

01/09 PERFORMANCE



Dounreay Site
Restoration Ltd

Site clean-up performance report for
January 2009

www.dounreay.com

Approval granted for low level disposal vaults

Highland Council's area planning committee has approved a £110 million investment in new facilities for managing Dounreay's low-level radioactive waste.

The disposal vaults, which will be constructed adjacent to the site, are needed for the safe, long-term management of up to 175,000 cubic metres of low-level radioactive waste from the decommissioning of the fast reactor experiment at Dounreay. The project is expected to create 100 jobs during construction and 12 during operation.

The decision, which is subject to final approval by Scottish Ministers, is the culmination of a decade of research, development and public consultation on the options for dealing with this type of waste at Dounreay.

"Waste is the product of decommissioning and its management to the highest standards of safety and environmental protection is an essential part of closing down this site," explained DSRL managing director Simon Middlemas.

"Low-level waste is by far the biggest volume of waste we have to deal with, so I am very pleased the council has approved our plans for a modern, engineered facility that can take this waste safely and allow the decommissioning of the site to continue.

"DSRL is committed to ensuring

that this facility is constructed with minimum impact."

Construction work is scheduled to begin in 2011. Subject to other regulatory consent, the facility is scheduled to operate from 2014 until decommissioning is complete in 2025, when the underground facility will be capped and the surface restored.



1 9 3 months until shutdown



PROGRAMME PERFORMANCE REPORT

January 2009

PROGRAMME DELIVERY

Schedule Performance Index (SPI)

Year to-date	Year-end forecast
0.91	0.95

* SPI measures work actually carried out against the agreed NDA schedule.

Cost Performance Index (CPI)

Year to-date	Year-end forecast
1.03	1.04

* CPI measures the cost of work actually carried out against the forecast agreed with the NDA. A figure of 1.0 equals the cost agreed - greater than one reflects efficiency gains.

Performance Based Incentives (PBI)

Year to-date	Year-end maximum forecast for project delivery
£2.359 million	£4.80 million

* PBI are agreed milestones with NDA which result in payment of fee.

PRODUCTION

	January	2008 - 2009
Exempt waste removed from site:	0 tonnes	116 tonnes
Low-level waste processed for disposal:	458 drums	3651 drums
Raffinate liquor converted to solid intermediate-level waste:	50 drums	477 drums

HEALTH & SAFETY

Number of reportable radiological events:	0	0
Number of events on International Nuclear Event Scale:	0	0
Average radiation dose (calendar year to date) to DSRL staff:	0.12 mSv	
Maximum individual radiation dose (calendar year to date) to DSRL staff:	2.32 mSv	
Average radiation dose (calendar year to date) to non-DSRL staff:	0.09 mSv	
Maximum individual radiation dose (in calendar year to date) to non-DSRL staff:	2.29 mSv	
Number of Lost Time Accidents:	0	3
Total Recordable Incident Rate: <small>Compares injury and illness rates per 20,000 hours worked</small>	0.21	
RIDDOR reportable occurrences:	0	5
Hours worked since last LTA:	810,000	

ENVIRONMENT

Events reported to regulator:	0	0
Radiological discharges as proportion of authorisation:	Reported quarterly on the website	
Amount of paper recycled:	0 kg	10,740 kg
Amount of metal recycled:	26,490 kg	89,990 kg
Amount of cardboard recycled:	0 kg	6,180 kg
Particles recovered from local beaches:	0	

PEOPLE

DSRL (full time equivalents):	954
Sub-contractors (number of passes held):	1141



The first pieces of two 30 metre high ventilation stacks arrived at Dounreay in January. They were transported by road from

nearby Janetstown where local company JGC has been fabricating a new ventilation system needed to decommission more than a

dozen of the most hazardous facilities in the Fuel Cycle Area. The new system will extract filtered air from the complex of buildings that includes old

reprocessing plants, chemical works, waste and fuel stores. The £7.4 million project will replace the existing ventilation system which dates from the

1950s and is incapable of supporting the phased clean-out and demolition of these plants.

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



Total = £17,500

PFR

Drilling of the reactor roof has commenced at PFR.

The strip out of redundant electrical cabling has been completed, ahead of schedule and under budget.

FUEL CYCLE AREA

The first pieces of two 30 metre high ventilation stacks arrived at Dounreay in January. The £7.4 million project will replace the FCA's existing ventilation system which dates from the 1950s.



Demolition of the experimental criticality laboratory has begun with the removal of the roof.



Scanning of the fuel pond in the research reactor fuel reprocessing plant using a gamma imaging camera has started.

The Dounreay materials reactor complex achieved eleven years without a lost time accident on 14 January.



WASTE MANAGEMENT

Highland Council's area planning committee conditionally approved an application by DSRL to build a series of disposal vaults adjacent to the site.



HEALTH, SAFETY & ENVIRONMENT

Dounreay's detailed emergency planning zone is being reduced from 5km to 1.15km, to reflect the lowering of the radiological hazard at Dounreay through progressive decommissioning. The emergency planning zone around the neighbouring Vulcan site is unaffected.

Johnson Controls have been awarded a Bronze Award from the National Recycling Stars award scheme for the recycling scheme which they manage at Dounreay.



Tenders have been received for the summer offshore particles retrieval work.



GENERAL

Stuart Smith, who previously worked at NRTE Vulcan, joined DSRL as the new head of Security.



Tony Trayner took over as head of the new build unit at Dounreay, succeeding **Colin McColm** who now leads the overhaul of the ion exchange plant at DFR.

On 26 January, **Nuvia staff** who were based in Craigmore House at Dounreay moved to their new offices in Thurso.



VISITS

Delegates from 12 countries visited Dounreay on 27 and 29 January as part of an initiative by the International Atomic Energy Agency. They are in Scotland to take part in the first research co-ordination meeting of an IAEA

group set up to share best practice in the management and organisation of decommissioning. Experts in decommissioning from Germany, Norway, Ukraine, Denmark, Hungary, Czech Republic, Russia, Slovakia, Lithuania, Finland, South Africa and UK attended the five-day meeting.

