



Nuclear
Decommissioning
Authority

Quarterly Performance Report

Quarter 4 (end of March 2016) status
for 2015/16

Quarterly Performance Report – Quarter 4 2015/16

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 Quarter 4 2015/16. They are grouped by strategic theme under each Site Licence Company (SLC). Safety and Environmental information for each NDA site is also reported.

Strategic themes key:

SR	Site Restoration
SF	Spent Fuels
NM	Nuclear Materials
IWM	Integrated Waste Management
BO	Business Optimisation
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.

DSRL Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
Site Restoration		
Decontamination of Prototype Fast Reactor (PFR) pond to meet regulatory requirements.	Red	Now forecast to be complete in November 2017 due to issues with the PFR Effluent Treatment Plant (ETP).
Nuclear Materials		
Completion of construction of new fuel characterisation facilities.	Red	The completion date has moved out due to delays to the Pre-Construction Safety Report (PCSR) submittal and is now forecast in FY2018/19. However, it is proposed that the current scope and schedule will be changed and that this may enable completion in FY 2016/17.
Integrated Waste Management		
Material Test Reactor raffinate immobilisation complete.	Blue	Complete.
Critical Enablers		
Continuous improvement in health, safety and environmental performance.	Amber	There was an increase in the Total Recordable Incident Rate (TRIR) towards the end of the financial year.

LLWR Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
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Site Restoration		
Ongoing site preparation for phased construction of the final cap for trenches 1 to 7 and for Vault 8.	Green	
Ongoing decommissioning of Plutonium Contaminated Material facilities.	Green	
Engaging with key stakeholders to progress environmental permits and planning approvals for continued use of the site.	Green	

Integrated Waste Management		
Continue segregated waste, treatment and disposal services in line with UK Low Level Waste Strategy.	Green	
Work with consigning SLCs to improve waste forecasts and the waste inventory.	Green	
Delivery of the National LLW Programme to optimise LLW Strategy implementation.	Green	
Complete the review of the UK Nuclear Industry Solid Low Level Waste Strategy.	Blue	

Critical Enablers		
Support Small & Medium Enterprise organisations by increasing overall spend with them to 22%.	Blue	
Continue to pursue overall cost savings in delivery of the Lifetime Plan.	Green	
Maintain the momentum of the supply chain investment in waste treatment arrangements.	Green	
Continue upgrades to the infrastructure.	Green	

Magnox Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
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Site Restoration		
Delivery of programmisation principles across Magnox SLC	Green	
Continuation of estate decommissioning and demolition activities.	Green	

Spent Fuels		
Management of MOP9 and co-ordination of Magnox fuel management activities with Sellafield.	Green	
Progression of Oldbury defuelling.	Blue	Complete

Nuclear Materials		
Delivery of the southern sites nuclear materials programme activities.	Green	

Integrated Waste Management		
Delivery of the Magnox elements of the estate-wide Low Level Waste management plan.	Green	

Business Optimisation		
Optimisation of electricity generation at Wylfa.	Blue	Wylfa ceased generation as planned on 30 December 2015.
Support to NDA in property activities to reduce NDA decommissioning liability and achieve best value on asset disposal.	Green	

Critical Enablers		
Complete consolidation activities in support of the new contract under one PBO.	Red	
Information Assurance Maturity Model - progression of delivery of enabling activities.	Green	

Magnox Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
Support Small & Medium Enterprise organisations by increasing overall spend with them to 22%.	Blue	
Development of Interim Care & Maintenance and Interim End State approaches, utilising revised management arrangements.	Green	

Berkeley

Integrated Waste Management		
Continuation of ILW plant retrievals and packaging.	Green	

Bradwell

Site Restoration		
Decommissioning and demolition activities in preparation for entry into early effective Care and Maintenance.	Amber	Delays in delivery and subsequent operational throughput rates of Fuel Element Debris (FED) dissolution and associated Aqueous Discharge Abatement Plant (ADAP) mean that the current Care and Maintenance (C&M) date is at risk.
Reactor buildings safestore – weather envelope to be completed.	Red	Now forecasting May 2016 for completion due to steelwork issues

Integrated Waste Management		
Continue Fuel Element Debris (FED) dissolution and retrievals.	Amber	Technical and throughput issues with the abatement plant have significantly delayed progress. All FED has been retrieved from the vaults.

Chapelcross

Site Restoration		
Decommissioning and demolition activities in preparation for entry into Interim Care and Maintenance.	Green	
Complete bulk asbestos removal from third and fourth reactor buildings.	Blue	Complete.

