

Business Plan

1 April 2018 to 31 March 2021

March 2018



Nuclear Decommissioning Authority Business Plan

Financial year beginning April 2018 to financial year ending March 2021

Business Plan presented to Parliament pursuant to Schedule 3 of the Energy Act 2004.

Business Plan laid before Scottish Parliament by the Scottish Ministers pursuant to Schedule 3 of the Energy Act 2004.

March 2018

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Response to the Consultation

General

The consultation on our 2018-2021 draft Business Plan ran from 11 December 2017 to 4 February 2018, receiving 15 formal responses. We have considered feedback and made appropriate changes to amend the document since the draft was published. The Plan received a positive reception with general support for its style and format.

There was overarching support for the key activities outlined for the NDA Corporate Centre, its businesses and specialist subsidiaries. The 20 year Priority Programme Overview was highlighted as being a useful tool to aid understanding of the 'big picture' and how the key activities link together.

The NDA is conscious that the timing of our annual Business Plan consultation may cause difficulties for some stakeholders wanting to respond. We will review our timing and within constraints of seeking consultation responses and required approvals, will look to improve the process and potentially extend the consultation period.

If respondents feel that their feedback has not been adequately addressed, then enquiries can be submitted to us via enquiries@nda.go.uk.

Our responses to the feedback to the consultation are covered below.

Socio-economics

The continued interest in how the NDA approaches this work and allocates its budget for these activities was highlighted, particularly with regard to working with other organisations on matters of common concern and improving transparency. The NDA has a legal duty to give encouragement and support to activities that benefit the social and economic life of communities near its sites. For more than a decade since the NDA was formed, it has supported a range of projects and programmes in local communities, often in partnership with local councils and economic development agencies.

We try to make sure that our support matches local priorities. For this reason, much of the NDA socio-economic budget is delegated to our businesses who invest it according to local priorities. For larger projects, we also tend to support projects that are aligned with well-established local initiatives, for example, the plans for local councils and local economic development agencies, such as Local Economic Partnerships. In line with feedback from the consultation we will continue to engage closely with local communities and local organisations to make sure our work aligns with local needs and priorities.

To ensure we make our investment decisions in an evidenced-based way, we have commissioned two new economic impact assessments to provide robust data on how reliant our communities are on their local sites and what specific social and economic impacts are likely as those sites continue through their lifecycle. We will use that data to make sure our investment decisions are made on the basis of clear evidence of need or opportunity. Once those economic impact assessments are finalised, we will publish them online together with other recent studies. We will update these studies regularly to ensure that their findings remain valid.

We are working with our businesses to make sure all support for local communities is well governed and subject to high-quality levels of decision-making, financial control and audit. We are developing a work programme to share performance reporting standards and develop best practice across all our businesses.

It is important that our investment in communities makes a real difference on the ground and that our work meets stakeholders' expectations in terms of openness and transparency. To that end, we will be publishing a report with a list of expenditure to support social and economic activities across the NDA Group before the end of the financial year 2017/18. We will keep this initial list up-to-date through regular updates. In addition, we will be issuing regular socio-economic case studies on our website, highlighting the impact of NDA support. A number of consultation responses asked for a breakdown of the budget devoted to social and economic support. This will be published on our website before the end of this financial year.

Geological Disposal Facility (GDF)

There was great interest around the GDF. The Department for Business, Energy and Industrial Strategy (BEIS) consultations were launched on 25 January 2018, seeking views on the policy for working with the communities in the GDF siting process and the proposed planning arrangements for a GDF. Both consultations close on 19 April 2018, we would like to encourage our stakeholders to engage with the consultation process.

Holliday Inquiry

Several respondents asked for more information on the Holliday Inquiry into the Magnox contract to be included in the Business Plan. In March 2017 an independent inquiry into the award of the Magnox contract and its subsequent termination was announced. We are currently awaiting the findings of the Inquiry. The NDA however, is already acting upon learning from the mistakes made and has taken steps to improve the NDA business.

Activities and Funding

A number of respondents asked for more information on detailed targets to be included in the Business Plan. The Plans purpose is to provide a summary of activities and expected progress for all 17 of the NDA's nuclear sites over the next 3 years, in line with the funding agreed with HM Treasury and BEIS.

The plan does not include detailed site level targets as these are documented in each of the businesses and specialist subsidiaries plans and would not be practical within this document. Links to the businesses and specialist subsidiaries websites can be found in useful links on page 45.

There were some requests for a more detailed split of expenditure. The Business Plan outlines planned allocations of available funding. We retain some flexibility in final allocations through the year by operating a portfolio funding approach across the Group to maximise value for money whilst focusing on our highest hazards and risk.

Performance

Some respondents expected the Plan to include information on performance against the previous Business Plan.

This can be found in the NDA's 2017/18 Annual Report and Accounts which will be published in July 2018. A mid-year report on the status of progress against our Business Plan 2018-21 targets will be published in September 2018.

Changes in activities

We have added 2 NDA Corporate Centre targets in the Critical Enablers section relating to the embedding of the Government's Industrial Strategy and new nuclear emergency preparedness standards.

The planned activities at the Dounreay site have been updated to take account of latest forecasts, including increased understanding of the impact of the current work on unirradiated exotic fuels.

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Foreword



David Peattie
Chief Executive

Business Plan purpose

The Business Plan sets out key activities and expected progress for all 17 of the NDA's nuclear sites over the next 3 years. It also outlines expected income and expenditure for the coming financial year.

Our mission is clear, to clean up the UK's civil nuclear legacy.

We must conduct it safely, securely and cost-effectively, with the protection of people and the environment at the forefront of our minds.

If we look to the next 3 years the end of nuclear fuel reprocessing at our Sellafield site will begin in 2018, with the closure of the Thermal Oxide Reprocessing Plant, also known as THORP, followed by the closure of the Magnox Reprocessing Plant in 2020.

These are landmark events for us and for the wider community in and around Sellafield - the UK's largest and most complex nuclear site.

