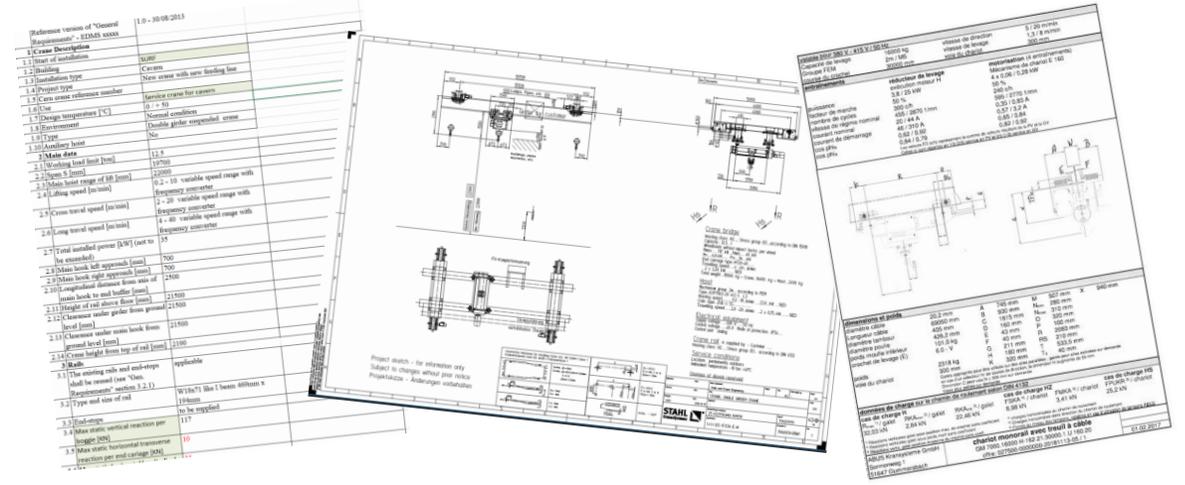
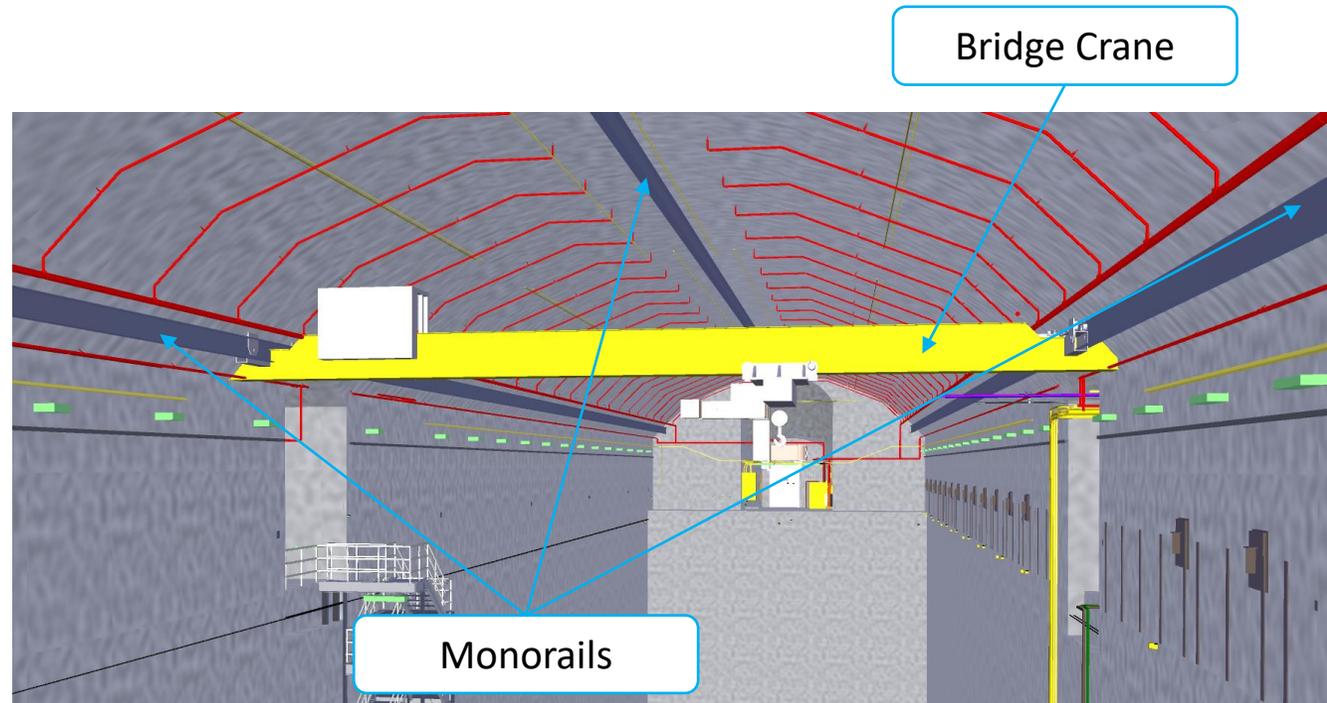


