01/10 PERFORMANCE



Site clean-up performance report for **January 2010**

www.dounreay.com

Third tank to go

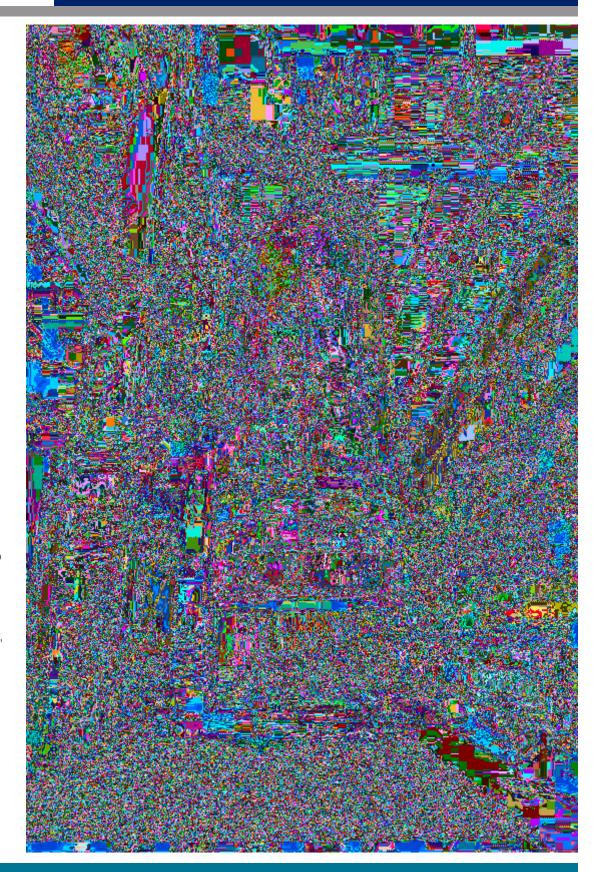
Preparations for the removal and clean-out of the third of the "dirty dump tanks" got underway at the Prototype Fast Reactor.

The large cylinder was isolated and disconnected from its support structures, ready to be hoisted out.

Once an integral part of the heat transfer system, two of the four metal tanks have already been safely removed from the redundant plant. The solidified sodium, which resembles pink putty, is then dug out using high powered chisels ready for size reduction and disposal.

Three of the tanks formed part of the reactors protection system, where sodium from the secondary circuits could be dumped in case of emergency and the fourth and largest tank was part of the system that cleaned and filtered the sodium before it was pumped back into the secondary sodium circuit.

Removal of all four tanks is expected to be complete by May this year, paving the way for the next phase of stripping out the former reactor building.





months until shutdown

Monthly Performance Report- January 2010 Page 2 **Monthly Performance Report**- January 2010 Page 3



PROGRAMME PERFORMANCE REPORT

January 2010

PROGRAMME DELIVERY

Schedi	ule Per	formance	Index	(SPI)
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Year to-date	Year-end forecast	
0.97	0.99	
+ CDI recovers work not call to a control out ancient the arrived NDA pelectula		

Cost Performance Index (CPI)	
Year to-date	Year

1.10

January

11.14tonnes

452 drums

0.43

3,440,000

0.09 mSv

0.09 mSv

5,557 kg

11,720 kg

3,383 kg

Performance Based Incentives (PBI)

Year to-date earned	Year-end maximum forecast
£3.48 million	£4.87 million

PRODUCTION

1.12

Exempt waste removed from site:

Low-level waste processed for disposal:

Raffinate liquor converted to solid

53 drums **515** drums

0

101,000 kg

18,133 kg

28

end forecast

HEALTH & SAFETY

Number of reportable radiological events:

Number of events on International Nuclear Event Scale:

Number of Lost Time Accidents (LTA):

Total Recordable Incident Rate:

RIDDOR reportable occurrences:

Hours worked since last LTA:

Average radiation dose

Average radiation dose to non-DSRL workforce:

ENVIRONMENT

Events reported to regulator:

Amount of paper recycled:

Amount of metal recycled:

Amount of cardboard recycled:

Particles recovered from local beaches:

PEOPLE

Full time DSRL staff:

Part time DSRL staff:

Contractor staff:

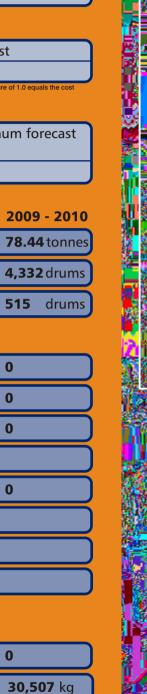
Gate-held passes (infrequent users):

909

61

136

998



An underwater robotic arm used in the oil and gas industry will be helping Dounreay workers clean out radioactive cells.