At our Magnox site at Bradwell, we will take a huge stride in advancing our mission when it becomes the first NDA site to enter a state of care and maintenance. This means that by 2019 all mobile hazards and the vast majority of the buildings will have been cleared. The main reactor building will be sealed and Bradwell will be left in a safe condition before the remaining buildings are finally demolished towards the end of the 21st century. This achievement will be a fantastic demonstration of our workforce's ability to safely deal with all the hazards, plants and facilities on

As well as seeing the great progress being made across all areas of our business, the next 3 years will bring significant changes to how we will work, including new ways of managing the work at the Magnox sites after the termination of the current contract with Cavendish Fluor Partnership (CFP) in 2019. Decisions on the new arrangements are currently being taken.

The NDA is awaiting the findings of the independent Holliday Inquiry into the awarding of the contract but we have already taken some significant steps to strengthen our organisation. This includes the appointment of a new Commercial Director, General Legal

Counsel and we look forward to a new Nuclear Operations Director joining us on 3 April 2018. We have also improved the way in which we govern our businesses with much stronger performance management systems in place.

So a busy few years ahead as we continue to deliver our mission and become a stronger NDA. We cannot do this alone. Your involvement is crucial. A significant focus for us will be supporting the consultations seeking views on the BEIS policy for working with the communities in the GDF siting process and the proposed planning arrangements for a GDF, a topic of which there is a great demand for public participation. We will also be supporting Radioactive Waste Management Ltd (RWM) in the delivery of a GDF which is mission critical for both the Government and the NDA.

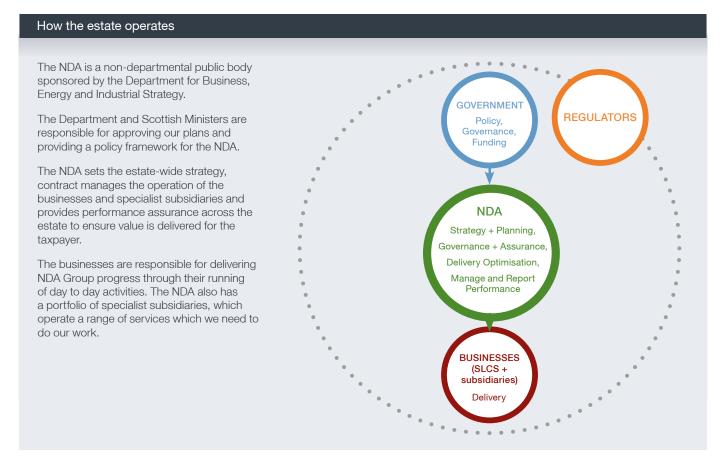
I was hugely impressed at the NDA's first stakeholder summit this year by the depth of people's interest in our work, including the GDF. Maintaining strong relationships is vitally important to the NDA and to me personally. I am committed to meeting and listening to as many people as possible from communities around our sites, and those further afield who have an interest in our mission to decommission and clean up the UK's legacy nuclear sites.

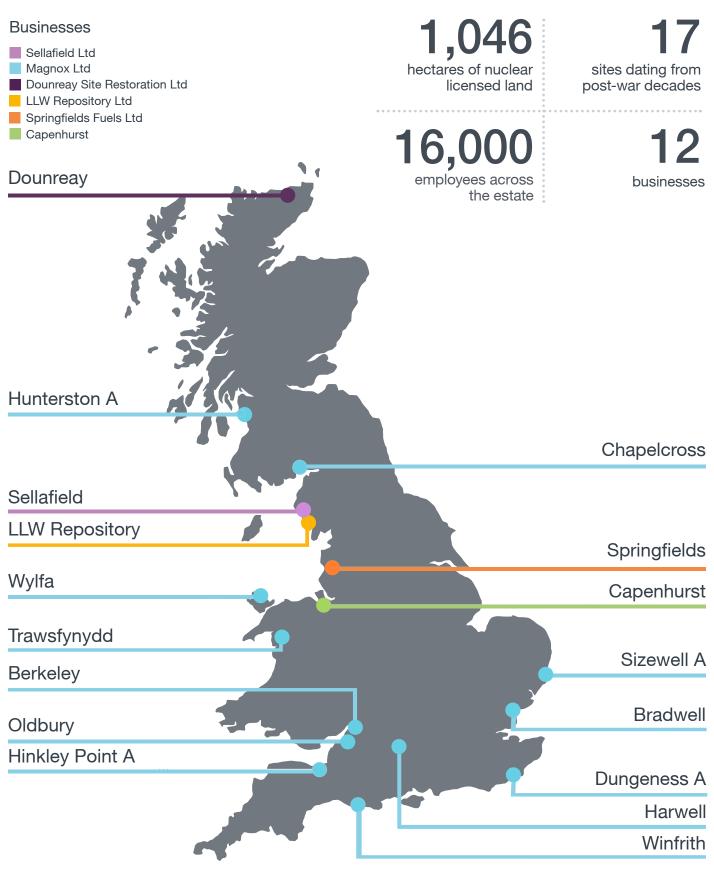
The NDA Group

We are dealing with one of the most complex, long-term, environmental challenges in Britain.

We are responsible for decommissioning 17 nuclear sites. This includes the first generation of Magnox power stations, various research and fuel facilities and our largest, most complex site, Sellafield. The 17 sites are spread across the UK and we take an estate-wide view of the work.

Our core objective is to decommission these sites safely, securely, cost-effectively and in a manner that protects the environment.





NDA Corporate Centre

The Energy Act 2004 (ref 5) transferred the assets and liabilities of all the sites included in this Business Plan to the Nuclear Decommissioning Authority (NDA). The NDA has 5 offices located across the UK with its headquarters in Cumbria and we employ just over 224 staff. We are accountable for annual expenditure of circa £3 billion.

The NDA is a strategic authority that leads the delivery of the mission through businesses and specialist subsidiaries. In that leadership role we focus on the following;



Underpinning all we do is a commitment to encourage the highest standards of safety, security and environmental responsibility and an open and transparent approach to secure the support and trust of our stakeholders.

We have adopted the principles of; simplification; standardisation; discipline; and focus.



Our strategy is reviewed every 5 years and provides the framework for delivering our mission on behalf of government. It sets out our strategic direction and long-term objectives and determines what the NDA is going to do to deliver its policy obligations. We've developed a Strategy Management System to support the development of strategic options and make decisions on a series of distinct issues. Our plans set out how we will deliver the key outcomes required to achieve our mission in the right timeframe and within the funding agreed with government.