FS transition CF to Integration

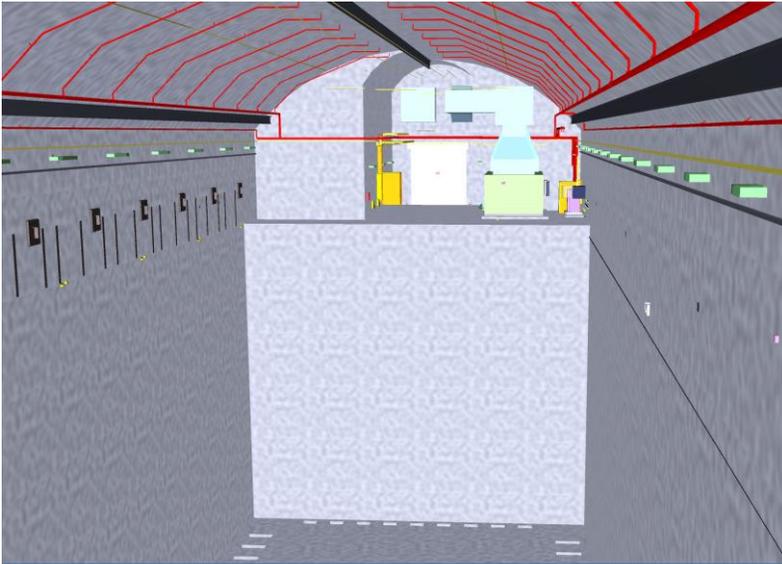
J Fowler

Overhead Crane and Hoists

- FSCF will supply 3 monorails and their supports, 20 tonne bridge crane, 6 - 15 tonne hoists and controls.
 - Scope to supply the crane and hoists is being transferred from Integration to FSCF (to mitigate risk and better coordinate the monorails, crane, hoists and controls)
- Engineers at CERN and FNAL are developing specifications for the crane and hoists
- A design review of the crane and specifications is being planned for early 2021



