



Nuclear
Decommissioning
Authority

Quarterly Performance Report

Quarter 1 (end of June 2016) status for 2016/17

Progress against this year's targets

Our current Business Plan outlines what we intend to achieve this year. Specific targets sit behind this planned activity.

This report shows the progress against these targets at the end of June 2016. They are grouped by strategic theme under each Site Licence Company (SLC). Also reported is Safety and Environmental information for each NDA site.

Strategic themes key:

SD&R	Site Decommissioning & Remediation
SF	Spent Fuels
NM	Nuclear Materials
IWM	Integrated Waste Management
CE	Critical Enablers

Status key:

Red	The key milestone or activity was due for completion before 31 March 2016 and as at that date there had been a delay against the planned schedule and the target has been missed.
Amber	The key milestone or activity was due for completion after 31 March 2016 and as at that date there had been a delay against the planned schedule with possibility of recovery.
Green	On target, the key milestone or activity was due for completion after 31 March 2016 and as at that date was on track to be completed to schedule.
Blue	Target complete, the key milestone or activity has been completed during the financial year 2015/2016.
Grey	Deferred – activity deferred due to re-prioritisation and/or reallocation of funding.

Sellafield Limited

Target Summary

Status		Number of targets
Red	Behind target	1
Amber	Behind target with possibility of recovery	3
Green	On target	19
Blue	Target complete	1
Grey	Deferred	1

	Target	Status	Comments
SD&R	PILE FUEL STORAGE POND:		
	Continue consolidation of sludge within the pond.	Green	
	Continue with consolidation and export of contaminated metals and recovery of residual fuel for treatment and storage.	Green	
	First export of sludge to Waste Encapsulation Plant (WEP).	Amber	Behind baseline schedule but expected to complete within financial year.
	PILE FUEL CLADDING SILO:		
	Continue development of the capability to retrieve waste.	Green	
	FIRST GENERATION MAGNOX STORAGE POND:		
	Continue export of contaminated metal wastes from wet bays.	Green	

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	Target	Status	Comments
	Commence export of material from pond to the Fuel Handling Plant.	Blue	
	Continue export of sludge from pond to Sludge Packaging Plant 1 (SPP1) buffer.	Green	
	MAGNOX SWARF STORAGE SILO:		
	Commence inactive commissioning of Silo Emptying Plant machine 2 (SEP 2).	Green	
	Progress capability required to implement the revised Magnox Swarf Storage Silo waste handling strategy to develop the downstream capability to receive and store material from this facility.	Green	
SD&R	DECOMMISSIONING:		
	Continue the decommissioning and demolition of the diffuser from Windscale Pile Chimney.	Green	
	Continue work to support demolition of First Generation Magnox Reprocessing stack.	Grey	Milestones missed due to delays in early phases of work. Revised forecast completion date and milestones under development to underpin final business case submission.
SF	Continue to reprocess Magnox spent fuel in line with MOP9	Green	
	Continue to receive and manage AGR spent fuel from EDF Energy.	Green	

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	Target	Status	Comments
	Continue to reprocess oxide spent fuel through THORP from EDF Energy and overseas customers.	Green	
	Continue preparations for the long-term interim storage of AGR spent fuel following the completion of THORP reprocessing.	Green	
NM	Continue the safe and secure storage of plutonium in line with UK policy.	Green	
	Continue to receive deliveries of special nuclear materials from Dounreay.	Green	
	Ensure safe, secure management of our uranics inventory.	Green	
IWM	Continue to process HAL through the Waste Vitrification Plant.	Green	
	Repatriation of overseas owned vitrified waste to its country of origin.	Green	
	Start of active commissioning of Evaporator D.	Red	Active commissioning now forecast to commence next financial year. This does not affect overall site delivery as Evaporator C has been confirmed as having capacity to operate until 2018.

