
Nuclear Restoration Services

Nuleaf

14/12/2023





Angela Vincent – Head of Operational Communications

Kirsty Ramsden – Head of Internal Communications

Nuclear Restoration Services

Branding



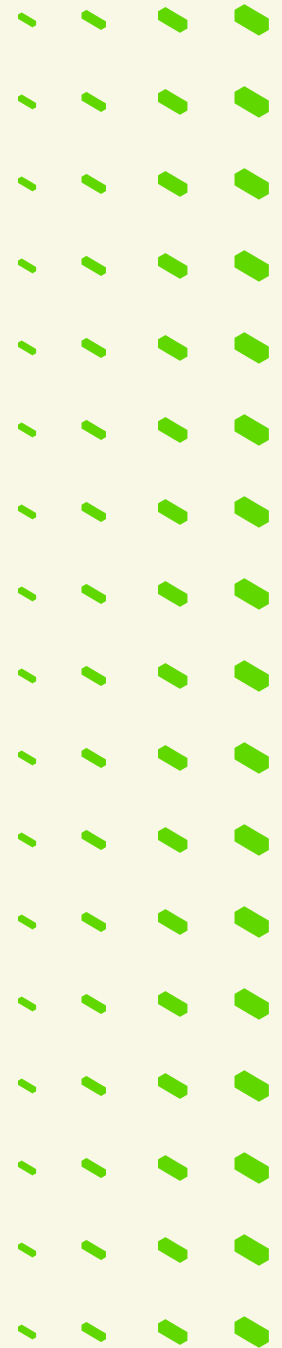
Why NRS

- **Nuclear** – naming the sector with pride, consistent with other parts of the group
- **Restoration** – encompassing all parts of the mission, from decommissioning sites and restoring land to investing in skills and communities
- **Services** – recognising the variety of services offered at different locations by a company with a varied portfolio and the value this brings



Single organising principle

For all our futures





Our purpose

We are responsible for the delivery of value for money decommissioning and restoration of nuclear sites, ensuring all our futures are safe, secure and sustainable.

