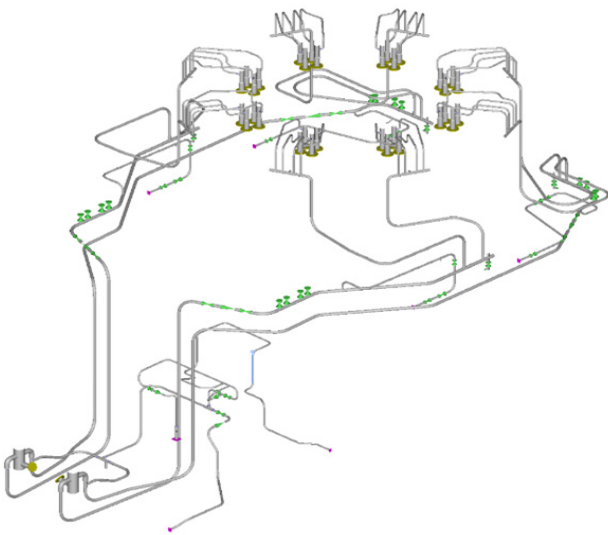


# Consequences of Postulated Pipe Hanger Failure



## Project Objective

Pipe hanger failure in high-temperature piping systems can lead to severe consequences, including increased stress on welds and components, ultimately resulting in premature creep damage. This project examines the consequences of a postulated pipe hanger failure within the context of Advanced Gas-cooled Reactor (AGR) power stations, focusing on the impact of such a failure on the structural integrity of critical piping systems. The assessment was conducted as part of Kinectrics ongoing collaboration with British Energy's (now EDF) Structural Analysis Group.



A hanger model

### Project Scope:

The investigation found that failing pipe hangers could stress nearby piping, risking creep damage. This helped the client prioritise inspections on high-risk hangers, preventing failures and extending the piping system's lifespan. The project scope included:

- **Conducting** detailed flexibility and failure assessments to identify high-risk hangers.
- **Providing** clear and actionable recommendations for targeted inspections and maintenance.
- **Offering** insights into cost-effective measures to mitigate the risks associated with pipe hanger failures.