Implement a governance regime that discharges our legal, regulatory and public service responsibilities to protect the interests of government and taxpayers, employees and stakeholders. We undertake appropriate assurance of delivery to ensure the businesses, the NDA and our subsidiaries deliver the outcomes required to achieve our mission. Risk based planning and assurance, along with the provision of specialist support, gives confidence to the NDA and our stakeholders that we have the right people, processes and plans in place to ensure that hazards are reducing as planned and that strategy will be delivered. We do this by knowing that projects are being delivered in line with plans and that programmes are on track to deliver the right value for money outcomes within agreed funding limits.



We seek the optimum mix of businesses to deliver our mission. These range from PBO led SLCs through NDA owned subsidiaries to affiliates. These management arrangements provide a framework for setting out our requirements and expectations and are designed to deliver our desired outcomes. NDA's central view helps us to make optimised and prioritised estate-wide decisions over the short and long-term.

¹ NDA Strategy – March 2016 (www.gov.uk/nda)



We have introduced Quarterly Performance Review (QPR) meetings with our businesses. The QPR is at the heart of performance management, driving discipline around targets, direction, culture, clarity and holding the businesses to account. We report performance of the businesses to government and stakeholders.

We are also focused on getting the right technology, skills and resources in place to help in our mission, as well as ensuring that local communities are supported socially and economically during and after the clean-up work.



One of our responsibilities is to ensure the right amount of R&D is carried out to deliver the full decommissioning programme.

Many 'never-done-before' projects require significant innovation and novel engineering approaches.

The aim is to solve the challenging technical problems more effectively, more efficiently and where possible, for less cost to taxpayers.

To maximise the benefits of R&D and avoid duplication, the NDA promotes the estate-wide sharing of good practice and, where appropriate, the adoption of innovative ideas across multiple sites.



Cleaning up the UK's nuclear legacy is a long-term environmental challenge that requires different skills in different locations at different times.

It's vital, based on the foresight we have, that we create an environment now that encourages people, no matter at what stage of their career, to develop the right skills for our mission.



The NDA's socio-economic mission is to 'support the maintenance of sustainable communities' and our objectives are to:

- Enhance the opportunity for local people to be involved in decommissioning work or other economic activity through education, retraining and skills development
- Support the diversification of local economies into other sectors –reducing the reliance of communities on nuclear sites for employment
- Increase the attractiveness of areas near NDA sites and places to live, work and invest in
- Work with nuclear new build and neighbouring site organisations, local authorities and other key stakeholders to work cohesively on socio-economics and maximise potential benefits to the community.

¹ NDA R&D 5 year plan 2014 to 2019 (www.gov.uk/nda) ² NDA Direct Research Portfolio (DRP) Projects: Quarterly Update Jan 2018 (www.gov.uk/nda) ³ Nuclear Decommissioning: R&D (brochures) Nov 2016 (www.gov.uk/nda) ⁴ Nuclear Decommissioning: attracting and retaining skills (brochure) Nov 2016 (www.gov.uk/nda)

NDA Corporate Centre Key Activities

Funding
Planned expenditure for 2018/19
- £3 billion (circa)

We categorise our activities under 5 strategic themes. This allows us to bring a clear focus to our mission.

Site Decommissioning and Remediation - to decommission and remediate our sites and release them for other uses.

Spent Fuels – to ensure safe, secure and cost effective lifecycle management of spent fuels.

Nuclear Materials - to ensure safe, secure and cost effective lifecycle management of our nuclear materials.

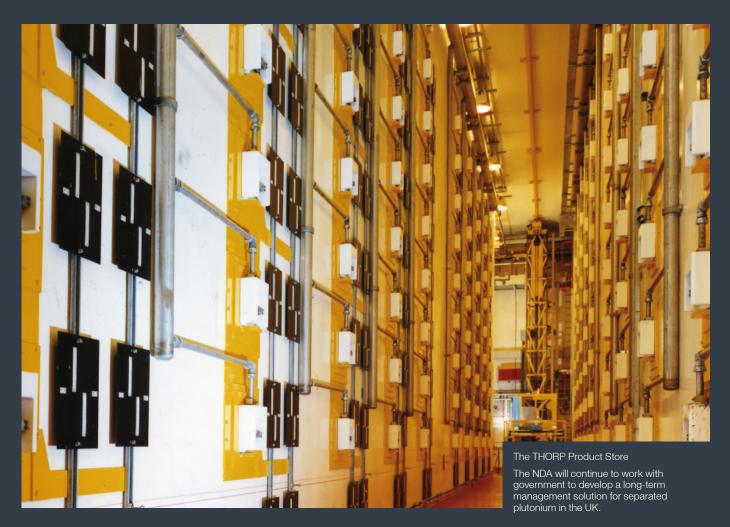
Integrated Waste Management – to ensure that wastes are managed in a manner that protects people and the environment, now and in the future, and in ways that comply with government policies and provides value for money.

Critical Enablers - to provide the stable and effective implementation framework that enables the delivery of our mission.

The NDA's key activities for the next 3 years are set out below:

Key Activities	Timescale
Nuclear Materials	
Work with government to develop a long-term management solution for separated plutonium in the UK.	2018/21
Integrated Waste Management	
The NDA will work with Group Businesses to explore alternative disposal options for Higher Activity Waste.	2018/21
Critical Enablers	
Launch of the GDF siting process and community engagement.	2018/19
Undertake health of the supply chain review.	2018/19
Review of NDA operations and implementation of the recommendations from the Holliday Inquiry, NAO landscape report and Public Accounts Committee.	2018/21
Manage the existing Magnox Limited contract through to termination; and transition to new arrangements.	2018/21
Development of strategic opportunities that optimise delivery of the mission.	2018/21
Manage special nuclear materials consolidation in agreed locations.	2018/21
Development and implementation of a Group Equality, Diversity and Inclusion (EDI) Strategy.	2018/21
Implement Government led reforms of public sector pensions and exit caps across NDA Group	2018/21
Provide support to government on nuclear new build decommissioning plans.	2018/21
Working to embed the capability to proactively protect, detect, respond and recover against current and evolving cyber threats.	2018/21
Implementation of our strategic people delivery plan to enable resource planning, skills development and flexibility and mobility across the estate.	2018/21
Support Small and Medium Enterprise organisations by increasing overall spend with them in line with the government Growth Agenda.	2018/21
Performance management of Group Businesses.	2018/21
Embed the key tenets of the Industrial Strategy, including facilitation under any Nuclear Sector Deal, throughout the NDA's business.	2018/21
Support implementation of forthcoming new nuclear emergency preparedness standards across the NDA Group, as part of the UK's implementation of the Basic Safety Standards Directive 2013.	2018/21
Regulatory Control	
Continue working with regulators and government to determine institutional controls appropriate to restoration of nuclear sites.	2018/21





A look ahead to 2021

The next 3 years will bring a number of landmark achievements across the estate, demonstrating major inroads into our decommissioning mission.