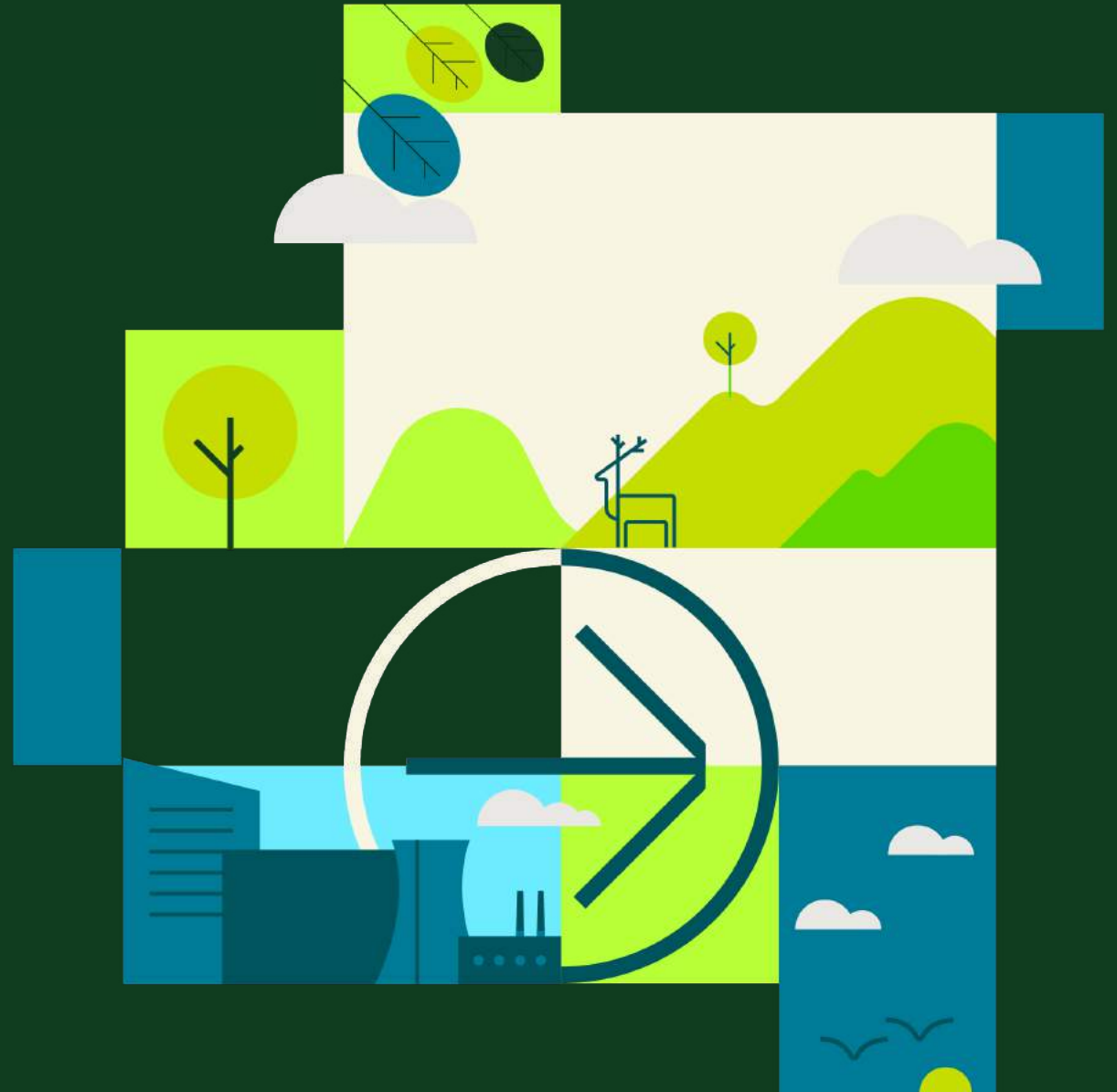


Values



Nuclear Restoration Services

Our 10-year strategy



01



Deliver

Deliver

Our delivery goals over the next ten years are to decommission our sites so that:



fuel and waste is retrieved, treated and disposed of.



land is de-designated or reused.



buildings are dismantled or demolished.



safety, security and sustainability is considered in everything we do.



02



Transform

Transform

We want to be the most effective and efficient organisation we can. We will change our business to become fit for the future.



03



Innovate

Innovate

Our ambition is to save billions and decades in the long term, while saving millions and years now.



