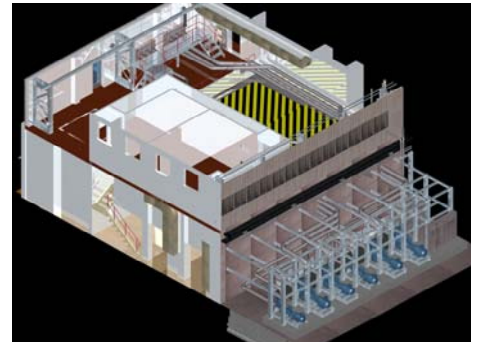


Legacy Ponds Remediation

Customer: British Nuclear Group
Project: Legacy Ponds Remediation
 Redundant Effluent & Sludge Pipework Project
Date: 2003 Ongoing
Services: ACKtiv JV Alliance
 Design, Procurement, Installation, Commissioning
Value: £30.8 Million



Scope of Work

The Legacy Ponds projects at Sellafield are being executed by an alliance team comprising of British Nuclear Group and ACKtiv Nuclear Joint Venture. The ACKtiv Nuclear JV brings together three of the most well respected engineering, construction and full asset lifecycle service organisations in the Nuclear sector - Aker Solutions, Carillion and Atkins.

As part of the Legacy Ponds projects ACKtiv Nuclear JV are delivering the Redundant Effluent and Sludge Pipework Project (RESPS).

Description

The Redundant Effluent Sludge Pipework System (RESPS) forms part of the primary containment of the Pond water and Intermediate Level Waste sludge, and is subject to full Pond water head. It consists of 420m of exposed cast iron and mild steel pipework which has substantially deteriorated due to the effects of corrosion.

The project aim is to implement early risk reduction measures in parallel with work on longer term permanent solutions. The work is being undertaken on a phased basis with the risk reduction measures split in to deliverable Tasks.

- *New automated non-contact Frost Protection systems*
- *New diverse Liquor Detection and Alarm systems*
- *Enhanced CCTV & Lighting systems*
- *Four new Emergency Pumping systems :*
 - *South Active Drain Trench*
 - *Hydraulic Pump Room*
 - *West Mast Park*
 - *Mezzanine Pump Room*
- *New temporary and permanent leak termination systems*
- *Enhanced existing Emergency Pumping System - remote starting*
- *Encapsulation of exposed pipework in sumps*
- *Localised Secondary Containment*

