

Page 4

DFR

Improvements to the ion exchange plant that forms part of the liquid waste treatment process are on course for completion in February. Subject to regulatory approvals, the improvements will allow active commissioning of the plant to resume.

A large, remotely-operated tool for the removal of breeder from inside the reactor was moved successfully into place.



PFR

The sixth load of items wetted with sodium-potassium liquid metal was cleansed using water vapour nitrogen inside the sodium inventory disposal plant.

A blockage in a transfer line held up the emptying of the sodium tank farm.

Cleaning of liquid metal from components at Janetstown was completed. The facility was

FUEL CYCLE AREA

Decontamination started of the glass column removed from the analytical laboratory to start to remove the ground floor section of the glovebox.

Concrete removal continued in the amber area of the uranium recovery plant, with six plinths now remaining.

The north side control panels on the first floor of the research reactor fuel reprocessing plant were stripped out. Removal of debris from the pond continued.

Clean-out of cell line 1-8 was completed in the D1200 laboratory.

Size reduction started using plasma cutting of the internals in the south side cell of the post-irradiation examination facility.

The contents of the eighth drum of breeder material from DFR were deacid.

Mechanical installation started on the D1209 ventilation replacement.



Monthly Performance Report- December 2008

SHAFT

Paperwork preparations continued for water sample of urea levels to detect inter-chemistry changes in the shaft water can be detected at depth. A "drawdown test" is planned to understand the hydraulic conditions in the shaft.

Mock-up work at Janetstown of the retrieval processing line continued at Janetstown, with modification of the control system.



WASTE MANAGEMENT

A workshop was held as part of a review of all wastes at Dounreay, leading to the preparation of a consultation document for those wastes where realistic options were identified.

HEALTH, SAFETY & ENVIRONMENT

A minor hand contamination case was dealt with successfully by the occupational health department.

Workers decommissioning the

focused on cardiac risk factors, smoking cessation, alcohol, diet, exercise, stress and cholesterol.

DSRL is involved in a benchmarking exercise with other NDA sites in Scotland, covering all aspects of environment management systems and communication with SEPA.

GENERAL

Stephen White, chairman of DSRL, was awarded an OBE in the Queen's New Year Honours.

Senior managers attended the quarterly meeting of Dounreay Stakeholder Group on December 10 to discuss decommissioning progress.

The Nuclear Decommissioning Authority announced on December 8 its competition timetable for DSRL. The successful bidder is due to be announced in late 2010.

Strong winds caused minor damage to property around December 19. The highest recorded speed was 95 mph.

12/08 PERFORMANCE



Dounreay Site
Restoration Ltd

Site clean-up performance report for
December 2008

www.dounreay.com

Plasma arc cutting in D1217

A decommissioning team is pioneering the use of remotely-operated plasma-arc industrial cutting tools in a controlled area at Dounreay.

The process is being used in the post irradiation examination facility in Dounreay's fuel cycle area.

The facility contains two large cells, where items were brought for examination after being irradiated in the reactors. The cells contain heavy duty steel benches 22 metres long and 2 metres wide which must be cut up before they can be disposed of as intermediate level waste.

