

Winfrith Site Stakeholder Group (SSG) 13th May 2025

Gary Reid
Harwell and Winfrith Site Director



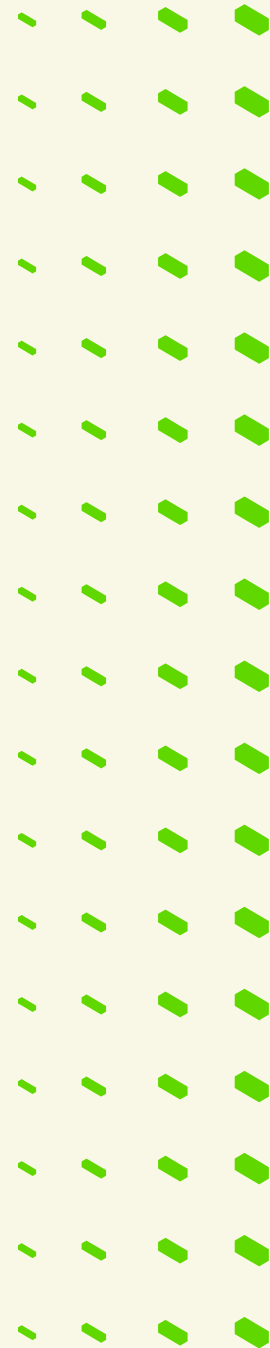
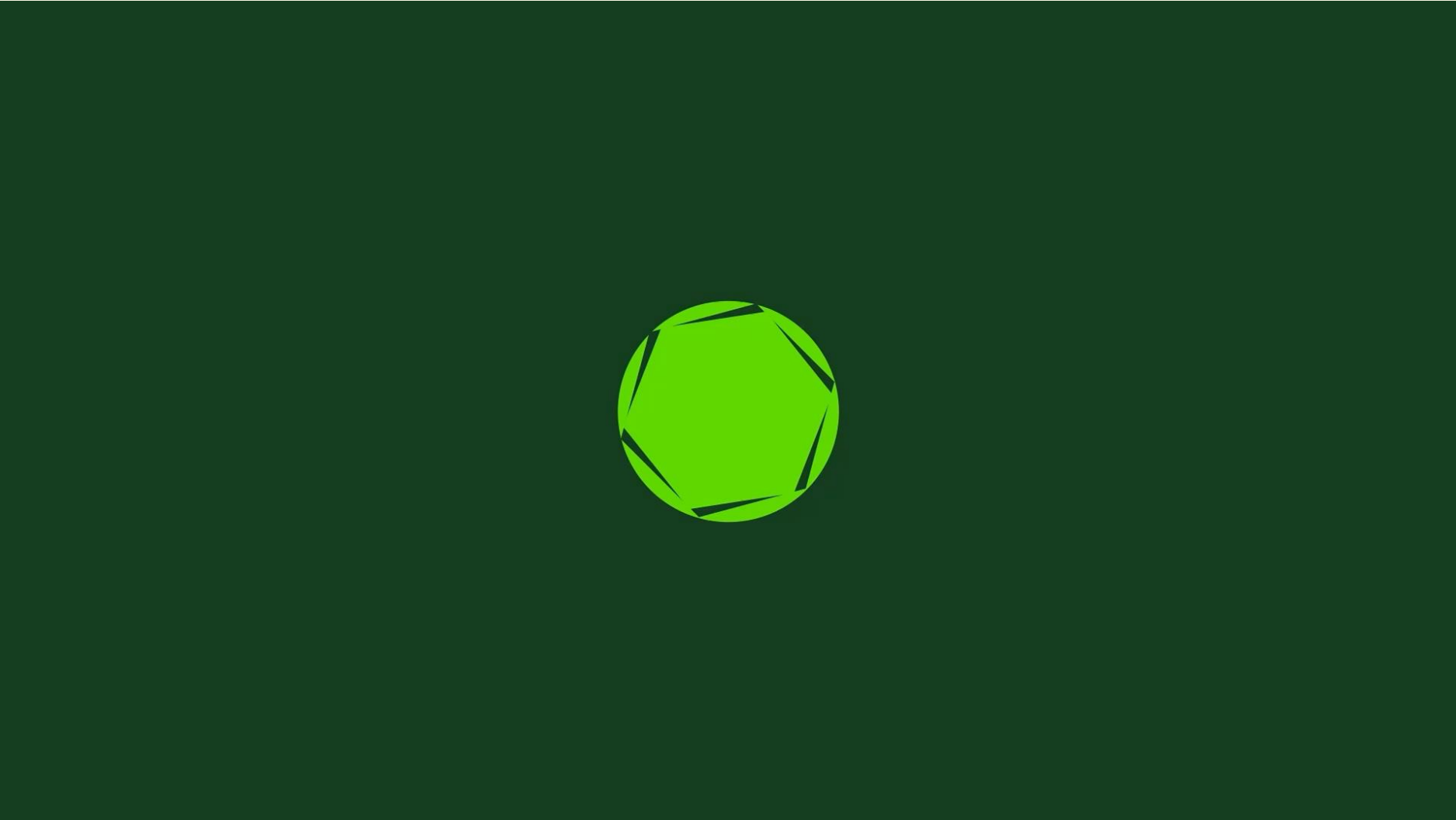
NRS
Nuclear Restoration
Services

