

10/09 PERFORMANCE



Dounreay Site
Restoration Ltd

Site clean-up performance report for
October 2009

www.dounreay.com

Hazard shrinks

More than 200 households near Dounreay are now officially at less risk from a serious accident than at any time in the history of the site.

They have been removed from the site's emergency planning zone following a detailed technical assessment of the hazards still remaining at the site.

The cores of the three reactors at the site are all empty and the amount of liquid metal in the cooling circuits of the fast reactors has reduced from almost 1700 tonnes to less than 50 tonnes.

An assessment of credible accident scenarios around the remaining hazards, including the liquors from reprocessing of nuclear fuel, found that a 5km emergency planning zone was no longer necessary.

A reduction in the planning zone to just over 1km has been accepted by the Nuclear Installations Inspectorate of the Health and Safety Executive, who formally notified Highland Council as the body responsible for all emergency planning in the region. Highland Council has amended its Dounreay off-site emergency plan.

Dounreay's emergency planning manager Colin Macdonald wrote to households in October to advise them of the change.

A separate emergency planning zone exists for the nuclear site at Vulcan and this is unaffected by the reduction in the arrangements for Dounreay.



Dounreay will continue to rehearse its emergency arrangements with regular exercises, such as this one involving a mock accident at DFR.

1 8 4 months until shutdown



PROGRAMME PERFORMANCE REPORT

October 2009

PROGRAMME DELIVERY

Schedule Performance Index (SPI)

Year to-date	Year-end forecast
0.95	1.00

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

Cost Performance Index (CPI)

Year to-date	Year-end forecast
1.14	1.08

* 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 earned	Year-end maximum forecast
£1,306,750	£4.80 million

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

PRODUCTION

Exempt waste removed from site:

October	2009 - 2010
9.34 tonnes	34.34 tonnes

Low-level waste processed for disposal:

505 drums	3171 drums
------------------	-------------------

Raffinate liquor converted to solid intermediate-level waste:

20 drums	377 drums
-----------------	------------------

HEALTH & SAFETY

Number of reportable radiological events:

0	0
----------	----------

Number of events on International Nuclear Event Scale:

0	0
----------	----------

Number of Lost Time Accidents (LTA):

0	0
----------	----------

Total Recordable Incident Rate:

0.37

Compares injury and illness rates per 20,000 hours worked

RIDDOR reportable occurrences:

0	0
----------	----------

Hours worked since last LTA:

2,500,000

Average radiation dose to DSRL workforce:

0.07 mSv

Average radiation dose to non-DSRL workforce:

0.05 mSv

Statist doses are one month behind, due to processing time.

ENVIRONMENT

Events reported to regulator:

0	0
----------	----------

Amount of paper recycled:

0 kg	22,830 kg
-------------	------------------

Amount of metal recycled:

0 kg	48,200 kg
-------------	------------------

Amount of cardboard recycled:

0 kg	10,410 kg
-------------	------------------

Particles recovered from local beaches:

0	16
----------	-----------

PEOPLE

Full time DSRL staff:

974

Part time DSRL staff:

66

Contractor staff:

988

Gate-held passes (infrequent users):

128



The world's deepest nuclear clean-up job won another top award in October for engineering excellence.

Judges in this year's Scottish Saltire Awards named the shaft isolation project at Dounreay as one of the country's best examples of civil engineering.

It was second only to the construction of a new road bridge across the River Forth at Kincardine.

And it takes to four the number of top awards won by the team behind the £290 million project.

Some of the most hazardous radioactive waste from Britain's abandoned fast reactor experiment has lain submerged in water for 50 years in the 65-metre deep vertical shaft beneath Dounreay.

Judges in the annual Saltire Awards paid tribute to an

"exceptionally high level of initiative, teamwork and skill shown in the successful developing and execution of this strategic, complex, project in a hostile and challenging environment".

The main contractor for shaft isolation was BAM Ritchies. Halcrow Group Ltd was consulting engineer.

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



Total = £17,500

Dounreay Fast Reactor

The number of batches of liquid metal successfully destroyed reached 59 by the end of October. The plant is on course to reach its target for the financial year of 75 batches by January.



Prototype Fast Reactor

Modifications to the ventilation system, a requirement of an improvement notice from SEPA, were completed. This involved connection of the combined vent system into fan 6 ductwork and installation of statutory sampling equipment for particulate and tritium. This completes the PBI for the ventilation upgrade project.

