



DOUNREAY SITE RESTORATION LTD

Performance Report to DSG Site Restoration Sub Group - January 2023

For the period October – December 2022

DECOMMISSIONING AND HAZARD REDUCTION

We continue to make good progress against key targets for 2022/23:

- Installation of the water vapour nitrogen (WVN) system to enable passivation of the reactor vessel at PFR
- Dounreay cementation plant store extension: start the inactive commissioning of higher-activity waste drum store
- Restart of defueling DFR to enable dry storage of remaining inventory
- Phases 1, 2 and part of 3 of natural and depleted uranium material shipped to receiving site
- De-risking non-active drains optimisation projects construction phase
- Board approval in principle of the programme business case for the lifetime plan

Highlights:

- At the low-level waste disposal vaults, the first containers were sealed into place using grout to fill the void spaces.
- All major concrete pours are complete on the construction of Dounreay's new store extension. More than 15,000 tonnes of concrete and approximately 2,000 tonnes of reinforced steel have been used to reach this important milestone in the project.
- The internal cell walls of the post-irradiation examination (PIE) cave in D1217 are the latest areas of the redundant building to be decommissioned or

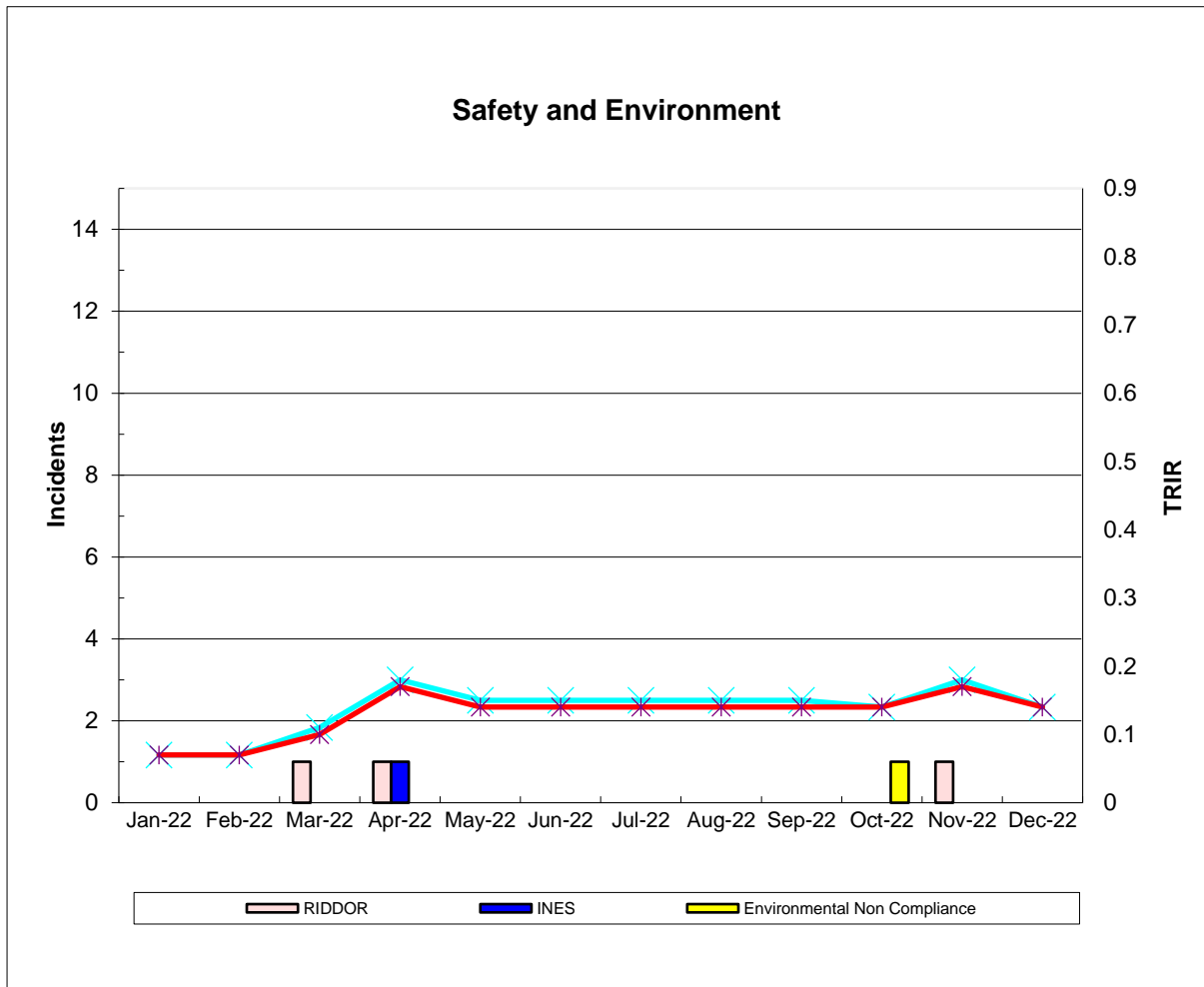
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demolished. During its operational lifetime, the facility examined fuel elements from DMTR, DFR and PFR.