The manipulator will segregate and package up low and intermediate level waste removed from inside concrete cells as the clean-up of the materials test reactor reprocessing plant gathers pace.

The arm, a high-tech device made from titanium, sits in a dedicated stainless steel enclosure surrounded in lead shielding.

DSRL senior project manager Tom Johnston said the waste packing process involved extensive development and design work.

"This waste handling and consignment system is a key step of the bespoke integrated waste management process which has been designed to safely remove the waste materials from the cells, while keeping the doses to workers as low as possible," he said.

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



Total = £25,000

PFR

A rem reactd diagri of the signifi remail

The fir

from t

vesse

proce

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plant

72kg

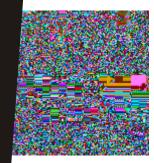
packa

FUE

ra inspected the ack, plenum and With the exception I, there are no bunts of sodium he vessel.

> batches of liquor temporary storage uccessfully

nventory disposal target of destroying i metal from waste



YCLE AREA

Dyna testing of the new ventil n fans was completed ully as part of the succe on of the new D1209 install n system. ventila

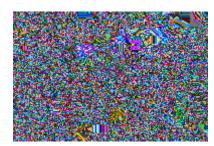


Emptying of the remote-handled intermediate level waste (RHILW) drum store resumed, with another 30 drums removed.

Decommissioning started of the redundant overhead crane in the D1207 area.

DFR

The liquid metal destruction plant successfully completed its 75th batch, earning the site a performance-based incentive from the NDA, prior to a planned shutdown for maintenance.



Pond liquor removal commenced with discharges at limit of detection following ion exchange treatment. Lowering pond levels in a controlled manner allows essential pond wall dose rate measurements to be carried out in support of the decommissioning strategy.



SHAFT AND SILO

Work started on the installation of a new low-active drain at the site of the proposed construction works.

WASTE

The Scottish Government launched a consultation on its policy for higher-activity waste. The outcome will affect the management of Dounreay's intermediate-level waste in the long-term.

SAFETY & ENVIRONMENT

At the end of January, the site had recorded 338 days, or 3.4 million man-hours, without a losttime accident.

The site-wide safety challenge to complete 60 days without an electrical non-compliance continued, with a number of items found to be outwith their PAT date.

DSRL has been asked to make some minor revisions and modifications to its application to the Scottish Environment Protection Agency for a new authorisation under the Radioactive Substances Act.

DSRL sought a variation to its permit from the Scottish **Environment Protection Agency** governing the use of cement in a waste processing plant.

GENERAL

The Nuclear Decommissioning Authority announced funding for Dounreay would be capped at £150 million a year from 2011 onwards. This is how much bidders in the NDA competition for Dounreay will be expected to complete its decommissioning

The Nuclear Decommissioning Authority published its 2010 business plan for consultation. This sets out the key goals for Dounreay in the next 12 months.

A number of organisations took part in a workshop looking at Dounreay's heritage as part of the consultation phase of the site's heritage strategy.

Kenny Ferrera of CH2MHILL joined the senior management team as head of programme office. AMEC's Michael Fitt was named as the head of the site's construction team.

Kevin Thomas, group business development director of Babcock International Group, toured DFR with Paul

Barrett as part of a familiarisation



Site closure programme at-a-glance



Annual funding limits set by NDA			
2009/10	2010/11	2011/12	
(confirmed)	(confirmed)	(provisional)	
£156.7 million	£166 million	£150 million	

Date	Milestone	Cumulative cost
2010	MTR reprocessing plant decommissioned	
2013	Bulk liquid metal destroyed at DFR	
2014	LLW disposal site opens	
2016	Breeder removed from DFR	
2018	High-active liquor tanks emptied	MIL
2021	Fast reactor reprocession pla decommissione	
2023	Shaft and Silve 10 201	
2025	A to be transities cleared	Interim End State - £2.6 bn
2027	Low Ver waste site capped	
2057	Intermediate-level waste removed	
2078	Fuel and waste stores cleared	
2294	All land available for re-use	End State - £3.2 bn

NDA competition for **DSRL** · Industry days for bidders

- Feb/Mar 2010

Tendering - Autumn 2010

· Preferred bidder - Spring 2011

New company takes over DSRL - Autumn 2011





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Contact Dounreay Communications at: communications@dounreay.com or telephone: 01847 802121. For more information, visit: www.dounreay.com on the worldwide web and at Traill House, 7 Olrig Street, Thurso. (open 9am to 5pm, Monday to Friday).