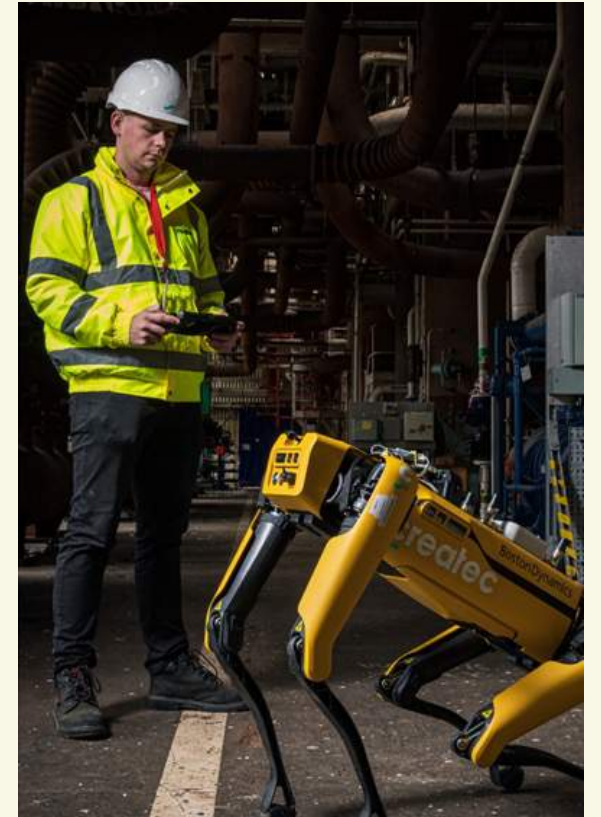
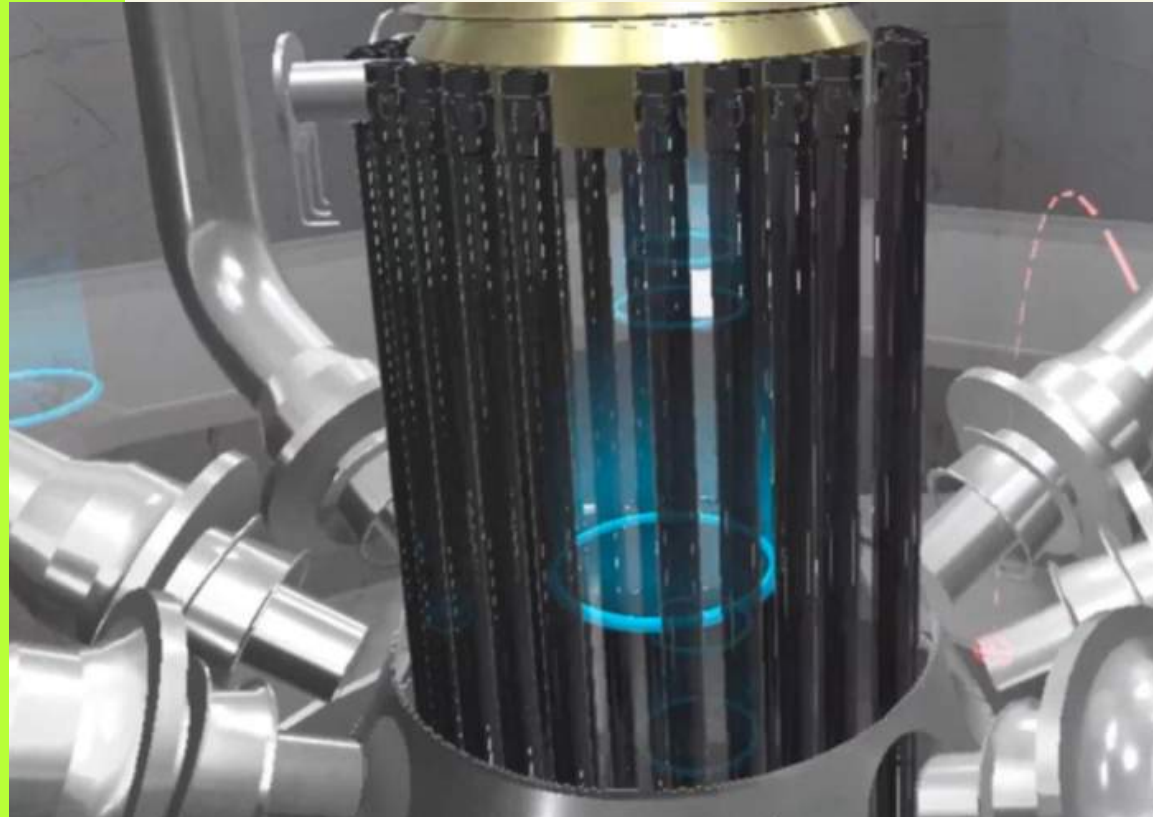
Strategic



Programme



Workforce



04



Grow

Grow

We will take on new work over the next ten years in a careful and considered fashion.