FSCF infrastructure needed by FS Integration to support Cryostat construction

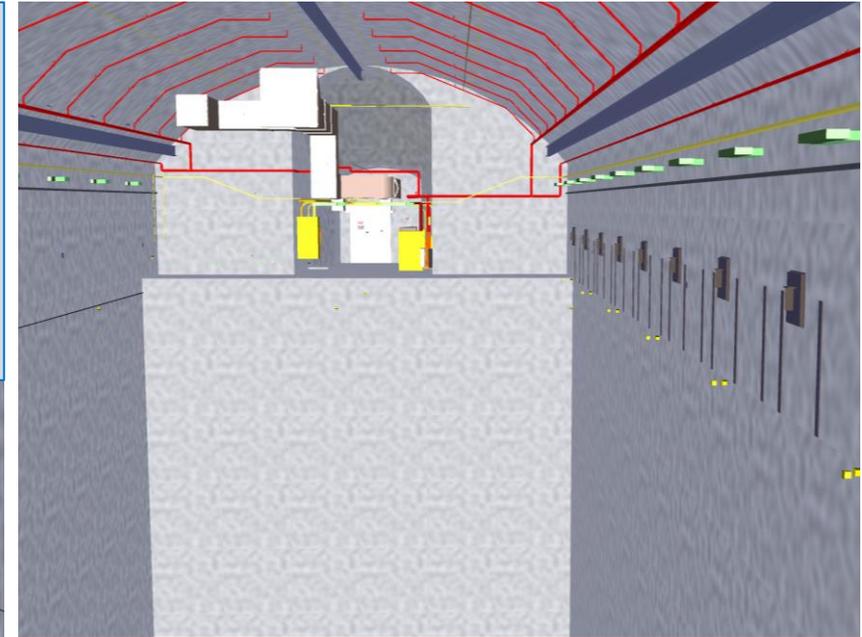
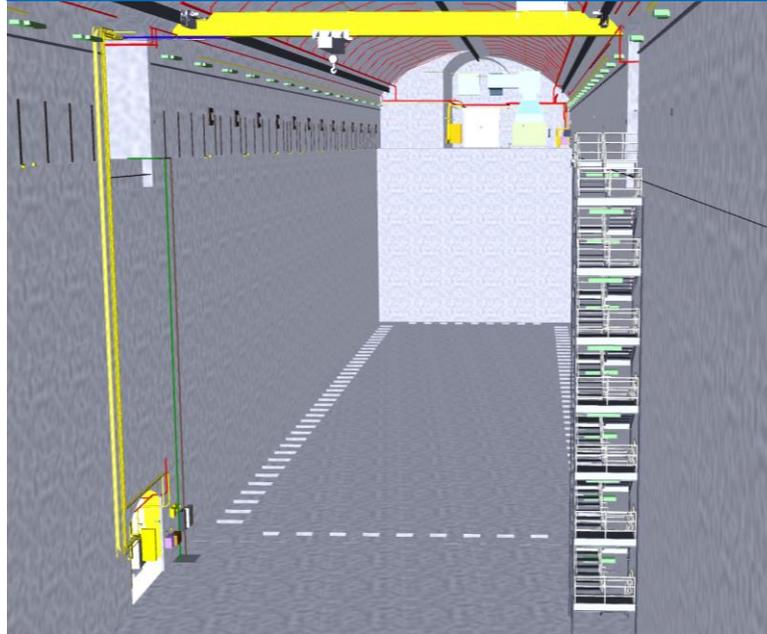


West end of cavern

- **AHU**
- **Power, lighting, cyber, safety systems**
- **Wall supports for pipes and cable trays**
- **Supports for cryogenic mezzanine**
- **3 monorails for hoists and overhead crane**

Mid cavern

- **Abutments for bridge**
- **Custom floor supports for cryostat beams**
- **Power panels for distribution at 4910 level**
- **Permanent stairs from 4850 to 4910**



East end of cavern

- **Exhaust fans for ventilation, ODH and smoke removal**
- **Power, lighting, cyber, safety systems**
- **Wall supports for pipes and cable trays**
- **Supports for cryogenic mezzanine**
- **3 monorails for hoists and overhead crane**