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	Target	Status	Comments
	Continue to generate savings and preserve capacity at the LLW Repository (LLWR) by diversion of materials into the supply chain in line with the National LLW Strategy implementation and optimisation plan.	Green	
CE	Continue the Sellafield infrastructure enhancement programme.	Green	
	Progress with the capability improvements programme.	Amber	Transformation Programme is currently being defined, however in-flight improvement initiatives continue to deliver benefits.
	Support Small and Medium Enterprise organisations by increasing overall spend with them to 23.5-25%.	Amber	Sellafield Ltd is engaging with Tier 2 suppliers to improve its current performance.
	Continuation of information assurance activities and supporting processes.	Green	

Magnox Limited

Target Summary

Status		Number of targets
Red	Behind target	0
Amber	Behind target with possibility of recovery	12
Green	On target	44
Blue	Target complete	0
Grey	Deferred	0

	Target	Status	Comments
MAGNOX LIMITED			
SD&R	Continuation of estate decommissioning and demolition activities.	Green	
SF	Management of MOP9 and co-ordination of Magnox fuel management activities with Sellafield and Dounreay.	Green	
	Progression of Wylfa defuelling.	Amber	Shipments currently behind schedule. Possibility that they may not recover this financial year.
NM	Delivery of the Magnox nuclear materials programme activities.	Green	

Magnox Limited

	Target	Status	Comments
IWM	Delivery of the Magnox elements of the estate-wide low level waste management plan.	Green	
	Progression of activities to retrieve, process and package wastes.	Green	
BERKELEY			
IWM	Continuation of retrieval and packaging activities in the active waste vaults.	Green	
	Commencement of activities for shielded area waste retrieval.	Amber	Hold point placed on the project to allow for investigation of better value for money strategy utilising existing kit and learning from Bradwell – forecast to recover.
	Commence Design & Build of encapsulation facility.	Green	
Regulatory	NDA and Regulatory permissioning in support of the Berkeley ILW Management Programme.	Green	
BRADWELL			
SD&R	Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	

Magnox Limited

	Target	Status	Comments
	Ponds complex and contaminated structures (vaults) completed for entry into Care and Maintenance.	Green	
IWM	Continue Fuel Element Debris (FED) dissolution.	Amber	Plant production behind plan – recovery plan in place but forecast date still at risk.
	Continuation of ILW conditioning activities.	Green	
	Consign LLW FED to LLWR.	Amber	Currently behind plan but forecast to recover by year end.
CHAPELCROSS			
SD&R	Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	
	In-pond equipment operational.	Amber	Slight delay to start of operational activities noted. This is forecast to recover to plan.
IWM	Preparation for ILW retrievals.	Green	
DUNGENESS A			
SD&R	Decommissioning and demolition activities in preparation for entry into Interim Care and Maintenance.	Green	
IWM	Commence conditioning facility build.	Green	

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	Target	Status	Comments
	Preparations for ILW retrievals.	Green	
HARWELL			
SD&R	Continuation of Liquid Effluent Treatment Plant (LETP) area environmental restoration.	Amber	High level activity decommissioning works and remediation works will now run in parallel as part of recovery measures – still potential for full recovery against plan date.
	Decommissioning of redundant facilities.	Green	
	Continuation of decommissioning and demolition activities.	Green	
NM	Continuation of the programme for the transfer of nuclear materials and contact-handled ILW.	Green	
IWM	Recovery, processing and packaging of solid ILW.	Green	
	Continuation of ILW Store design and construction.	Green	

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HINKLEY POINT A			
SD&R	Completion of diesel plume ground contamination remediation.	Green	
	Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	
IWM	Commence Interim Storage Facility design.	Green	
	Continuation of preparations for FED retrieval activities.	Green	
	Initiation of ILW skip management arrangements.	Green	
	Commence Wet Waste and Vessel consolidations.	Amber	One month slippage with forecast to recover to deliver to plan date.
HUNTERSTON A			
SD&R	Completion of pond surface stabilisation.	Amber	Delays experienced due to equipment failures. Recovery plan in place to maintain plan dates.
	Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	
IWM	Completion of solid ILW encapsulation plant civil construction.	Green	

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	Progressing of ILW retrievals, processing and storage activities.	Green	
OLDBURY			
SD&R	Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	
	Commence ponds draining and stabilisation.	Green	
IWM	Commence ILW retrieval enabling works.	Green	
SIZEWELL A			
SD&R	Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	
	Continuation of ponds decommissioning.	Amber	Design and procurement activities related to crane upgrades running behind – recovery plan in place.
IWM	Commencement of FED retrievals.	Green	
	Commencement of ILW retrieval enabling works.	Green	
TRAWSFYNYDD			
SD&R	Strategy agreed for ponds End State entry.	Green	