Magnox Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
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Dungeness A

Site Restoration		
Decommissioning and demolition activities in preparation for entry into Interim Care and Maintenance.	Green	

Harwell

Site Restoration		
Continuation of decommissioning and demolition activities.	Green	
Decommissioning of redundant facilities.	Green	

Nuclear Materials		
Continuation of the programme for the transfer of nuclear materials and contact-handled ILW.	Green	

Integrated Waste Management		
Recovery, processing and packaging of solid ILW.	Green	

Hinkley Point A

Site Restoration		
Ongoing activities for the draining and stabilisation of Reactor 1 ponds.	Blue	Complete.
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	

Integrated Waste Management		
Continuation of Fuel Element Debris (FED) retrieval activities and establishment of buffer storage arrangements.	On Hold	Characterisation activities are progressing in support of the development of the new FED strategy.

Magnox Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
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Hunterston A

Site Restoration		
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	
Completion of the pond floor surfaces stabilisation.	Red	Target was not completed due to issues with the Active Effluent Treatment Plant (AETP). Now forecast for completion in Q3 2016/17.

Integrated Waste Management		
Progressing of ILW retrievals, processing and storage activities.	Green	

Oldbury

Site Restoration		
Preparations for decommissioning and hazard reduction.	Green	
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	

Spent Fuels		
Continue reactor defuelling in line with MOP9.	Blue	Complete

Sizewell A

Site Restoration		
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	

Magnox Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
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Trawsfynydd

Site Restoration		
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Amber	Delays with Fuel Element Debris (FED) encapsulation means the current Care and Maintenance (C&M) date is at risk.
Strategy agreed for ponds Interim End State entry.	Amber	End State definition for Ponds complex being challenged and discussed with the regulators.

Integrated Waste Management		
Progressing of encapsulation of Fuel Element Debris.	Amber	Now forecast for 2017 due to challenges experienced at site.

Winfrith

Site Restoration		
DRAGON reactor – integrated scheme design completed.	Blue	Complete.
Continuation of decommissioning and demolition activities.	Green	
SGHWR – continue decommissioning of the primary containment areas.	Green	
SGHWR – completion of the contract award for reactor core detailed scheme design and build.	Blue	Complete.

Wylfa

Site Restoration		
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	Green	

Spent Fuels		
Defuelling activities in line with MOP9.	Green	

MAGNOX Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
Business Optimisation		
Continued electricity generation.	Blue	Generation output ahead of the business case targets. Wylfa ceased generating as planned on 30 December 2015.

Sellafield Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
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Site Restoration		
PILE FUEL STORAGE POND:		
Continue consolidation of sludge within the pond.	Green	
Continue with consolidation and export of contaminated metals for treatment and storage.	Green	
Continue consolidation and export of metal fuel from the pond and wet bays.	Blue	Complete.
Completion of export of Canned Oxide Fuel from the pond.	Blue	Complete.
PILE FUEL CLADDING SILO:		
Continue development of the capability to retrieve waste.	Green	
FIRST GENERATION MAGNOX STORAGE POND:		
Active commissioning of Sludge Packaging Plant 1.	Blue	Complete.
Ongoing export of material from wet bays.	Green	
Continue to develop capability to support export of material from the pond.	Green	
MAGNOX SWARF STORAGE SILO:		
Continue to develop the downstream capability to receive and treat material from this facility.	Green	
Commence installation of Silo Emptying Plant 2 machine.	Blue	Complete.
Commence construction of the Silo Maintenance Facility flask loading and maintenance cave.	Blue	Complete.
DECOMMISSIONING:		
Continue the decommissioning and demolition of the diffuser from Windscale Chimney Pile.	Green	
Continue work to support demolition of First Generation Magnox Reprocessing stack.	Green	

Sellafield Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
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Spent Fuels		
Continue to reprocess Magnox spent fuel in line with MOP9.	Green	
Complete all receipts of 'out of reactor' breeder material from Dounreay.	Blue	Complete.
Continue to receive and manage AGR spent fuel from EDF Energy.	Green	
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	

Nuclear Materials		
Continue the safe and secure storage of plutonium in line with UK policy.	Green	
Receive first transports of exotic fuel from Dounreay.	Blue	Complete.
Continue the implementation of a programme for the transfer of materials from Harwell.	Green	

Integrated Waste Management		
Continue to process Highly Active Liquor (HAL) through the Waste Vitrification Plant.	Green	
Continue to repatriate overseas owned vitrified waste to its country of origin.	Green	
Progress inactive commissioning of Evaporator D.	Green	
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	

Sellafield Quarterly Performance Report – Quarter 4 2015/16

TARGET	STATUS	COMMENTARY
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Critical Enablers		
Continue the Sellafield infrastructure enhancement programme.	Green	
Continue with the capability improvements programme (Excellence Plan).	Green	
Support Small and Medium Enterprise organisations by increasing overall spend with them to 22%.	Red	Percentage of spend was marginally below the 22% target.