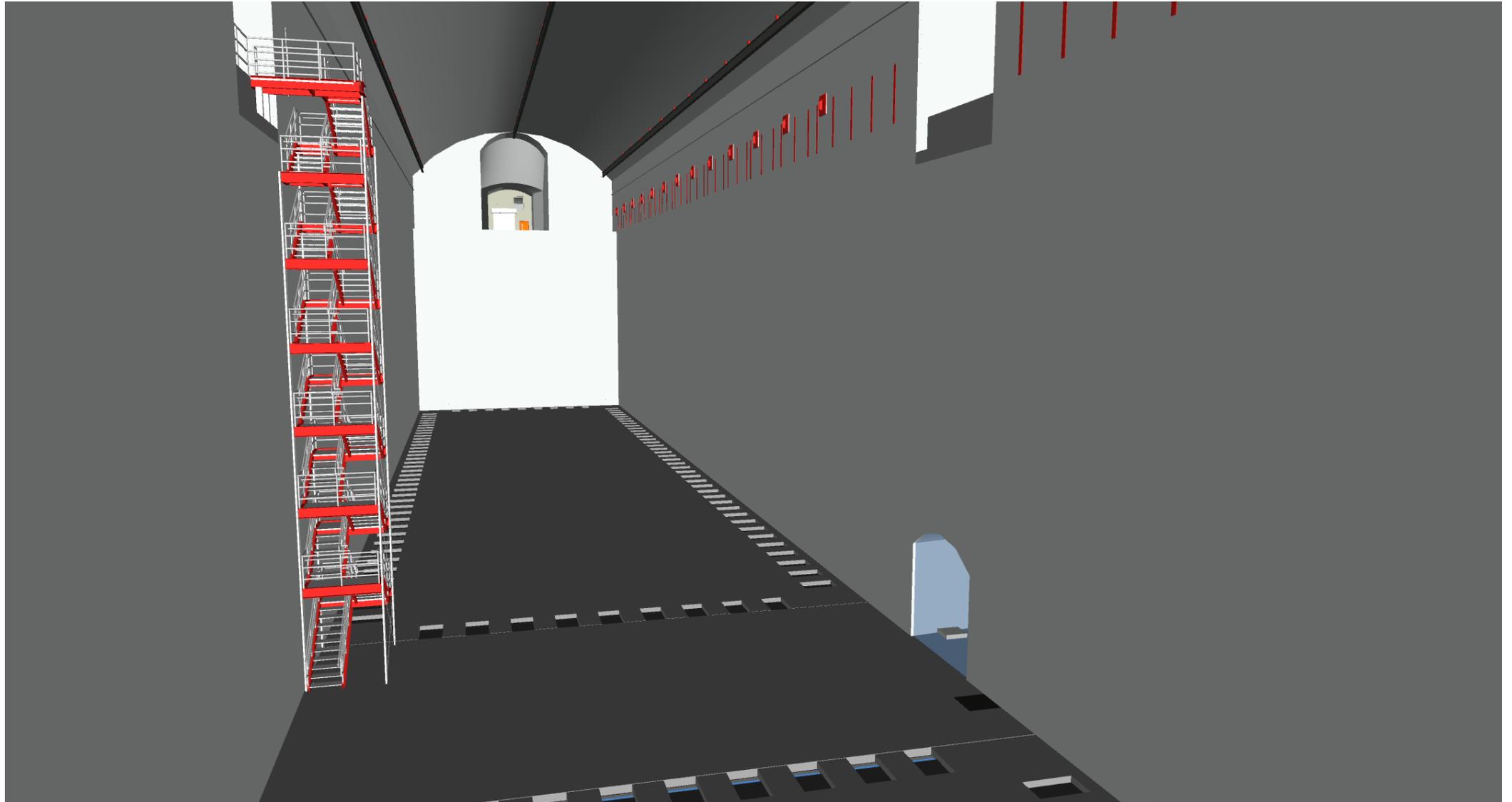
Included in EXC portion of FSCF

FSCF BSI scope items required to begin Cryostat Warm Structure construction + Items

FSCF BSI scope required for the construction of the Cryostat Cold Membrane (might be temporary at the beginning)