What we will cover?

- Environment, Health, Safety, Security and Quality (EHSSQ)
- Site operations
- Current work programmes
- What else is happening on site
- Sustainability on the Winfrith site
- NRS socio-economic scheme



NRS site achievements



Environment, Health, Safety, Security and Quality (EHSSQ)

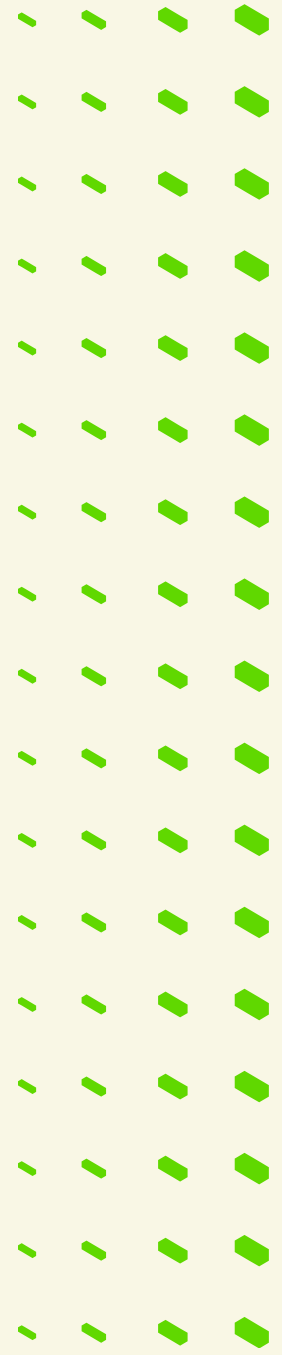
- Slightly elevated Tritium continues to be detected in River Win – subject to additional sampling and investigation
 - Near site sample points continue to show no increase to typical concentrations
 - Concentrations detected at single point at River Win are significantly below the Generalised Derived Limit
- Minor error detected in atmospheric discharge return documentation; negligible impact on reported data
- 0.1% of total activity incorrectly accounted for in a shipment of radioactive waste; no impact to the environment
 - Investigation underway and will be shared with Environment Agency
- Gaseous and liquid effluent discharges from Site remain well within permitted limits with no observable trends
- No significant issues with onsite safety and none raised via Health and Safety committee (HESAC) since last meeting

Regulatory Topics

- EA inspections covering Environmental Culture & Leadership, and Gaseous Discharges - no non-compliances noted
- ONR inspections covering security aspects and Asset Management – deemed adequate
- ONR IRR inspection focussing on use of X-Rays at SGHWR – deemed adequate

Current activities

- SGHWR reactor decommissioning
- DRAGON reactor decommissioning
- Waste - processing / consignment / legacy waste reduction
- Plant and Structures - ALES Operations and Decommissioning
- DASA – Autonomous security system trials
- Thorium Project – Encapsulation Trials
- Asset Care
 - ALES Fire Detection upgrade
 - Main Gate reconfiguration (design)
 - A544 roof / gutter repairs