Health, Safety, Safeguards and Environmental Performance Report – Quarter 4 2015/16

Below is a summary of Health, Safety, Safeguards and Environmental information for Quarter 4 2015/16.

The NDA has made clear its absolute commitment to the highest standards for Health, Safety, Security, Safeguards and protection of the Environment and expects its contractors to deliver sustained excellence in performance.

We give details on any reportable incidents and environmental impacts that have occurred at an NDA site in the reporting period.

SITE	NUCLEAR SAFETY	INDUSTRIAL SAFETY	ENVIRONMENTAL SAFETY
Trawsfynydd	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LLWR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Harwell	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Oldbury	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sellafield	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dounreay	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Berkeley	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hinkley Point A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hunterston A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Winfrith	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Bradwell	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sizewell A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wylfa	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Chapelcross	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Dungeness A	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Health, Safety, Safeguards and Environmental Performance Report – Quarter 4 2015/16

INES Events

The International Nuclear and Radiological Event Scale (INES) facilitates communication and understanding between the technical community, the media and the public on the safety significance of radiological events. While the number of INES events serves as a useful comparator, an INES rating is not in itself a reliable indicator of the severity of an event, because INES is a communication tool, not an objective scientific scale.

Oldbury:

- Attempted to remove flask lid while bolts in place – INES 1.

Chapelcross:

- Low activity pipework from the top of the heat exchanger left site as 'clean metal' – INES 1.

RIDDOR Events

The RIDDOR Regulations ('Reporting of Injuries Diseases and Dangerous Occurrences Regulations') require the reporting of certain types of injury, accident and industrial disease. RIDDOR applies to all work and work-related activity, but does not apply to all types of accident. Three types of event must be reported:

- **Lost Time Accidents**, where an injury or condition results in a person being unable to return to their work for more than seven days
- **Dangerous Occurrences**, which are defined in the regulations
- **Specified Injuries**, which are defined in the regulations.

Winfrith:

- A worker suffered a fractured a bone when a fence base dropped onto their foot, a Specified Injury.

Wylfa

- A CNC officer fell down stairs and suffered a back injury, a Lost Time Accident.

Chapelcross:

- A worker suffered a fractured kneecap after falling in a corridor, a Specified Injury.

Harwell:

- A worker fell when crossing a barrier, sustaining a fractured shoulder, a Specified Injury.

Sellafield:

- A worker suffered a hand injury that was subsequently diagnosed as a non-simple fracture, a Specified Injury.
- A worker sustained back injury, a Lost Time Accident.
- A worker tripped and fell, a Lost Time Accident.
- A worker fell on steps, a Lost Time Accident.
- An accidental release of nitrogen was reported to HSE as a Dangerous Occurrence.
- A cyclist riding on site collided with a CNC vehicle, suffering a fractured collarbone, a Specified Injury

Health, Safety, Safeguards and Environmental Performance Report – Quarter 4 2015/16

Environmental Events

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

Sellafield:

- Overfilling of a chemical tank at the THORP reprocessing plant led to the inadvertent discharge of a non-active raw material to the sea. There was no environmental harm;
- During in-pond skip cleaning operations, the pond became cloudy and the Environment Agency confirmed that there the arrangements to manage such an event did not represent Best Available Techniques;
- In the Water Treatment Plant, a patch repair on a pipe failed releasing sulphuric acid into a sump (which took some cleaning up).

Dounreay:

- Waste had to be retrieved from the new low level waste disposal vaults when it was discovered that a limit in the disposal authorisation had been exceeded;
- During commissioning of a new analytical lab, gaseous radioactive discharges were over-estimated;
- A particulate limit at one of the site's surface water outfalls was slightly exceeded.

Dungeness A:

- Repeated errors in reporting gaseous discharges were identified at Dungeness A

Harwell:

- The Environment Agency confirmed a non-compliance relating to a disposal in 2013 from the Harwell Site, where metallic waste sent for recycling was found at the receiving site to not be completely characterised;

Chpelcross:

- Low activity pipework from the top of the heat exchanger left Chapelcross site as 'clean metal' – same event as in INES section.