-  AGRs
-  Vulcan
-  MoD Collaboration



Integrate
new missions



Develop
local and regional solutions



Scale
trusted to do more

Grow – Future Missions



NuLeaf

Achievements



23/11/23



NRS
Nuclear Restoration
Services

Harwell and Winfrith



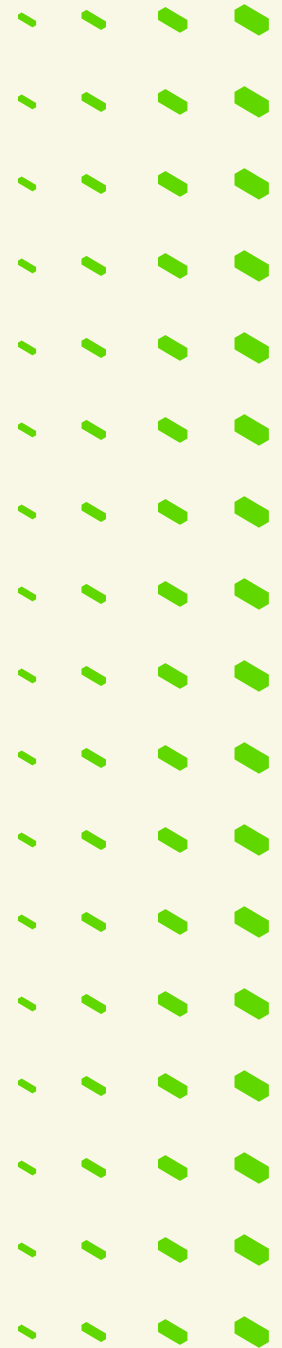
Harwell Site completed last shipment of the off-site discharge 8.5 km pipeline in April at our Harwell Site:

- Pipeline ran across valuable private land from Harwell Site to River Thames
- Removed in 1,650 sections from 2013-2020
- Pipeline sent to Augean waste recovery park for ultra-high pressure water jetting
- 99% of waste recycled
- Won NDA Best Project Award of the Year



In 2023 the final drum has been retrieved from the Treated Radwaste Store on the Winfrith site:

- 1068 drums have been retrieved
- The drums are prepared and ready for transportation by rail to Nuclear Waste Services in Cumbria
- The final rail shipments will be made in the new year
- This project represents a considerable achievement in terms of sustainability and environmental awareness by using rail as opposed to road transport, reducing the carbon footprint



Chapelcross and Hunterston



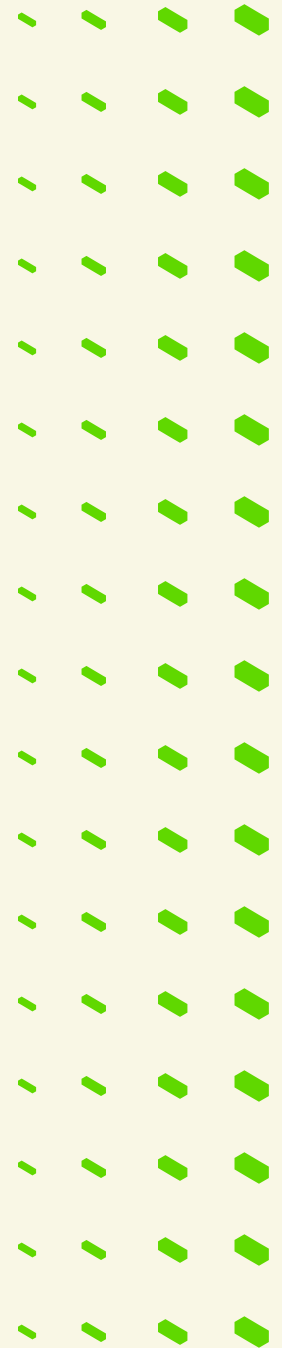
Our Chapelcross Site has completed a major campaign of work, retrieving High Dose Rate Items and MAC and Cobalt into Mosaiks:

- 34 items have been retrieved in total
- This significantly reduces the ILW inventory of the ponds



This year the higher activity waste operations team has cleared sludge retention tank numbers 2 and 3:

- The Waste Operations Team used a cost-effective device called a 'dumper bot'— agricultural device innovatively modified by Forth Engineering
- It is a great example of the Operations team using their experience to take a concept through to a conclusion and achieve a key outcome



Bradwell, Dungeness and Sizewell



Our Bradwell Site annual inspection campaign has been successfully completed

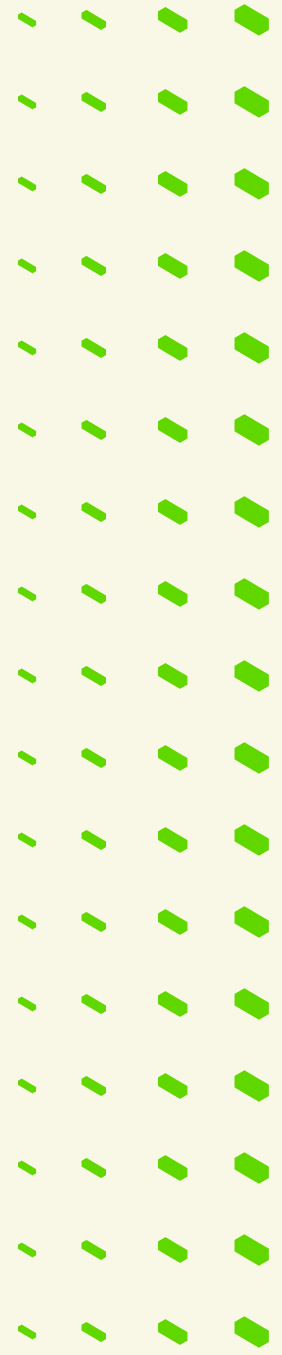


The Wet Waste building construction on site has been completed and handed over in less than 13 months since site mobilisation delivering a group key target milestone



Our Sizewell Site has completed the intermediate level waste skip sampling campaign in the spent fuel pond:

- Retrieved samples will be dispatched shortly along with Low Level Waste samples to an offsite laboratory for radiochemical analysis
- This characterisation work will enable generation of a radiological fingerprint which in turn will inform skip sentencing decision and enable LLW and Intermediate Level Waste routes



Berkeley, Oldbury and Hinkley



Our Berkeley Site has many achievements to celebrate:

- received 23.18Te of waste
- transferred 7 concrete boxes to the Interim Storage facility
- 5 cans containing wet sludge have also been processed
- 1000 days without a lost time accident



Oldbury Site 2023 achievements:

- Completed the stretch target for legacy waste disposal and for Joint Waste Management Plan shipments
- Since April 2023, 466 cables were cut in the Turbine Hall and the Oldbury Training Centre
- Solar panels have been successfully installed & commissioned which is not only a sustainable energy source but will also contribute towards the 5% cost reduction challenge
- Excellent progress has been made in the Pondwater Filtration Plant (PFP)
- Three Caesium Removal Units have been size reduced which forms part of the decommissioning activities in the building



Hinkley Point A 2023 achievements:

- Achieved an asbestos remediation milestone in reactor 1 boiler house by cleaning 5,000m² and aiming to reach 7,000m² by the end of the financial year
- Retrieval of 8 tonnes of Fuel Element Debris (FED)
- Established the Hinkley School for apprentices with 14 apprentices over 6 different trades
- Launched the first work experience programme for the site
- Visiting local schools and colleges to offer STEM talks