Complete THORP reprocessing 2018

Sellafield's Thermal Oxide Reprocessing Plant (THORP) takes spent nuclear fuel from EDF Energy's operational power stations and from foreign customers.

The closure of THORP in 2018 remains on track. It will avoid the expense of replacing many of the plants that support its operation. This means we can focus our resources on the primary task of decommissioning and remediation.

The end of reprocessing operations in THORP provides a clear transition point for Sellafield. The site will move from commercial operations to decommissioning and continued management of spent fuel and waste.

All Magnox reactors defueled and fuel transferred by 2019

Of the 11 sites that have Magnox reactors, only 2 have yet to complete defueling: Wylfa in Wales will complete in 2018; Calder Hall on the Sellafield site is scheduled to complete in 2019.

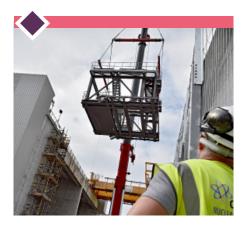
All fuel will be transferred for reprocessing, conditioning and/or storage at Sellafield site. This represents the culmination of a complex, logistical and procedural challenge.

By 2018 the radiological hazard on all Magnox sites across the UK will have been reduced by 99%. These sites will prepare to enter a period of quiescence known as the Care and Maintenance phase.

Magnox reprocessing complete by end of 2020

Closure of the Magnox Reprocessing Plant at Sellafield is based on the latest Magnox Operating Programme and subject to the completion of defueling and the performance of ageing facilities that were built many decades ago.

As a result of completing reprocessing, a series of products will be suitable for interim storage pending disposal or reuse. The conclusion of reprocessing also benefits the environment and complies with the UK Strategy for Radioactive Discharges.







Retrievals from the high hazard facilities - Pile Fuel Cladding Silo and Magnox Swarf Storage Silos by 2020-2021

The Pile Fuel Cladding Silo is one of the oldest facilities at Sellafield.

Retrieval of waste from the Pile Fuel Cladding Silo at Sellafield is scheduled to start 2 years earlier than forecast.

A simplified, ground-breaking approach also reduces the cost of this work by almost £250 million pounds.

First NDA site moves into Care and Maintenance phase by 2019

Bradwell in Essex is set to be the UK's first Magnox site to reach the stage of Care and Maintenance, when its two reactors and ILW store will be sealed.

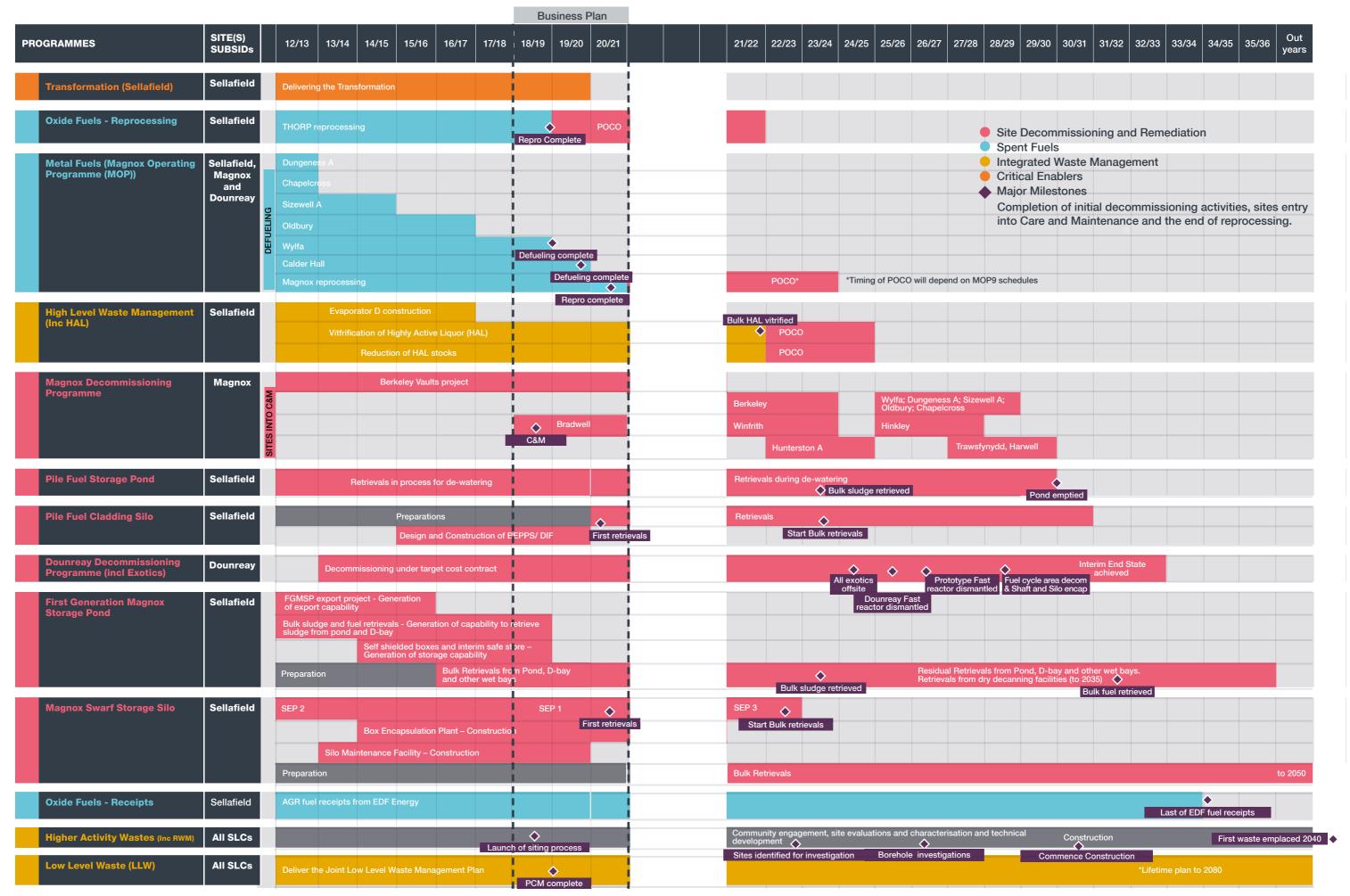
This period of reduced activity will last for several decades. Appropriate management arrangements will be required for a regime of site security, monitoring, maintenance and records management.