Site Progress Summary

Winfrith Site – Target Progress 2025/26

Date: APRIL 2025

Critical Milestones



Milestone (Group Key Target)	Target Date	Forecast Date	Status	RAG
Winfrith SGHWR – Completion of Wire Saw trials	Nov 25	Sept 25	Procurement associated with Wire Saw trials remains on programme.	
Winfrith Dragon – Retrieve 0.64te of ILW	March 26	Feb 26	Ongoing	
Plant and Structures – Isolate and decontaminate Active Process Holding Tank	Dec 25	Nov 25	Currently producing cutting plans to create safe and secure access to the tanks.	
Waste Ops: Legacy waste reduction 22m ³ (39.6m ³ Stretch)	March 26	March 26	Ongoing	
Waste Ops: 8-off Consignments (11-off Stretch)	March 26	March 26	First consignment scheduled for May	
Asset Care : Installation of ALES Fire Detection System	Aug 25	Aug 25	SGP Business Case review May 25	
Asset Care : A544 South West Tower Access Gutter / Roof Repair	Feb 26	Nov 26	Awaiting revised quotation, SGP Business Case review May/June 25	

SGHWR decommissioning

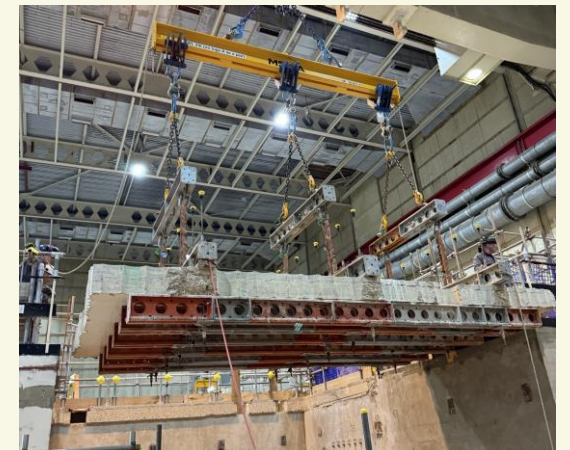
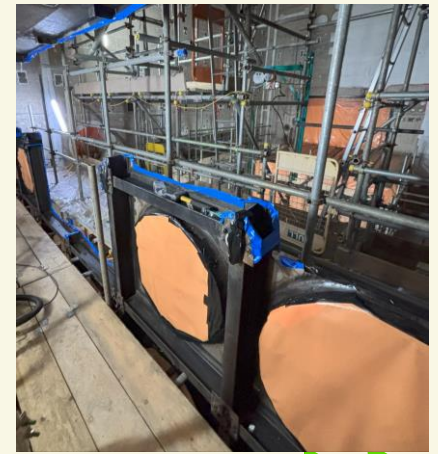
SGHWR

- Engineering effort currently focussed on underpinning design opportunities. Preparations are also underway for further trials to underpin the cutting methodology (including additional diamond wire saw trials and laser trials).
- Structural alterations continue within the main facility with further penetrations having been cut and floors removed to allow for plant installation for Core Segmentation
- Decommissioning has continued with the ongoing removal of the lutes panels in the North Suppression Pond, processing of asbestos contaminated mobile plant and waste processing and packing ready for disposal
- Building alterations have continued in A544 as part of the reconfiguration with a fire door moved, new walkway installed, additional internal fencing put up and the final infill section of the main floor platform commencing

Mini-MILWEP - (Modular ILW Encapsulation Plant)

- Mini-MILWEP - currently forecast to be delivered by the end of 2025.
- The external cladding for the building is complete, the Control Cabin and EC&I Cabins are in place, the internal shielded workstation has been installed and electrical installation is continuing.

Pictures - (i) Lutes panel removal N Suppression Pond, (ii) Mini-MILWEP Control and EC&I cabins in position (iii) Floor removal within main facility



