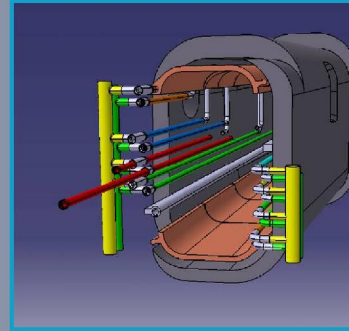


Project:

Development of the ITER Neutral Beam Duct Liner design concept



Client:

UKAEA, Culham, UK
Working for Fusion For Energy, Barcelona

Organisation & Management:

Oxford Technologies Ltd acted as sub-contractor to UKAEA in the performance of a contract for F4E. It utilised 3 professional staff on this 15 week project.

Aim:

The scope of this project included an assessment of the remote compatibility of the reference ITER design, followed by development of concepts for a revised duct liner and its remote handling system. Evaluating remote operations within the 1m x 0.5m x 5m long duct was an important element of this challenging study.

Implementation:

The contract was conducted in stages:-

- > Remote Handling compatibility assessment for the existing Duct Liner
- > Definition of design baseline requirements
- > Development of concepts for RH compatible Duct Liner design
- > Trade-Off analysis and selection of preferred concept
- > Derivation of Concept design for RH system to perform removal / replacement ops.
- > Detailed Modelling of selected RH concepts and tooling
- > Creation of a VR animation of the remote handling process