

Environmental Remediation at Sellafield



KEY INFORMATION

SITE:

Sellafield, Cumbria

PROJECT VALUE:

£2bn/yr

PROJECT TIMING/DURATION:

Lifetime plant runs until 2020

Project Overview

Work at Sellafield ranges from cleaning-up the country's highest nuclear risks and hazards to safeguarding nuclear fuel, materials and waste. Our mission is nationally important. Our purpose is to keep Sellafield safe and secure, cleaning-up the site to a defined end state.

Details on solution/approach

We work in value streams, prioritising what we do and how we do it to maximise value. We currently have four value streams:

- **Retrievals** – we are retrieving nuclear waste, fuel and sludge that are stored inside our legacy ponds and silos, the highest risks and hazards at Sellafield.
- **Remediation** – beyond the legacy ponds and silos, we have hundreds of nuclear and non-nuclear facilities at Sellafield that need to be cleaned-up.
- **Spent nuclear fuel management** – we currently reprocess spent nuclear fuel. That means taking the fuel that has been used inside a nuclear power station and extracting the individual component parts of plutonium, uranium and waste. In future we will store fuel instead of reprocessing it.
- **Special nuclear materials** – we have the facilities and expertise to provide safe, secure and appropriate storage for special nuclear materials.

Operating the Sellafield site also includes:

- **Nuclear waste management** – we are the only organisation who can safely manage all three forms of nuclear waste: high, intermediate and low.
- **Infrastructure** – our day-to-day operations at Sellafield rely on the availability of a range of services, from an on-site laundry to a comprehensive rail network.