High Temperature Fatigue and Life Assessment Service

Fatigue performance, at room temperature or elevated temperature is an integral part of the life assessment of components operating in a variety of industries. In addition to the present room temperature fatigue testing capabilities, ANSTO has commissioned a high temperature fatigue system.

The fatigue machine is push-pull and can operate as a fully reversed system (R=-1). This system can provide analysis of both high cycle fatigue (load-controlled) and low cycle fatigue (strain-controlled) up to 850°C, in accordance with relevant ASTM and BS standards. Accurate extensometry and temperature control enables high precision testing and ensures the maximum amount of test information is gained during the analysis.

Key Capabilities

- Tension/compression uniaxial loading
- Temperatures of (500-600°C) up to 850°C
- Tests conducted under strain control
- Specialised capability for tests under vacuum or inert atmosphere

For further information, please contact:

Sam Humphries – Leader, Testing & Development
ANSTO, PMB 1 Menai NSW 2234
Ph: +61 2 9717 3497    Fax: +61 2 9543 7179
Email: sam.humphries@ansto.gov.au