Trawsfynydd and Wylfa



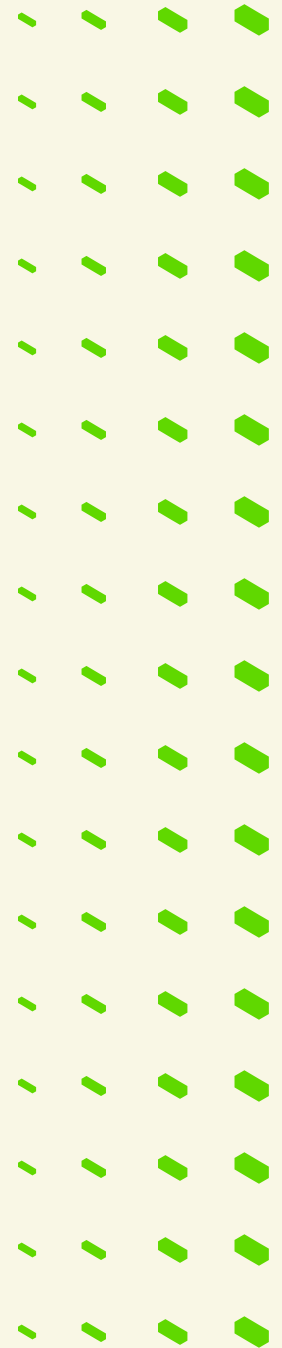
Recently completed the height reduction enablers project of internal roof capping ahead of schedule:

- Total of 50m³ of concrete, 200m² of decking and 9.7Te of steelwork were installed
- Enables the next phase of the reactor building decommissioning
- Reduction in height of both reactor buildings to approximately 2/3 of their current height



In 2016 our Wylfa team conducted inspections of the exterior of the reactor buildings to assess their weather integrity.

As a result, we replaced around 280 sheets of cladding covering 720 m² on the south side of reactor two, as well as about 64 m of stainless-steel guttering to ensure the security of the building.



Dounreay

At Dounreay we want to take a significant step forward in decommissioning our fast reactors by removing the remaining fuel and sodium coolant.

Our key milestone for Shaft and Silo is to complete installation of the headworks to enable waste retrieval. We also want to make progress in the Fuel Cycle Area by completing the enabling works and putting all thorium into waste stores.



Top Stats!



Did you know?

In 2023, we demolished more than 7000m² of buildings and structures, equivalent to **FIVE** Manchester Cathedrals!



Did you know?

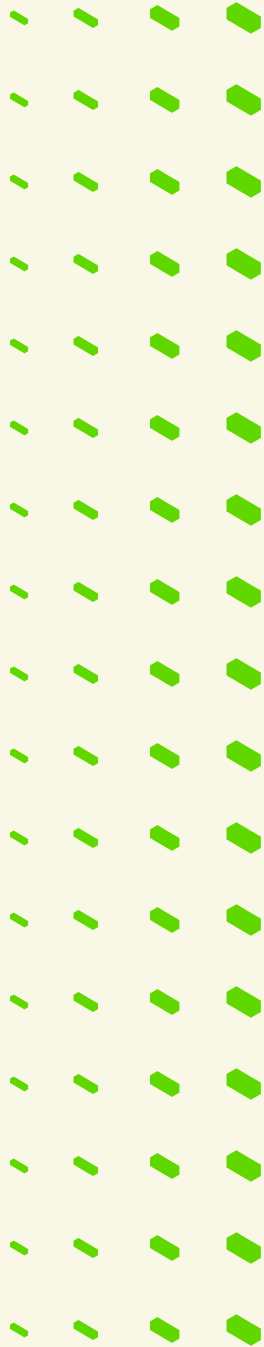
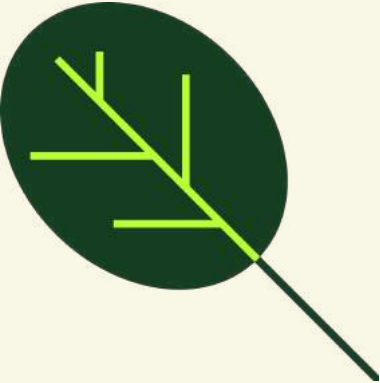
We removed 15,000m² of asbestos in 2023, an area bigger than Trafalgar Square in London!



Did you know?

In 2023, we've made a lot of progress deplanting the turbine hall at Sizewell A, which has more steel in weight than the Eiffel Tower!

Socio economic funding



The Big Conversation



Any questions