Low Level Waste Repository - PCM dealt with by 2019

A series of concrete bunkers that once stored Plutonium Contaminated Materials (PCM) look set to be demolished at least 4 years earlier than expected - and for £30 million less than expected.

Located at the Low Level Waste Repository near Drigg, Cumbria, the bunkers were known as magazines and stored PCM generated from operations at Sellafield in the 1950s-1960s.

NDA Estate Key Programmes: 20 Year Overview



Our funding

Funding framework

The NDA is publicly funded through the Department for Business, Energy and Industrial Strategy (BEIS), our total planned expenditure is voted upon annually by Parliament.

Revenue generated through the commercial activities of the NDA reduce the level of public funding required from Government.

Commercial income

We maximise revenue from our existing assets and operations to help fund decommissioning and clean-up, in order to reduce the level of public funding required to meet the scope of our plans and delivery of the NDA mission. The commercial operations of the NDA are primarily spent fuel and nuclear materials management with additional opportunities identified in providing transportation services.

We will pursue all commercial opportunities using our existing assets, operations and people where it does not materially impact on our core mission or increase our liabilities. The nature of our current commercial activities means we have to manage a significant degree of income volatility, largely due to our operations relying on ageing assets and infrastructure.

Prioritisation and allocation of funding

Within affordability constraints, we will seek to maintain progress and maximise value for money through the effective implementation of our strategy. This will mean focussing on delivery of work on the highest hazards and risks, whilst ensuring that safe, secure and environmentally responsible site operations are maintained.

Planned income and expenditure in 2018/2019

This Business Plan sets out our anticipated income and expenditure for 2018/2019 as agreed with HM Treasury and BEIS.

Our total planned expenditure for 2018/2019 is £3.146 billion, of which £2.269 billion will be funded by UK Government and £0.877 billion by income from commercial operations. Planned expenditure on site programmes will be £2.967 billion, while non-site expenditure is expected to be £0.179 billion. This non-site expenditure includes skills development, socio-economic, research and development (R&D), insurance and pension costs, fees to businesses, implementing geological disposal and NDA operating costs as detailed on page 22.

Planned income and expenditure summary 2018/19

£M	Decom & Clean-up	Total Operat	ions Costs	2018/19 Plan	2017/18 Plan
Businesses and specialist subsidiaries	Costs (A)	Running Cost (B)	Capex (C)	Total (A+B+C)	Total
Sellafield Ltd (including gas costs for steam)	1,142	641	217	2,000	2,000
Trading and Gas Costs (Sellafield)	24			24	24
Magnox Ltd	490			490	572
Dounreay Site Restoration Ltd	192			192	189
LLWR Ltd	79			79	75
Springfields Fuels Ltd	20			20	34
Capenhurst	55			55	61
Nuclear Transport and Contract Management		109		109	106
Non-Site Expenditure	179			179	177
TOTAL	2,179	749	217	3,146	3,239
Income				877	879
Net				2,269	2,360

Notes:

- 1. Numbers may not cast due to rounding
- 2. Final Annual Site Funding Limits issued in March 2018 may be adjusted to reflect efficiency, performance and portfolio pressures.
- 3. The NDA reserves the right to reallocate funding to meet prioritised programme needs.

Summary of NDA funding (2018/19 onwards)

Summary of NDA funding	2018/19 £M	2019/20 £M	2020/21 £M
Income	877	1,154	TBC - will be
Government Funding	2,269	1,988	confirmed in next
Expenditure	(3,146)	(3,142)	spending
Balance	0	0	review

Our funding

2018/19 breakdown of non-site expenditure

Non-site expenditure	2018/19 Plan £M	2017/18 Plan £M
NDA Operating Costs	41	41
Radioactive Waste Management Limited	30	26
Socio Economic, Skills, Research and Development, Knowledge Management, Other	31	31
Estate Insurance	16	16
NDA Properties, Policy Support, NDA Asset decommissioning	17	20
Contractor Fees	43	43
Total	179	177

2018/19 breakdown of planned income by category

Income source	2018/19 Plan £M	2017/18 Plan £M
Reprocessing and Fuel Management Services	761	770
Electricity Generation	0	9
NDA - INS Transport	74	63
Intra Site Services	42	37
Total	877	879

Businesses (sites)



Sellafield





Sellafield Limited

On the 1 April 2016 Sellafield Limited became a wholly owned subsidiary of the NDA.

Planned expenditure for 2018/19 - £2 billion

265 hectare site in Cumbria. All 265 hectares remain covered by the nuclear site licence. Modifications of designating direction signed by the Minister in Jan 2012.

Current key milestones

2018 - Completion of THORP reprocessing

2019 - Implement and embed the long-term partnership supply chain in Major Projects (Programme and Project Partner - PPP)

2020 - Begin retrievals from the Pile Fuel Cladding Silo and Magnox Swarf Storage Silos

2020 - Completion of Magnox reprocessing including defueling of Calder Hall

Key Activities Timescale

Site Decommissioning and Remediation

The areas of principal focus are the redundant Legacy Ponds & Silos facilities, made up of the Pile Fuel Storage Pond, Pile Fuel Cladding Silo, First Generation Magnox Storage Pond and Magnox Swarf Storage Silo. These facilities supported the development of the nuclear programme in the UK from the early 1950s. Latterly, they have supported the generation from the fleet of Magnox power stations. The programmes include the removal of nuclear fuel, sludge and solid material which require the provision of equipment to retrieve the various wastes and then treat and store them in passive condition. This process needs to take into account the role of Integrated Waste Management in achieving hazard reduction and long-term safety, security and environmental protection requirements.