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	Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	
IWM	Continuation of FED plant commissioning.	Green	
	Continuation of sludge and resin encapsulation.	Amber	Work progressing well with forecast to recover to plan date.
WINFRITH			
SD&R	DRAGON – continue reactor decommissioning.	Amber	Proposal to optimise project against a revised contracting strategy going ahead – forecast to recover against plan.
	SGHWR – commencement of reactor decommissioning contract.	Green	
	SGHWR – continue decommissioning of the primary containment areas.	Green	
	Continuation of decommissioning and demolition activities.	Green	
WYLFA			
SD&R	Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	
	Provision of support and assets to nuclear new build programme.	Green	

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IWM	Progression of ILW retrievals and packaging.	Green	
SF	Defueling activities in line with MOP9.	Amber	Shipments are behind target due to problems with defueling machines and fuel routes still impacting programme. Recovery plan in place but target is at risk for delivery on plan.

Dounreay Site Restoration Limited

Target Summary

Status		Number of targets
Red	Behind target	0
Amber	Behind target with possibility of recovery	0
Green	On target	4
Blue	Target complete	0
Grey	Deferred	6

	Target	Status	Comments
IWM	Dounreay Fast Reactor (DFR) raffinate immobilisation complete.	Green	Delayed to mid Aug 16.
	Ammonium Diuranate (ADU) floc immobilisation complete.	Grey	Will not be delivered in 16/17. See * below.
	Silo headworks for waste removal operational.	Grey	Will not be delivered in 16/17. See * below.
	Solid waste treatment and packaging plant operational.	Grey	Will not be delivered in 16/17. See * below.
	Shaft headworks for waste removal operational.	Grey	Will not be delivered in 16/17. See * below.
	Prototype Fast Reactor (PFR) irradiated fuel material transferred to spent fuel store.	Grey	May not be required – see * below.
	Particles remediated to agreed end-point.	Green	

Dounreay Site Restoration Limited

	Target	Status	Comments
	Dounreay Materials Test Reactor (DMTR) building complex decontamination complete.	Grey	Progress slowed due to reprioritisation. See * below. Now extended to March 18.
CE	Support Small & Medium Enterprise organisations by increasing overall spend with them to 23.5-25%.	Green	
	Continuation of information assurance activities and supporting processes.	Green	

* Progress has been delayed due to reprioritisation of the 'exotics' programme. The term 'exotics' refers to the NDA strategy for managing the 'exotic' fuels historically held at Dounreay. The strategy has been modified to focus on transfer and consolidation of 'exotics' from Dounreay to Sellafield. The Baseline Change Proposal (BCP) is currently in process and once approved and accepted by NDA will reflect the reprioritisation of work.

Low Level Waste Repository

Target Summary

Status		Number of targets
Red	Behind target	0
Amber	Behind target with possibility of recovery	1
Green	On target	12
Blue	Target complete	0
Grey	Deferred	0

	Target	Status	Comments
SD&R	Ongoing site preparation for phased construction of the final cap for trenches 1 to 7 and Vault 8.	Green	
	Ongoing decommissioning of Plutonium Contaminated Material facilities.	Green	
IWM	Continue segregated waste, treatment and disposal services in line with UK LLW Strategy. Work with consigning SLCs to improve waste forecasts and inventory.	Green	
	Delivery of the National LLW Programme to optimise LLW Strategy implementation. Work with consigning SLC's to improve waste forecasts and inventory.	Green	

Low Level Waste Repository

	Target	Status	Comments
	Manage and operate LLWR safely to provide an effective UK disposal service.	Green	
	Support hazard reduction across the NDA estate.	Green	
	Consideration of options to further optimise operations at the LLWR.	Green	
CE	Continue to pursue overall cost savings in delivery of the Lifetime Plan.	Green	
	Continue to pursue positive SLC behaviours.	Green	
	Continue to support Small & Medium Enterprise organisations by pursuing increased use.	Green	
	Propose and implement medium-term organisation structure and accommodation strategy.	Green	
	Complete the upgrades to the perimeter fencing.	Amber	Progress has been delayed due to challenging ground conditions but is expected to recover.
	Continuation of information assurance activities and supporting processes.	Green	

Safety and Environmental Performance

Below is a summary of safety and environmental information for April – June 2016.

