

Harwell Site Stakeholder Group (SSG) 4th November 2025

Gary Reid
Harwell and Winfrith Site Director



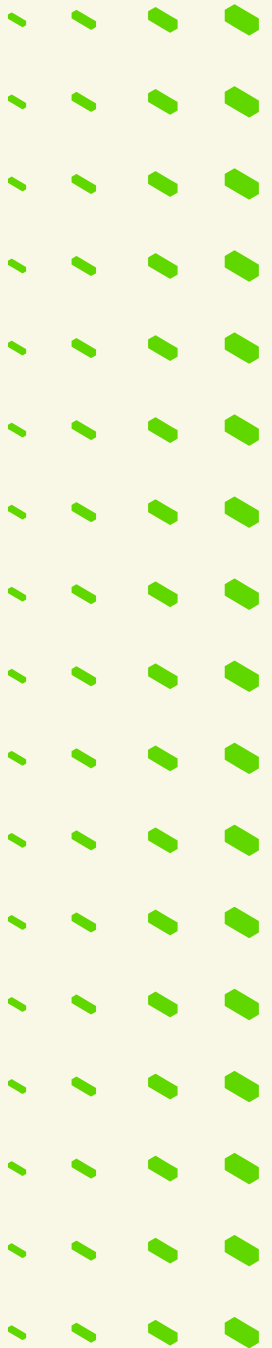
04/11/2025



NRS
Nuclear Restoration
Services

Harwell site – what we will cover

- Harwell 80th Anniversary
- Targets achieved FY25/26
- Environment, Health, Safety, Security and Quality (EHSSQ)
- Plans for FY26/27
- What is happening on-site
- Sustainability at Harwell
- NRS Socio-Economic Scheme



Harwell 80th Anniversary

This year marks 80 years Harwell – an incredible milestone.

Internally, a year-long programme of historical storytelling is underway, including a decade-by-decade blog series and additional features spotlighting Harwell's people, heritage, and lesser-known site histories.

Externally, we're pleased to say that ITV will be on campus and on the reactor site to film interviews and footage for a three-part documentary series to be released later in the year – covering the past, present and future of Harwell.



Targets achieved for FY 25/26

Completion on targets for FY25/26 including:



OFFICIAL

For all our futures

Harwell Site – Target Progress 2025/26

DATE: Mar 2026 Wk 4



Critical Milestones

Milestone (GKT = NDA Group Key Target, *Bonus related target)	Planned Date	Forecast Date	Status	RAG
GKT07 (Contribution): Transportation of Nuclear Material Transfers off Harwell Site - (Threshold 146 drums, On Target 319 drums, Stretch 384 drums)	Mar 2026	Mar 2026	Stretch Achieved	
GKT07 (Contribution): B462 RHILW retrievals. (Threshold 6.8te, On Target 7.38te, Stretch 8.2te)	Mar 2026	Mar 2026	Stretch Achieved.	
GKT07 (Contribution) B462 WEP Final Packages. (Threshold 110, on Target 120, Stretch 132)	Mar 2026	Mar 2026	Stretch Achieved	
OKT02 (Contribution): Waste Ops: Legacy Waste Reduction Volume (Threshold 240.84m ³ , On Target 296.58 m ³ , Stretch 302.58m ³)	Mar 2026	Mar 2026	Stretch Achieved	
OKT02 (Contribution): LAW/VLLW Consignments (JWMP). (Threshold 13, on Target 16, Stretch 17)	Mar 2026	Mar 2026	Stretch achieved	
OKT09 R&RF: B401.8 - Gate 5a Presented at PGB.	Oct 2025	Oct 2025	Complete	
OKT01 AIC: Replace Heat Pumps in B591.	Mar 2026	Mar 2026	Complete	
OKT01 AIC: B462 RADAR System Replacement (Phase 1).	Mar 2026	Mar 2026	Complete	
OKT05 Site Restoration: Preparation of Harwell Liquid Effluent Treatment Plant delicensing case ready for submission to ONR	Mar 2026	Mar 2026	Complete	
Site Operational Target: Maintenance Performance – Rad. 220.4 Glove Box Extract Filters to be Changed.	Mar 2026	Mar 2026	Complete	
Site Operational Target: Maintenance Performance – Non Rad. Complete Gas Main Replacement/Repairs to 462.28 Steam Boiler.	Dec 2025	Dec 2025	Complete	