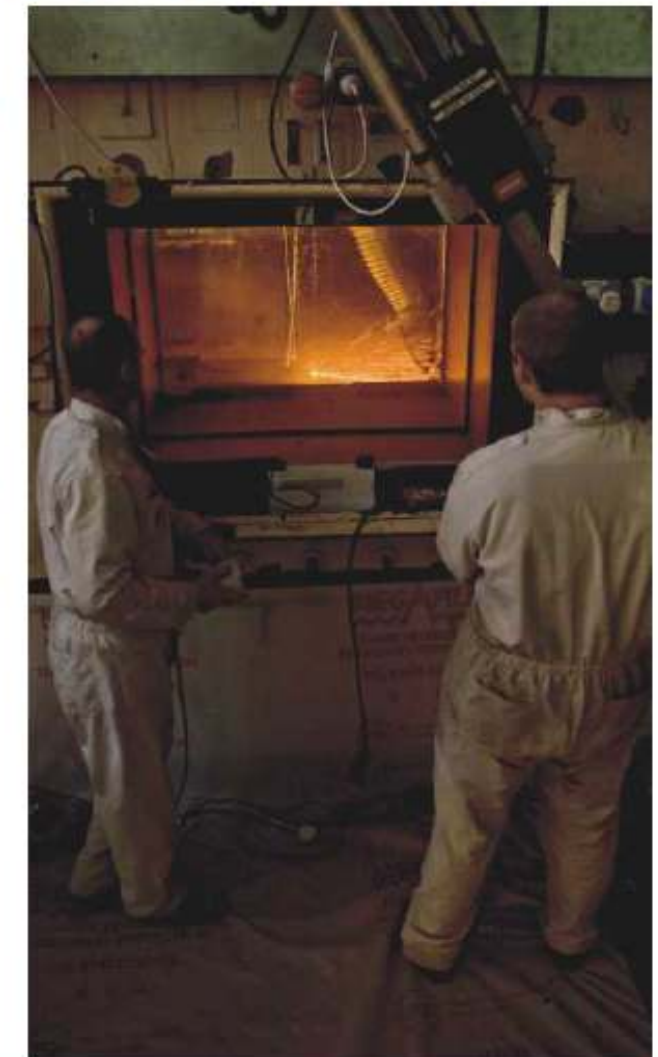
The tool is operated by workers using the in-cell manipulator arms.

DSRL project manager Gordon Tait is impressed by the performance of the plasma-arc cutters.

"We had been using grinders to take the benches apart, but it was very slow going," he explained. "So we tried plasma instead. We had to upgrade the ventilation because it produces gases, but it has made a real difference.

"During inactive trials of the plasma-arc cutters, we found it could slice through the thick steel plates much faster than conventional cutting tools."

The clean up of the cells is due to be completed by 2010.



194 months until shutdown

PROGRAMME PERFORMANCE REPORT

December 2008

PROGRAMME DELIVERY

Year-to-date	0.94
Year-end forecast	0.98

Schedule Performance Index (SPI)

Year-to-date	1.03
Year-end forecast	1.03

Cost Performance Index (CPI)

Year-to-date	£218 million
Year-end maximum forecast for project delivery	£425 million

Performance Based Incentives (PBI)

Year-to-date	134 tonnes
Year-end forecast	116 tonnes

PRODUCTION

December 2008 - 2009	69 drums
	243 drums
	3193 drums
	427 drums

Empty waste removed from site

Low-level waste processed for disposal

HEALTH & SAFETY

Number of events on international scale	0
Number of events on national scale	0

Average radiation dose (mSv) per worker per year to DSSL staff

0.10 mSv	0
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Average radiation dose (mSv) per year to DSSL staff

1.96 mSv	0
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Average radiation dose (mSv) per year to non-DSSL staff

0.08 mSv	0
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Average radiation dose (mSv) per year to non-DSSL staff

2.03 mSv	0
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Number of lost Time Incidents (LTI)

0	0
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Total Reportable Incident Rate (TRIR) per 1000 person hours

0.21	0
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Hours worked since last DAC

500,000	0
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Events reported to regulator

0	0
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Radiological discharge as proportion of authorisation

10,740 kg	0 kg
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Amount of paper recycled

65,500 kg	2,700 kg
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Amount of cardboard recycled

6,180 kg	0
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Parties received from local beaches

953.6	1155
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PEOPLE

Sub-contractors (number of people field)



A versatile remotely-operated machine that will cut the heat floor of the sphere. It is bolted onto the top of the retrieval cell. The retrieval cell is a highly engineered tool that will reach down inside the reactor vessel and remove the remaining breeder elements. The tools will be used to remove each BTT element from the reactor core. Many of the elements are expected to be warped and distorted or being shipped over to Cadmus and installed in the sphere. Retrieving the breeder elements is expected to begin in 2012, once the bulk liquid metal coolant has been destroyed, and will take an estimated two to three years to complete.

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Total = £17,500



UKAEA donates £2500 to Dounreay Communities Fund for each month without a Lost Time Accident (LTA)