Final configuration of FSCF

BSI at handover TBD



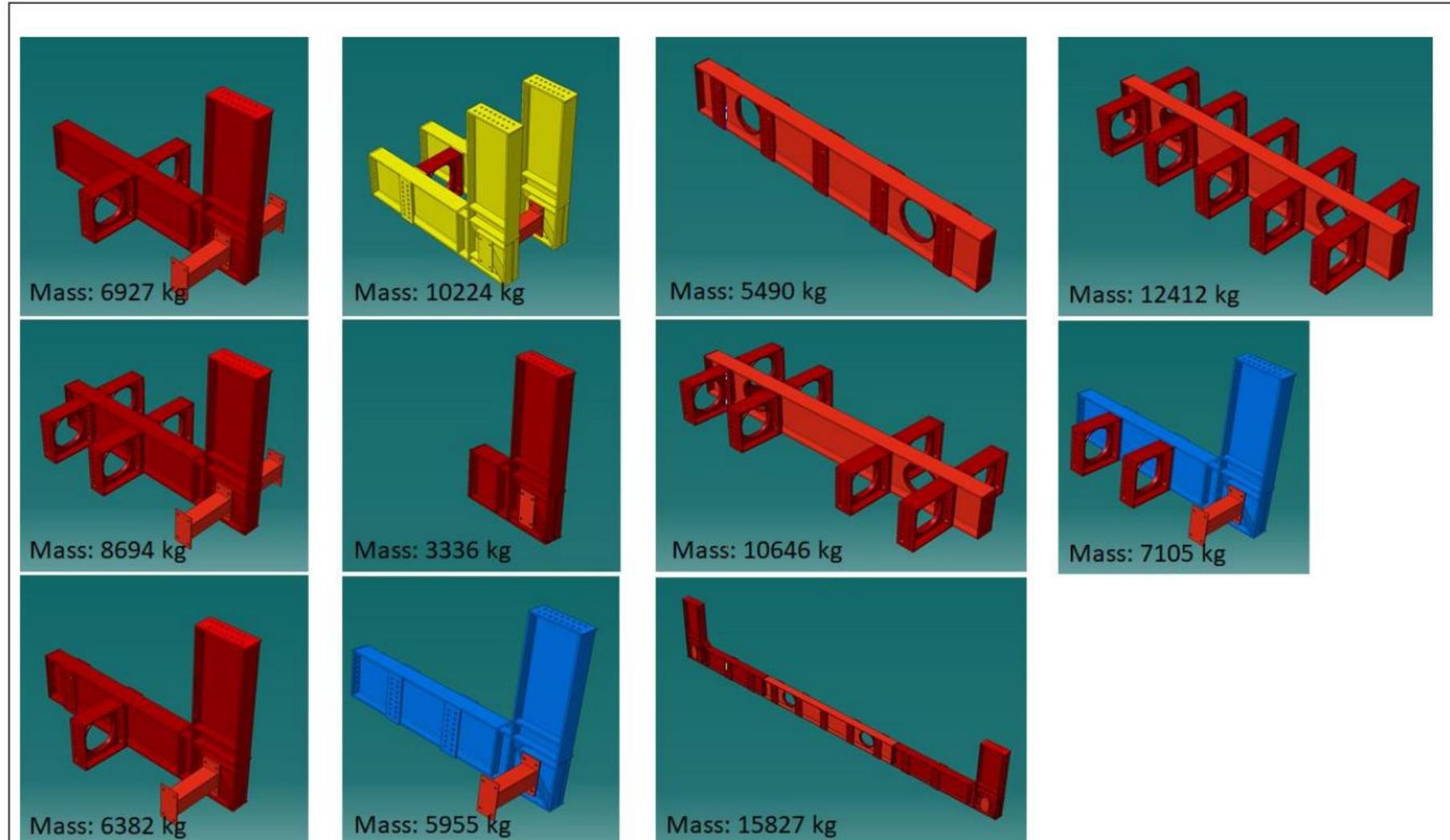


Figure 2-6: Cryostat subassemblies

Some relevant documents

- Cryostat construction info
 - <https://edms.cern.ch/document/2330554/1>
- Link to Navisworks models
 - <https://edms.cern.ch/project/CERN-0000194644>
- Link to 100% FSCF N2 UG models
 - <https://edms.cern.ch/project/CERN-0000215601>