 Pile Fuel Storage Pond Continue sustained sludge exports. Ready to start dewatering. 	2018/21
 Pile Fuel Cladding Silo Completion of Inactive Safety commissioning of Box Encapsulation Plant and Product Store. (BEPPS)/Direct Import facility (DIF). Commence inactive commissioning of waste retrieval equipment. Move to volume production of 3m³ boxes. Begin retrievals from the Pile Fuel Cladding Silo. 	2018/21
First Generation Magnox Storage Pond Commence Bulk sludge removal from D Bay. Continue to export fuel and sludge from the pond.	2018/21
 Magnox Swarf Storage Silo Implement the revised Magnox Swarf Storage Silo Strategy. Complete active commissioning of SEP 2 (Silo Emptying Plant). Commence SEP1 (Silo Emptying Plant) Phase 1 active commissioning. Silos Maintenance Facility complete. First export of waste through the Encapsulated Product Store - waste treatment route. Progress the project for the bulk manufacture of 3m³ boxes. Begin retrievals from the Magnox Swarf Storage Silo. 	2018/21

Key Activities	Timescale
 Decommissioning Continue the decommissioning and demolition of Windscale Pile Chimney Number 1. Continue the demolition of SEP Head End Stack. Complete the removal of remaining gloveboxes from Finishing Line 3. 	2018/21

Spent Fuels

All of the spent fuels discharged from the operating Advanced Gas-Cooled Reactor (AGR) power stations and defueling Magnox power stations reactors are sent to Sellafield for management. The management of AGR fuel under contracts with EDF Energy provides a significant income stream to the NDA.

Completion of THORP reprocessing.	2018/19
Continue to receive and manage AGR spent fuel from EDF Energy.	2018/21
Continue to reprocess Magnox spent fuel in line with MOP9.	2018/21
Completion of Magnox reprocessing.	2019/21

Nuclear Materials

Sellafield is the custodian of the majority of the UK's stockpile of plutonium which is held in safe and secure storage. Consolidation of materials is an ongoing activity and will continue to be part of the site's mission.

9 9 7	
Continue the safe and secure storage of plutonium in line with UK policy.	2018/21
Continue to receive and securely store special nuclear materials from Dounreay.	2018/21
Ensure safe, secure management of our uranics inventory.	2018/21

Integrated Waste Management

The various activities of the site produce wastes in many forms. These require varying degrees of treatment and onward processing. The site will continue to focus on safe, efficient management of these wastes, including: the conversion of Highly Active Liquor (HAL) into passively safe vitrified waste; the return of vitrified material overseas; and the management of on-site intermediate and low level wastes.

Continue to process HAL through the Waste Vitrification Plant.	2018/21
Continue the programme to repatriate overseas owned vitrified waste to its country of origin.	2018/21
Continue to generate savings and preserve capacity at the LLW Repository by diversion of materials into the supply chain for alternate treatment.	2018/21
Continue the programmes to receive and treat waste materials from Harwell and AWE Aldermaston.	2018/21

KEY



Major milestones

Key Activities	Timescale
Critical Enablers	
A number of key enabling activities require specific focus, ranging from infrastructure refurbishmer projects, in support of the above activities, through to key change programmes which aim to impro and efficiency on site.	
Continue the Sellafield security and resilience enhancement programme.	2018/21
Continue with improvements to the site utilities infrastructure.	2018/21
Continue the Sellafield Limited Transformation to support future business requirements.	2018/21
Continue the project to improve and replace Analytical Services.	2018/21
Progress the improvement of project delivery on site.	2018/21
Support Small and Medium Enterprise organisations by targeting overall spend with them in line with the government Growth Agenda.	2018/21
Continuation of information assurance activities and supporting processes.	2018/21
Prepare the business to move out of reprocessing.	2018/21
Implement and embed the long-term partnership with the supply chain in Major Projects (Programme and Project Partnership - PPP).	2018/21
Work collaboratively with NuGen to manage issues and opportunities arising from the neighbouring Moorside site.	2018/21
Progress with the project to provide contingency against failure of vessels and pipework in the Site Ion Exchange Plant.	2018/21
Regulatory Control	
Continue joint working between Office for Nuclear Regulation, Environment Agency, Sellafield Ltd, NDA, UKGI and BEIS with the overriding objective of accelerating risk and hazard reduction.	2018/21
Reduce environmental risk (including retrieval and treatment of legacy wastes, reduction of HAL stocks).	2018/21
Minimise discharges in line with UK discharge strategy.	2018/21
Ongoing delivery of the suite of improvements necessary to ensure that the site is resilient to severe events.	2018/21
Maintain an asset management regime that takes into account the impact of asset condition on meeting regulation.	2018/21



Magnox Limited

(Operated by PBO: Cavendish Fluor Partnership - Cavendish Nuclear and Fluor Corporation)

Magnox Ltd is the SLC responsible for the operation of 12 sites Berkeley, Bradwell, Chapelcross, Dungeness A, Harwell, Hinkley Point A, Hunterston A, Oldbury, Sizewell A, Trawsfynydd, Winfrith and Wylfa (see pictures below reading left to right, top to bottom).



Planned expenditure for 2018/19 - £490 million

The Magnox Business Plan is based upon the latest annual update of the Lifetime Performance Plan.

The NDA will monitor and assure performance, reporting on the delivery of the revised contract to termination and the associated contract fee milestones. Key milestones, known as Authority Milestones, are required to be delivered by defined dates.

The NDA requires Magnox SLC to support transition to the new operating model and to manage defueling of the Magnox reactor fleet; progress the preparations to enter Care and Maintenance, achieving a quiescent Interim State and ultimately Final Site Clearance of the Magnox sites.