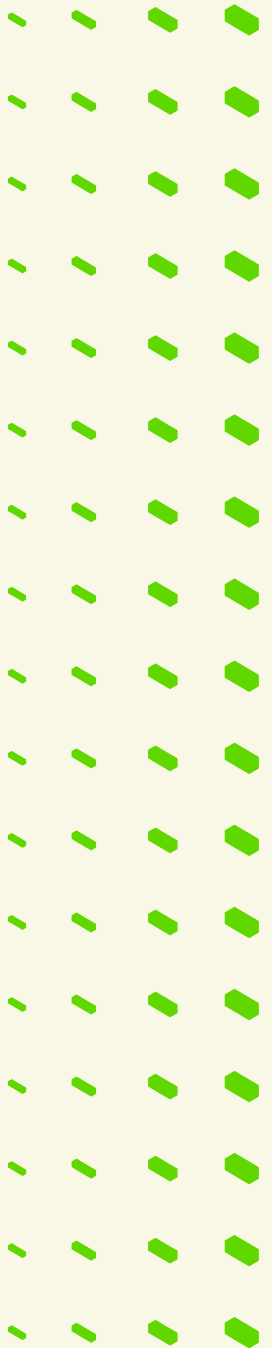
RAG KEY: Complete On Target Behind But Recoverable Will Be Missed

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

- Safety
 - TRIR remains at 0; no LTA in 1012 days
 - Engagement with ONR continues via regular KIT during the period and formal quarterly meetings (with all regulators)
- Environment
 - Discharges of radioactivity remain well below permitted levels with no observable trends
 - EA Inspections covering operation and management of the Groundwater Treatment Plant and Western Storage area were undertaken in January 2026 – no non-compliances noted
- Security
 - No significant compliance issues to report
 - Cybersecurity desktop exercise held in March 2026 – NDA, ONR and UKRA (UK Resilience Academy)
- Emergency Planning
 - Security exercise held in November – rated adequate
 - Carriage of Dangerous Goods exercise carried out in February 2026 – rated adequate

Plans for 2026/27

- **Continue with ILW Waste Retrievals. All standard Storage tubes will be completed this FY.**
- **Continue with Nuclear Material Moves. All CLD and CHILW Moves will be complete the FY leaving just Dragon Shipments Ongoing.**
- **Progress LETP and West Meashill delicensing cases in preparation for land handover to Campus.**
- **Begin receipt of 200+ empty ILW boxes into Harwell ILW Box store (HIBS)**



Project Rutherford / CNC Cessation:

- Project Rutherford is a major programme to reduce the Safety/Security Hazards at Harwell. To do this Harwell must complete:
 - Intermediate Level Waste (ILW) Retrievals and Drum Encapsulation
 - Export of Nuclear Material to Sellafield
 - The installation of additional physical security measures

On completion of these activities and with support and agreement from our Regulators (ONR), Harwell will transfer to new arrangements allowing release of the CNC team on the **31st of March 2027**.

Harwell will continue to have robust security arrangements led by our Civil G4S team supported by Thames Valley Police. Similar, to when power stations de-fuel and subsequently release CNC.

This marks a significant point in Harwell's decommissioning history as Harwell has had a continued armed police presence since 1955.

What are the benefits of the project?