Dragon reactor core decommissioning



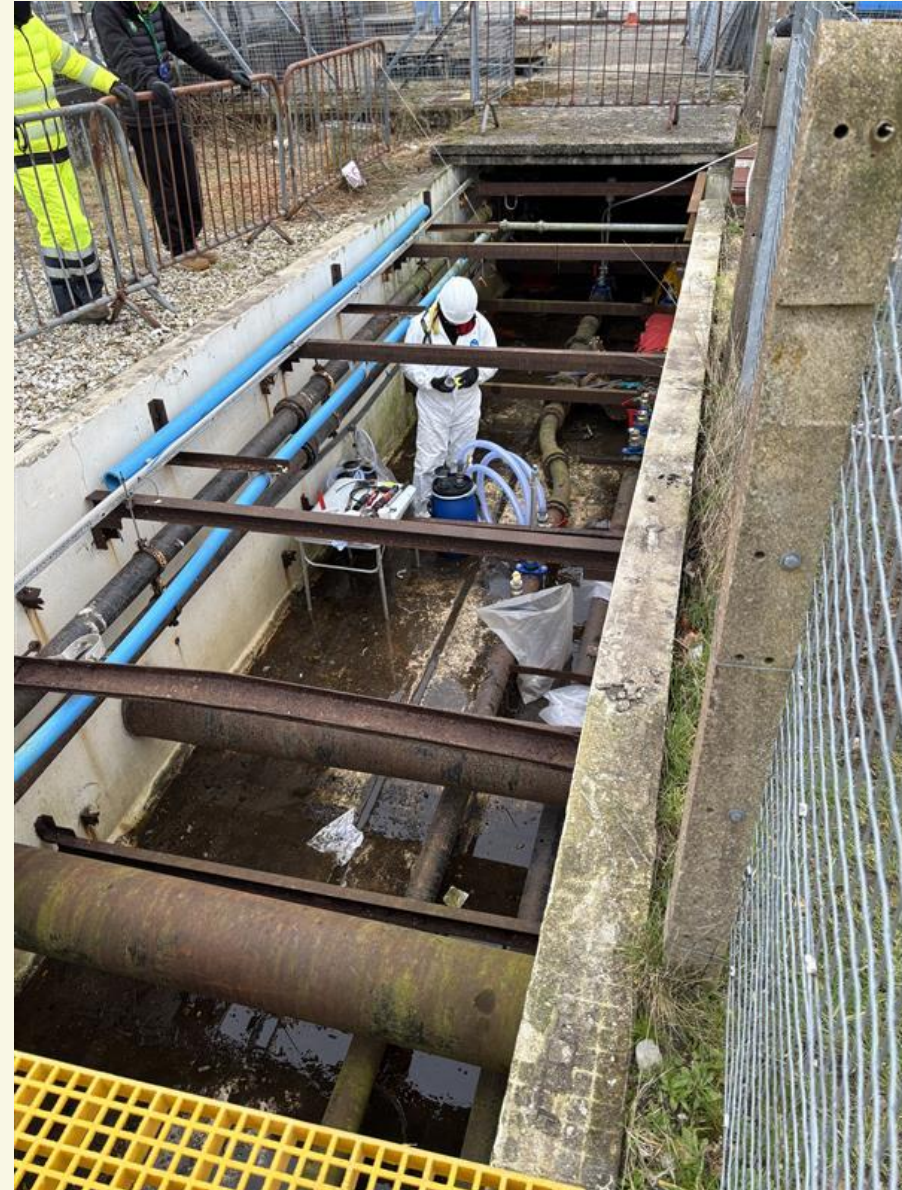
Dragon is currently in the process of remotely removing the core of the reactor using a robotic arm and laser cutter.

A separate presentation will follow on the agenda.



Plant and Structures (P&S)

- **A42/44 (old fire station and telephone exchange)**
- Demolition completed
- **A511 ALES** - Demolition completed
- **A51/52** - Foam filling and then removal of Alpha-contaminated pipe (pictured right)
- **Sea Pipeline Decommissioning** - Project currently paused due to funding reprioritisation.
- **Blacknoll Reservoir** - Pre-planning application for demolition has gone through process and full planning application is in preparation stage. Schedule for demolition will be subject to funding priorities but unlikely before Winter 2026.



What else is happening on site?

Recruitment

- Recruitment for 2025 under review
- Alignment to spending review outputs

Apprentices

- 3 apprentices completed April 2025 – now transferring to post (1 x electrical / 2 x mechanical from 2021 cohort)
- 1 x Project Management (Level 6 / degree) apprentice (joined 2024 / 4-year apprenticeship)
- 3 x Health Physics Monitor apprentice vacancies recruitment currently underway

Site visits

On February 14, 2025, South Dorset MP Lloyd Hatton visited Winfrith to gain an exclusive, first-hand look at the impressive progress being made in the site's decommissioning efforts.

10 graduates from various disciplines across the NRS fleet in a visit the Steam Generating Heavy Water Reactor (SGHWR).

On March 5th, 2025, we had the exciting opportunity to welcome five Paramedic Operations Officers from the South-Western Ambulance Service to our Winfrith site, to deep dive into our first aid arrangements and how we ensure we're ready for anything.



Demolitions

Saying Goodbye to the old Winfrith Fire Station, Telephone Exchange and SECC (A42/44) and the A51.1 Structures and Garages



February 2024 saw handover of the A4 Demolitions following successful execution of the scope despite the usual collection of unexpected events, ranging from the presence of newly identified hazardous substances to the suspected discovery of bats!