Key Activities	Timescale
Site Decommissioning and Remediation	
Bradwell to achieve its Interim State and move into the effective Care and Maintenance phase.	2018/19
Continuation of estate decommissioning and demolition activities working towards Interim States.	2018/21
Continue preparations for Winfrith to enter its Interim State.	2018/21
Spent Fuels	
Completion of Magnox fuel flask fleet management and transfer responsibility to Sellafield Ltd.	2018/21 (complete 2019/21)
Completion of Wylfa defueling.	2018/21 (complete 2019/21)
Management of MOP9 and co-ordination of Magnox fuel management activities with Sellafield and Dounreay.	2018/21 (complete 2019/21)
Nuclear Materials	
Continuation of the programme for the transfer of nuclear materials.	2018/21
Integrated Waste Management	
Delivery of the Magnox elements of the estate-wide low level waste management plan including diversion to alternative treatment.	2018/21
Progression of activities to retrieve, process and package wastes.	2018/21
Asbestos management – Continued focus on the major risk of asbestos including production of an optimised, underpinned strategy for asbestos, without detriment to Care and Maintenance.	2018/21

KEY



Major milestones

Key Activities	Timescale
Critical Enablers	
Support to the Government in activities to deliver the new build agenda and preparations for decommissioning the AGR fleet.	2018/21
Continuation of information governance activities and supporting processes.	2018/21
Support Small and Medium Enterprise organisations by targeting overall spend with them in line with government Growth Agenda.	2018/21
Support to NDA in property activities to reduce NDA decommissioning liability and achieve best value on asset disposal.	2018/21
Development of Interim End State approaches, utilising revised management arrangements.	2018/21
Enacting management arrangements for Care and Maintenance state.	2018/21
Regulatory Control	
Ensuring the management arrangements for Interim State are determined and agreed with Regulators.	2018/21
NDA and Regulatory permissioning in support of the transfer of Nuclear Materials between sites.	2018/21
NDA and Regulatory permissioning in support of the Interim End State definition and arrangements for Winfrith.	2018/21



27 hectare site in Gloucestershire.

11 hectares have been de-designated.

Modification of Designating Direction signed by the Minister in January 2012.

16 hectares remain covered by the nuclear site licence.

Current key milestones

2023 - Site enters Care and Maintenance

2070 - Final Site Clearance begins

2079 - Final Site Clearance achieved

Key Activities	Timescale
Integrated Waste Management	
Continuation of retrieval and packaging activities in the active waste vaults.	2018/21
Continuation of design and commissioning of shielded area waste retrieval equipment.	2018/21 (complete 2019/21)
Continuation of waste retrieval plant design, commissioning and packaging.	2018/21
Design and Build of encapsulation facility.	2018/21 (complete 2019/21)
Site Decommissioning and Remediation	
Decommissioning and demolition activities ongoing in preparation for entry into Care and Maintenance.	2018/21
Regulatory Control	
NDA and Regulatory permissioning in support of Care and Maintenance entry definitions and transitional arrangements.	2018/19
NDA and Regulatory permissioning in support of the Berkeley ILW Management Programme.	2018/21
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/21



20 hectare site in Essex.

All 20 hectares remain covered by the nuclear site licence.

Current key milestones

2018 - Site enters Care and Maintenance

2083 - Final Site Clearance begins

Key Activities	Timescale
Site Decommissioning and Remediation	
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	2018/19
Ponds complex and contaminated structures (vaults) completed for entry into Care and Maintenance.	2018/19
Completion of final closures for Reactor buildings safestore.	2018/19
Site completes activities to enable entry into effective Care and Maintenance.	2018/19
Interim State of lead site achieved.	2018/19
Integrated Waste Management	
Completion of transition management arrangements for Care and Maintenance.	2018/19
Ongoing monitoring of Care and Maintenance phase.	2019/21
Regulatory Control	
NDA and Regulatory permissioning in support of Care and Maintenance entry definitions and transitional arrangements.	2018/19
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/19

Chapelcross

96 hectare site in Dumfries and Galloway. All 96 hectares remain covered by the nuclear site licence.

Current key milestones

2025 - Site enters Care and Maintenance

2085 - Final Site Clearance begins

2095 - Final Site Clearance achieved

Key Activities	Timescale
Site Decommissioning and Remediation	
Continuation of pond operations.	2018/19
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	2018/21
Preparations for pond draining and stabilisation.	2019/21
Integrated Waste Management	
ILW retrievals.	2018/19
Interim storage facility constructed and commissioned.	2018/19
Encapsulation facility Design and Build complete.	2019/21
Regulatory Control	
NDA and Regulatory permissioning in support of the Care and Maintenance entry definitions and transitional arrangements.	2018/21
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/21

Dungeness A

20 hectare site in Kent.

All 20 hectares remain covered by the nuclear site licence.

Current key milestones

2025 - Site enters Care and Maintenance

2087 - Final Site Clearance begins

Key Activities	Timescale
Site Decommissioning and Remediation	
Ponds cleaned and stabilised.	2018/19
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	2018/21
Integrated Waste Management	
Increase waste conditioning facility capability.	2018/19
Retrievals, treatment and transport of ILW.	2018/21 (complete 2019/21)
Bulk asbestos removal from reactor buildings.	2018/21 (complete 2019/21)
Regulatory Control	
NDA and Regulatory permissioning in support of the Care and Maintenance entry definitions and transitional arrangements.	2018/21
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/21



108 hectare site in Oxfordshire.

22 hectares have been de-designated.

Modification of Designating Direction signed by the Minister in December 2012 and July 2017.

86 hectares remain covered by the nuclear site licence.

Current key milestones

2027 - Primary facilities decommissioning complete

2027 - Reactor decommissioning complete

2027-28 - Interim State achieved

2064 - Final site clearance achieved

Key Activities	Timescale
Site Decommissioning and Remediation	
Continuation of Liquid Effluent Treatment Plant (LETP) area environmental restoration.	2018/21
Decommissioning and demolition activities.	2018/21
Nuclear Materials	
Continuation of the programme for the transfer of nuclear materials and contact-handled ILW.	2018/21
Integrated Waste Management	
Completion of ILW Store construction.	2018/19
Recovery, processing and packaging of solid ILW.	2018/21
Preparations for decommissioning of radium chemistry facilities.	2018/21
Regulatory Control	
NDA and Regulatory permissioning in support of decommissioning and demolition activities.	2018/21
NDA and Regulatory permissioning in support of the Care and Maintenance entry definitions and arrangements.	2018/21
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/21

Hinkley Point A

20 hectare site in Somerset.

All 20 hectares remain covered by the nuclear site licence.