- 1 A reduction in risk to the public by advancing decommissioning across the NRS Sites.
- 2 Security risk reduction of the Harwell site, which is situated on a science campus, at an accelerated rate by exporting Nuclear Material to Sellafield.
- 3 Government Collaboration Between ONR, NRS, Sellafield Ltd and Nuclear Waste Services (NWS).
- 4 A more efficient use of taxpayer's money as the £50m cost can be reabsorbed.



Using LiDAR at Harwell

LiDAR (Light Detection and Ranging) uses rapid laser pulses to capture millions of highly accurate data points, producing detailed 3D models of buildings, structures and environments.

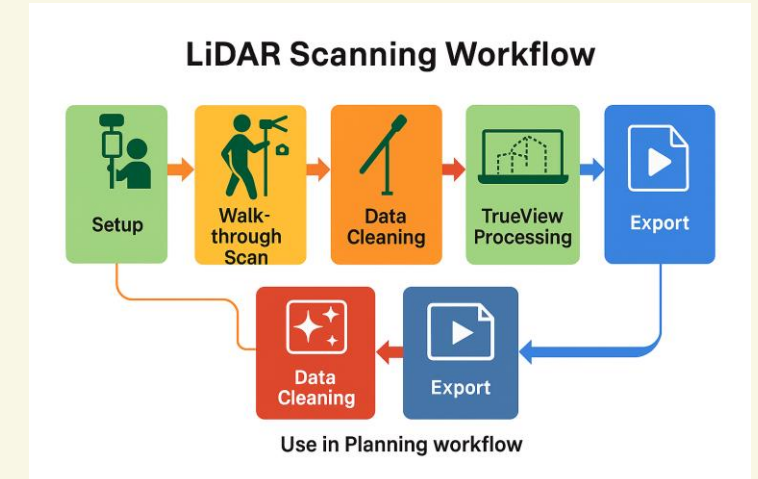
At Harwell, LiDAR is becoming an increasingly valuable tool for the R&RF Project Team. It enables us to:

- **Map complex structures** with far greater accuracy than traditional surveys
- **Identify hazards early**, supporting safer planning and decision-making
- **Visualise future work** using precise digital models
- **Reduce time on site** while improving survey quality
- **Support decommissioning planning** with robust, repeatable datasets

This technology is helping R&RF Projects to plan work with a level of precision that conventional methods simply unable to match.

How LiDAR Scanning Works

- The team uses the Hovermap STX, a lightweight handheld LiDAR scanner that captures millions of measurements while moving through a space, walking in looping, figure-of-eight patterns.
- Works indoors, outdoors and in areas without GPS - ideal for older or hard-to-reach buildings at Harwell.
- A GoPro records video alongside the laser scan to support colourisation and enhance the final 3D model.
- Scan data is uploaded to a laptop and cleaned to remove unwanted points and reduce visual noise.
- The refined dataset is processed in TrueView to create a smooth, fly-through model that can be exported as a video.
- The full workflow takes around **6–8 hours**, with the final digital model becoming a long-term resource for planning, scoping and hazard identification in decommissioning projects.



Watch LiDAR in action!



Legacy Waste

- **GKT Legacy Waste 25-26**
- YE target (m3) 241 Acceptable 297 Good 303 Excellent

Total 315 m3
(23 Consignments)

Excellent Year
Exceeding our targets



Nuclear Materials Transfers

- **6331** drums shipped to date. This is **95%** of the total. 2 waste streams complete this calendar year.
- Dragon fuel is now **71%** complete.
- Activity removed from Harwell site is **76%**
- Project completion is now tracking into 2028 due to delays outboarding Dragon fuel.
- More detail will be provided in separate information slides.