- The decommissioning team cut the internal walls of the PIE cave into 56 blocks using diamond wire cutting and achieved the NDA business objective stretch target ahead of schedule. The diamond wire cutting generated 280 C-bins of low-level waste. The blocks, each weighing between 7 and 11 tonnes, will be placed into PacTec bags before being sentenced through the bulk demolition low-level waste route.
- We have resumed the consignment of legacy low-level containerised waste from D3110 to the D3100 low-level waste vaults, following months of work to create specific procedures for handling legacy waste and ensuring all containerised waste is compliant with waste acceptance conditions.
- A robot designed with help from Dounreay has been listed in Time Magazine's top 200 innovations of 2022. Robotics specialists from Manchester University, led by Professor Barry Lennox, worked with Jason Simpson and the D1200 decommissioning team to develop and test the robot, by carrying out a survey of the underground ventilation ducts.
- The 10-year-old FCA ventilation system is undergoing a programme of upgrades which includes replacement of the dampers that are used to control the flow of air through the system.

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HEALTH, SAFETY, ENVIRONMENT AND SECURITY



- There was one RIDDOR injury/OSHA TRIR in November 2022. A contractor’s operator stepped off a concrete sill at the foreshore fence, resulting in a fracture to their foot and a RIDDOR-specified injury. The injured party was deployed on light duties elsewhere by the contractor
- The Total Recordable Incident Rate excluding CNC increased from 0.14 in October 2022 to 0.18 in November 2022 due to the above injury. The TRIR excluding CNC in December 2022 was 0.14 as events 12 months ago moved out of the reporting period.
- SEPA issued an information notice relating to the sodium tank farm; this is part of their approach to overseeing restart. The request and timings are within the Dounreay plan of work.
- There was one environmental non-compliance confirmed in writing by SEPA during November 2022 with respect to following company procedural requirements in relation to actions in the event of abnormal readings being recorded on the statutory gaseous sampler check sheets. SEPA recorded DSRL as being non-compliant with standard condition A3.1.

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- Dounreay delivered the final actions from Regulatory Notice 02 issued in 2019 on time in December 2022.
- Dounreay CNC took delivery of 2 new ballistically protected vehicles designed to ensure CNC officers are fully equipped for the challenges they face whilst policing on nuclear sites.

RADIOACTIVE PARTICLES IN THE MARINE ENVIRONMENT

Total number of particles retrieved:

Location	Minor	Relevant	Significant	Notes
Dounreay foreshore	33	113	217	12 significant and 3 relevant particles in 2022
Sandside	261	37	0	4 minor particles in 2022
Murkle	3	0	0	No particles found in 2022 (Last 2016)
Strathy	0	0	0	No particles found in 2022 (Never)

LIFETIME PLAN

Construction of a new lifetime plan is complete and is now going through its internal checks and approvals. We remain on course to complete internal approvals by April 2023, and to begin its implementation from April 2024 onwards using rolling three-year near-term work plans.

Fit for Future is a parallel initiative to transform our processes, systems, people and structures to support the safe and efficient delivery of the lifetime plan from April 2024. We published the top tier of our new organisation structure and engaged extensively with teams across the site through a series of workshops looking at how each function integrates with the new programmes model. Mark Rouse temporarily assumed leadership of the FFF team, replacing William Lindsay who left Dounreay.

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Work continues across the legal, financial, commercial, people, communication and regulatory workstreams to join together Dounreay and Magnox, and the programme is on track for successful completion by 1 April 2023.

The site licence and all the permits/licences transfer applications have been submitted, other than:

- Transport Operator Licence, with an approximate eight-week lead time in the process of being prepared for submission the name of Magnox Limited during early January 2023.
- NatureScot (previously Scottish Natural Heritage) Licences, with an approximate ten-day lead time to be submitted in the name of Magnox Limited in January 2023 (the normal application time).

TUPE consultations and interactions are progressing well and the letter from Magnox Limited to DSRL employees will be issued by early February 2023. Enhanced communication will be provided prior to the issue of this letter. Supply chain contracts are currently being novated, where appropriate.

PEOPLE

- Seven newly-qualified apprentices received their indenture certificates from MP Jamie Stone and Dounreay MD Mark Rouse at the annual event in Thurso.
- Dounreay's Information and Knowledge Manager, James Gunn, presented a paper at the 18th International Congress of the International Committee for the Conservation of the Industrial Heritage (TICCIH). It was held in the University of Quebec and Montreal and attended by over 300 people from around the world.
- OCS's Dounreay site manager Davie Mowat won the OCS internal award for outstanding citizen. The award acknowledges his contribution to the local community during the pandemic
- Innovation manager Gordon Tait attended a meeting on laser-cutting technology in Madrid as a member of the expert group providing peer support to the project.

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January 2023

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