

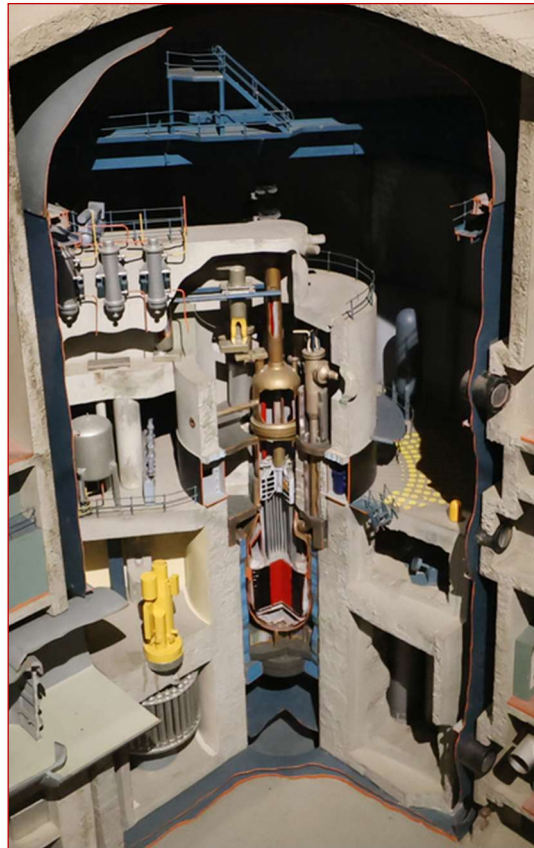
CASE STUDY

Subject: Decommissioning of Reactor Core & High Hazard Radioactive Confinement.

Client: NRS (Magnox).

Project: DRAGON & SGHWR Reactor Decommissioning Winfrith.

Brief: Design of HVAC/ Active Ventilation Systems to provide high integrity containment of irradiated material for encapsulation.



Summary Scope of Work

Ingenium Technical were contracted by Nuvia to support a critical phase of Active Ventilation Design, Installation and Commissioning.

DRAGON (High Temperature Gas Cooled Reactor) dismantling, decommissioning and encapsulation was undertaken to remove the highly irradiated reactor core and associated secondary systems within a primary containment system (Head Cell).

Ingenium were responsible as HVAC experts for the HVAC project engineering management/ consultancy as well as contractor design support, installation & commissioning of a high integrity Active Ventilation System.

The system comprising of all elements in compliance with UK RGP and the decommissioning Safety Case.

The entire system was remodelled to suite new location of plantroom, which included ongoing cascade pressure changes, containment boundaries and all element of ductwork, and inline plant and equipment such as dampers, fire dampers, large centrifugal fans and significant runs of ductwork, for stack connection which including a new stack sampling and monitoring system.