The sodium dig-out and size reduction of "dirty dump tank 1" was successfully completed.



Three active runs were completed in the sodium inventory disposal plant during the period, bringing the cumulative total of alkali metal processed for the year to 25kg.

The removal of the hazardous asbestos and PVC cables from under the reactor floor continues to make excellent progress. The total length of cable removed in October was approximately

7km, bringing the total cable length removed in the year to 11km. Good teamwork and co-operation between DSRL and the sub-contractor has maintained high productivity and momentum towards safely meeting the programme delivery milestones.

Fuel Cycle Area

Worker access to the south cell was achieved in the post-irradiation examination facility, known as D1217, enabling the removal of X-ray equipment.



Five plutonium gloveboxes were dismantled in the head end development area known as D1215.

Removal of redundant ventilation was completed successfully in the low-level waste area known as D1207.

The ventilation stack and fan were removed from the redundant building at the historic low-level waste pits.

In the former uranium recovery plant, ceiling and floor decontamination was completed in the Amber Area. Wall decommissioning was in progress.

A new breathing air system was commissioned in the former fast reactor fuel reprocessing plant to support its decommissioning.

Shaft and Silo

Work to drill inspection ports for a camera inspection of the Silo and entry port for emergency pumps was completed and camera inspection

successfully carried out. Removable shielded plugs were successfully fitted.



The shaft isolation project earned another industry accolade, this time winning the top award in the British Construction Industry annual awards for civil engineering projects in the £3-50m category.

Waste Management

Main drainage works for the proposed new intermediate-level waste treatment plant were completed five months ahead of schedule and £45,000 below budget. A number of equipment items required for the new plant have been identified on the "asset transfer list" of Sellafield Sites Ltd and are now being examined.

Work started to decontaminate and scrap the redundant ventilation stack of the Dounreay Fast Reactor.

Safety

The British Safety Council informed DSRL it is to receive its Sword of Honour for 2009 for a five-star safety rating. Only 40 of these prestigious awards are given each year worldwide. The award will be presented at a ceremony in London's Goldsmiths Hall on November 27.

Manual handling was the "topic of the month" for special attention across the site.

Dounreay's emergency planning zone reduced in October from 5km to just over 1km, reflecting the reduction in hazard at the site.

Environment

An updated version of the Dounreay planning framework was submitted to Highland Council. This sets out DSRL's land use plans between now and 2025.

An application for new authorisation under the Radioactive Substances Act was submitted to SEPA.

A revision draft of the site's heritage strategy was issued to Historic Scotland. This looks at aspects of Dounreay that should be preserved for future generations.

Miscellaneous

The Scottish Government confirmed it intends to consult the public on a proposal to include "waste substitution" in the terms for closure of the site's historic fuel reprocessing contracts.

DSRL published a new report listing opportunities for sub-contractors valued at £114m over the next three years.

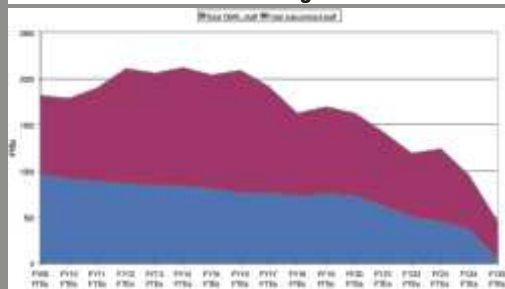
The site's socio economic strategy and plan for 2009/10 was issued. It is available on the DSRL website.

Dounreay Stakeholder Group met the NDA competition team and event management company to finalise the programme for the industry event to be held in Caithness as part of the competition for ownership of the site licence company.

The status of Dounreay Site Restoration Ltd changed from the public sector to the private sector with the completion of the sale of its parent company, UKAEA Ltd, to Babcock International Group. Employees were formally notified of the necessary technical changes to their pension arrangements.

Site closure programme at-a-glance

Forecast staffing levels



Annual funding limits set by NDA

2009/10 (confirmed) £156.7 million	2010/11 (provisional) £154.8 million	2011/12 (provisional) £183.7 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	
2021	Fast reactor reprocessing plant decommissioned	
2023	Shaft and silo emptied	
2025	All redundant facilities cleared	Interim End State - £2.6 bn
2027	Low level 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 day for bidders – Winter 2009
- Tendering – Autumn 2010
- Preferred bidder – Spring 2011
- New company takes over DSRL – Autumn 2011