Remote Handled Intermediate Level Waste (RHILW) retrievals and Harwell (ILW) box store

Remote Handled Wastes

- Waste retrievals this year are at **8.8T** reaching the company stretch target. 63 of 65 arrays in 462.9 are now completed.
- The waste encapsulation plant has grouted **152** drums this year (exceeding the stretch target) and **496** of circa **1000** in total.
- Recovery of radium and affected wastes in 462.2 using Retrieval Machine 1 (RM1) and a radon abatement system is about to move to tube 2 of 16 to be cleared. 3 tubes contain the main radium material.
- Retrieval Machine 2 will be used for some early Post Operational Clear Out (POCO) work, and for longer cans after conversion.
- The additional POCO equipment continues to be developed to allow final tube cleaning after waste recoveries are completed.

Harwell ILW Box Store (HIBS)

- Work continues to allow the store to receive both empty and filled boxes. Empty boxes will start to arrive in April 2026, the first filled active box is expected 2027 from Winfrith.



Site Restoration

- **LETP & Sewage Farm**

- LETP reinstatement and Sewage Farm SuDs Lagoon construction project well advanced but had to pause in November due to high groundwater. Work to restart in May with completion in the summer.
- LETP reinstatement almost complete by the sustainable re-use of suitable materials from the lagoon construction under a Materials Management Plan.
- The LETP delicensing case and permit surrender application will be completed in 2026.

- **Groundwater Remediation**

- Discussions ongoing with the EA in relation to GWP closure case – further work continues by WSP on behalf of NRS.

- **West Meashill Area Land Release**

- Delicensing case and permit surrender application completed.

- **B540/B551 Area (land release area)**

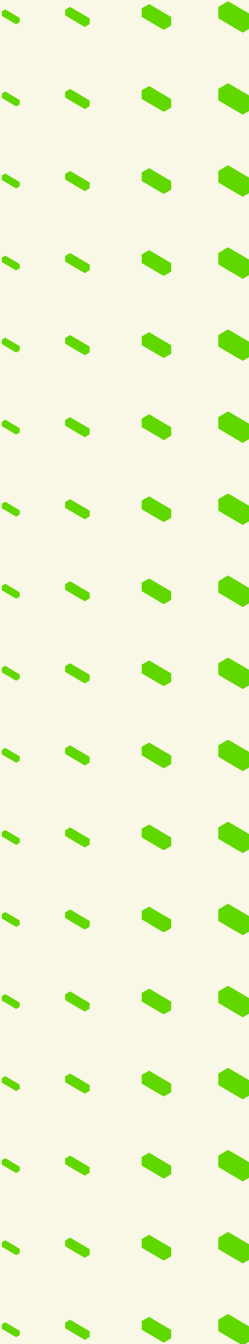
- Complex intrusive characterisation completed in earlier this year, data assessment and reporting is on-going.



LETP reinstatement (March 2026).

What else is happening on site

- New Canteen facilities for staff have now opened on site with great feedback.
- Litter picks are being organised by site on a rolling monthly basis to support our sustainability commitments.



Sustainability at Harwell

Harwell Sustainability Plan

- Sustainability Plan developed locally with help from the Central Sustainability Team.
- Covers all three pillars of sustainability with local relevance.
- Some key components:
 - Supporting **wellbeing** and **inclusivity**.
 - Integrating **Biodiversity Net Gain** into our processes.
 - Developing a local **sustainability governance system**.
- Elements to be included in site business planning.
- Site Sustainability Working Group continuing to meet – last meeting was 3rd March 2026.



Harwell Socio-economic support 2025-26



Harwell funded projects: £104,722.00 - A total of 5 projects supported in FY25/26



1 Project above £2,000 has been supported

SOFEA – £100,000.00

SOFEA enables young people at risk of becoming NEET to gain skills, training and hands-on work experience while supporting major food redistribution and community health programmes. Funding will allow the charity to reach more learners, schools and families through expanded larders, education and nutrition support.

4 Good Neighbour projects have been supported

Abingdon Scouts - £800.00 – Boating Equipment

Charlton Primary School - £700.00 – Pre School Mud Kitchen

Cuckhamsley Scouts - £1,650 – Replacement shipping container

Chilton Scouts - £1,622 - Camping Equipment

Any Questions?