The team also managed to salvage some items of historical significance as the old Site Emergency Control Centre Maps are due to be displayed in the new Plant and Structures Conference Facility in A545.



DASA

Supplier Innovations are all deployed on site.

Work is ongoing between the suppliers and the Mitie Operators to iron out any issues that are presented.

The Mitie Operators are now working with the innovations running tests to ensure the various sensors, cameras and software are picking up and analysing people and objects entering the trial locations.



Mid-trial showcased with government bodies on 25th June 2025. The suppliers will demonstrate their innovation capabilities to a range of Government stakeholders.

The Mitie Operators and NDA are working with the CAA toward the permissions required to progress the trials to the more autonomous elements in terms of UAV flight.

Sustainability at Winfrith – Spring 2025

Solar hybrid generators

Solar hybrid generators have been installed to provide power to four projects operating at remote locations on site.

Each unit is equipped with 3kW of solar panels and 35kWh of battery which means that use of the diesel generator is not required 24/7.

For the period of 1st March to the end of April 2025 the use of these units have saved us ~£28,000 in diesel which equates to 48Te of CO₂ emissions.

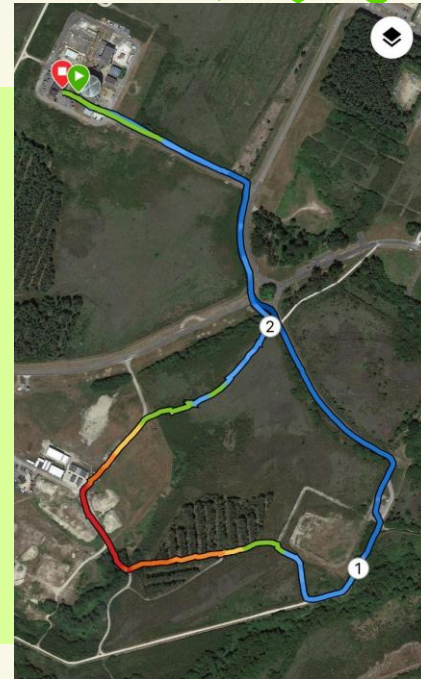
That's the equivalent of driving from Winfrith to Dounreay 141 times or 78 flights to New York!



Nature trails

The site sustainability team is currently mapping out a series of nature walking routes on site so staff can take a stroll at lunchtime and see the diverse array of plants and animals on site.

We are planning on three routes using existing pathways as well as mowing and maintaining less frequently used tracks.



On site staff activities

A team based at the Dragon reactor have been hard at work re-using surplus timber to construct several sturdy benches which have been placed around the site in support of the newly-established nature walks.

NRS soc-ec funding remains at

End of Financial Year 24/25

£1.1m spent across 12 NRS Sites.

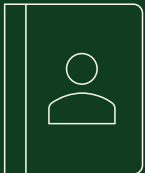
Winfrith funded projects = £114,274.46

Good Neighbour – 2 projects supported totalling £2,364.46

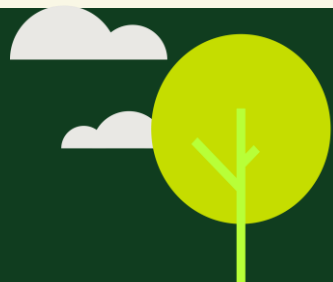
1 Medium project – Tumbledown totalling £85,000.

1 Multi year project – Dorset Wildlife Trust totalling £26,910.00

For further information please visit [NRS working with our communities - GOV.UK \(www.gov.uk\)](https://www.gov.uk)



- Good Neighbour applications for Harwell email: Bethany.Sear@nrservices.uk
- Applications over £2,000: email: jessica.dawson@nrservices.uk



Dorset Wildlife Trust - Heathland Heritage Traineeships

The Dorset Heathland Heritage Traineeships project provides training and work experience in the countryside management sector for six young people who are local to the NRS Winfrith area over a three-year period.

The project not only trains and nurtures new local people, who have currently been unable to gain employment in the sector, but it also addresses the local skills gap within the countryside sector, whilst helping to protect Purbecks iconic heathland heritage and support positive community engagement in the area.



Dorset Wildlife Trust - Heathland Heritage Traineeships

To date the project has achieved:

- The set up of 18 volunteering task for the local community.
- 900 hrs of volunteering time has been created.
- 4 trainees recruited – one which has entered full time employment after training.
- 30 different activities have been created to engage local community.



Any Questions?

