

JRA Sample Environment

MNI3 Meeting, PSI

High Pressure Task

30.03.2009

Work out a joint approach to the **Health & Safety** aspects based on the **Pressure Equipment Regulations (PED)**

Inert Gas Cells

Tasks:

1. **10 kbar** automated gas handling system for inert gases and **15 kbar** 'oil' intensifier for hydraulic testing (ISIS, LLB)
2. Design and produce cells and test seal systems up to **8 kbar** (LT – 300 K) (LLB)
3. Design and prototype **10 kbar** cells for 300 K (LLB)

Hydrogen Cells

Tasks:

1. Materials – H_2 compatibility/neutron transmission properties (ISIS, LLB and HZB)
2. Sourcing, assembly and commissioning of **8 kbar** and **10 kbar** H_2 intensifiers and gas handling system (HZB, ISIS)
3. Produce and test cell for **4 kbar** up to **700 K** and for **6 kbar** up to **300 K** (ISIS, LLB)
4. Design and prototype **8 kbar** cells for LT – 300 K (ISIS, LLB)