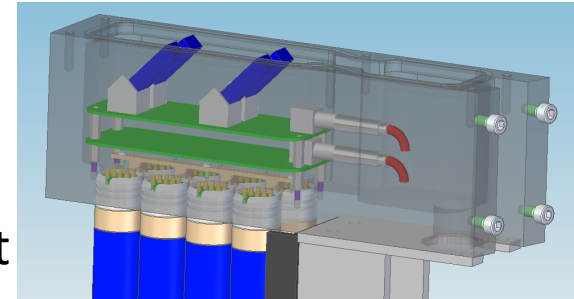
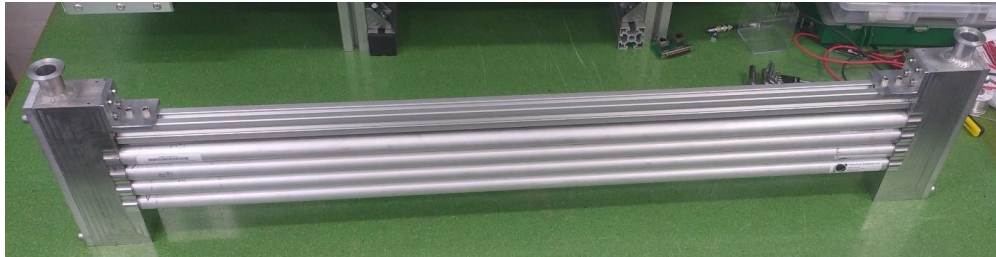
Detector System

- Detector technology now chose – Straw Tubes
 - Final development phase now underway
 - Detector vessel to be tendered at the start of the new year (OJEU)

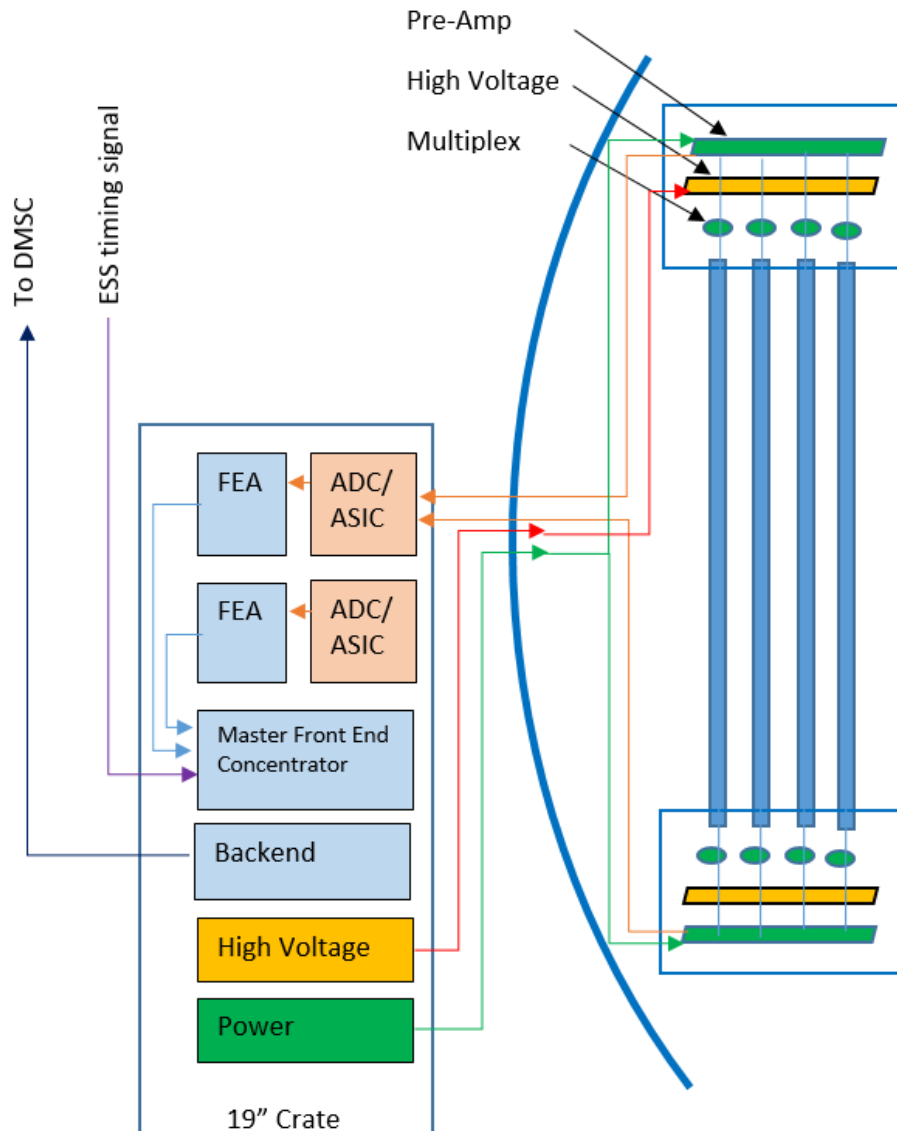


Detector System

- Array Layout finalized
- Air-box design finalization
- Electronics & DMSC interface in development
- Motion system under development
- Cable management designed



Detector Data Chain



Loki Update

- Questions