The NDA has made clear its absolute commitment to the highest standards for health and safety, security and protection of the environment and expects its contractors to deliver sustained excellence in Health, Safety, Security, and Environmental (HSSE) performance.

This report gives details on any reportable incidents and environmental impact that have occurred at an NDA site in the reporting period.

Key:

Nuclear Safety:

- No incidents
- One or more INES* Level 1 or above

Industrial Safety:

- No incidents
- One or more RIDDOR** reportable events

Environmental Safety:

- No incidents
- One or more environmental non compliances

* International Nuclear Events Scale

** Reporting of Injuries, Diseases and Dangerous Occurrences Regulations

Safety and Environmental Performance

SITE	NUCLEAR SAFETY	INDUSTRIAL SAFETY	ENVIRONMENTAL SAFETY
Trawsfynydd			
LLWR			
Harwell	x	x	
Oldbury			
Sellafield	x	x	x
Dounreay	x	x	x
Berkeley			x
Hinkley Point A			x
Hunterston A			x
Winfrith		x	
Bradwell			x
Sizewell A			
Wylfa		x	x
Chapelcross			x
Dungeness A		x	

Safety and Environmental Performance

INES Events

Dounreay Site Restoration Ltd, Magnox and Sellafield reported INES 1 events, and Sellafield re-rated an INES0 event to INES 1. The events were:

Dounreay

- incorrect material quantity consigned to vault;

Magnox Harwell

- incorrect transport consignment;

Sellafield

- unintentional exposure of a worker to a radioactive source;
- ventilation failure in a waste silo- re-rated from INES0 to INES1.

RIDDOR Events

The Reporting of Injuries Diseases and Dangerous Occurrences Regulations 2013 (RIDDOR) requires employers to inform the regulators of some work-related incidents. RIDDOR applies to all work activities, but not to all incidents. Four types of incident must be reported:

Specified Injuries, as defined in the regulations.

Lost Time Accidents, where a worker has been unable to undertake normal work activities for a period of greater than seven days.

Dangerous Occurrences, as specified in the regulations.

Industrial Diseases, as specified in the regulations

Our sites reported nine RIDDOR events between April and June 2016:

One Specified Injury

Harwell

- fractured ankle;

Three Lost Time Accidents

Dungeness

- in the same event, a graze to the leg and a back injury;

Harwell

- soft tissue injury caused by a fall;

Sellafield

- a trip that resulted in a strain and, in a separate event,
- a minor head injury.

Safety and Environmental Performance

Three Dangerous Occurrences

Wylfa

- chain block fell from the end of a runway beam;

Winfrith

- failure of a lifting cable resulting in a dropped load;

Dounreay

- a small fire in an unoccupied temporary building.

One occurrence of a reportable Industrial Disease

Dounreay

- cramp of the hand or forearm.

Environmental Events

The following summarises environmental events where failure to comply with legal requirements has been confirmed by the regulator, or where the site operator has identified a provisional non-compliance:

Sellafield

- There is an unusual occurrence of elevated radioactivity levels in surface water discharged from the site to the sea. Although of very limited impact, the site is working to identify the source;
- The Environment Agency has identified a non-compliance when the site failed to provide a technical report on the timescale specified in the environmental permit.

Dounreay

- SEPA issued a Warning Letter for discharge of untreated sewage from temporary accommodation in the previous period;
- A long-standing route at the DFR plant for the discharge of radioactive gas has been identified. The discharge has not been previously accounted;
- DSRL failed to supply technical information to SEPA on the timescale set in the RSA Authorisation;
- There have been a number of gaseous discharge sampling errors (failure to collect sufficient sample for analysis, undertaking sampling at the wrong frequency).

Magnox

- A blocked foul drain at **Bradwell** led to the release of diluted untreated sewage into the river;
- The Environment Agency confirmed non-compliances associated with radiological clearance at **Berkeley**, although nothing left the site;

Safety and Environmental Performance

- There was a radiological clearance event at **Hunterston** when an item was found in a contractor's compound. It was returned to the site;
- Incorrect measurements lead to gaseous discharges from a particular stack being unreported by 10% at **Hinkley Point**;
- Minor unauthorised gaseous discharge routes were identified at both **Chapelcross** and **Wylfa**, associated with radioactive gas sampling.