Current key milestones

2027 - Site enters Care and Maintenance

2081 - Final Site Clearance begins

Key Activities	Timescale
Site Decommissioning and Remediation	
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	2018/21
Complete deplant and demolition of Turbine Hall.	2018/21 (complete 2019/21)
Integrated Waste Management	
Complete Wet Waste and Vessel consolidations.	2018/19
Continuation of FED retrieval activities.	2018/21
Continuation of ILW skip management arrangements.	2018/21
Complete waste conditioning facility construction and commissioning.	2018/21 (complete 2019/21)
Continue preparations for Sludge Canning Building waste retrievals.	2018/21
Commence Interim Storage Facility construction and commissioning.	2019/21
Regulatory Control	
NDA and Regulatory permissioning in support of the Care and Maintenance entry definitions and arrangements.	2018/21
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/21

Hunterston A

15 hectare site in Ayrshire.

All 15 hectares remain covered by the nuclear site licence.

Current key milestones

2024 - Site enters Care and Maintenance

2071 - Final Site Clearance begins

2080 - Final Site Clearance achieved

Key Activities	Timescale
Site Decommissioning and Remediation	
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	2018/21
Integrated Waste Management	
Completion of solid ILW encapsulation plant construction and mechanical and electrical installation.	2018/21 (complete 2019/21)
Progressing of ILW retrievals, processing and storage activities.	2018/21
Completion of inactive commissioning of solid ILW encapsulation plant.	2019/21
Regulatory Control	
NDA and Regulatory permissioning in support of the Care and Maintenance entry definitions and transitional arrangements.	2018/21
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/21

Oldbury

47 hectare site in South Gloucestershire.

32 hectares have been de-designated.

Modification of Designating Direction signed by the Minister in January 2012.

15 hectares remain covered by the nuclear site licence.

Current key milestones

2027 - Site enters Care and Maintenance

2092 - Final Site Clearance begins

Key Activities	Timescale
Site Decommissioning and Remediation	
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	2018/21
Complete ponds decommissioning preparations.	2018/21 (complete 2019/21)
Complete ponds draining, cleaning and stabilisation.	2019/21
Integrated Waste Management	
ILW retrieval enabling works.	2018/21 (complete 2019/21)
Progression of activities supporting consolidated ILW storage.	2018/21
Commence retrievals, treatment and transport of ILW.	2018/21
Regulatory Control	
NDA and Regulatory permissioning in support of the Care and Maintenance entry definitions and transitional arrangements.	2018/21
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/21

Sizewell A

14 hectare site in Suffolk.

All 14 hectares remain covered by the nuclear site licence.

Current key milestones

2027 - Site enters Care and Maintenance

2088 - Final Site Clearance begins

2097 - Final Site Clearance achieved

Key Activities	Timescale
Site Decommissioning and Remediation	
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	2018/21
Continuation of ponds decommissioning.	2018/21
Ponds draining and stabilisation.	2018/21 (complete 2019/21)
Integrated Waste Management	
FED retrievals.	2018/21 (complete 2019/21)
ILW retrieval enabling works.	2018/21 (complete 2019/21)
Progression of activities to support consolidation of ILW storage.	2018/21
Commencement of retrievals, treatment and transport of ILW.	2019/21
Regulatory Control	
NDA and Regulatory permissioning in support of the Care and Maintenance entry definitions and arrangements.	2018/21
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/21

Trawsfynydd

15 hectare site in North Wales.

All 15 hectares remain covered by the nuclear site licence.

Current key milestones

2029 - Site enters Care and Maintenance

2074 - Final site clearance begins

Key Activities	Timescale
Site Decommissioning and Remediation	
Continue developing strategy for ponds End State conditions.	2018/21
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	2018/21
Integrated Waste Management	
Completion of sludge and resin encapsulation.	2018/19
FED retrievals and encapsulation.	2018/21
Regulatory Control	
NDA and Regulatory permissioning in support of decommissioning and demolition activities.	2018/21
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/21



96 hectare site in Dorset.

7 hectares have been de-designated.

Modification of Designating Direction signed by the Minister in March 2014. 89 hectares remain covered by the nuclear site licence.

Current key milestones

2022 - DRAGON reactor complex decommissioning complete

2023 - Steam Generating Heavy Water Reactor (SGHWR) complex decommissioning complete

2023 - Interim End State achieved

Key Activities	Timescale
Site Decommissioning and Remediation	
SGHWR – development of the detailed design to remove the reactor core.	2018/19
SGHWR – completion of primary containment decommissioning activities.	2018/19
DRAGON – continue reactor decommissioning.	2018/21
SGHWR – continue design and build of reactor decommissioning equipment.	2018/21
SGHWR – continue decommissioning of the primary and secondary containment areas.	2018/21
Decommissioning and demolition activities.	2018/21
Integrated Waste Management	
Commence consolidation of packaged ILW in the Harwell store.	2019/21
Regulatory Control	
NDA and Regulatory permissioning in support of decommissioning and demolition activities.	2018/21
NDA and Regulatory permissioning in support of the Interim End State Definition and arrangements for Winfrith.	2018/21



21 hectare site in Anglesey.

All 21 hectares remain covered by the nuclear site licence.

Current key milestones

2026 - Site enters Care and Maintenance

2097 - Final Site Clearance begins

Key Activities	Timescale	
Site Decommissioning and Remediation		
Decommissioning and demolition activities in preparation for entry into Care and Maintenance.	2018/21	
Provision of support and assets to nuclear new build.	2018/21	
Spent Fuels		
Defueling activities in line with MOP9 (ref 4).	2018/21	
Completion of Wylfa defueling in line with MOP9 (ref 4).	2019/21	
Integrated Waste Management		
Continuation of ILW retrievals and packaging.	2018/21	
Continuation of waste retrieval enabling activities.	2018/21	
Regulatory Control		
Preparations for fuel free verification agreement with the ONR.	2018/19	
NDA and Regulatory permissioning in support of the Care and Maintenance entry definitions and arrangements.	2018/21	
Ensuring the management arrangements for Care and Maintenance are determined and agreed with Regulators.	2018/21	
Complete fuel free verification agreement with the ONR.	2019/21	

Dounreay





Dounreay Site Restoration Limited (DSRL is owned by a parent body (PBO) - Cavendish Dounreay Partnership Limited comprising Cavendish Nuclear, CH2M Hill & AECOM)

DSRL is contracted to carry out the decommissioning of the Dounreay site as well as the operation of the Low Level Waste (LLW) disposal facility next to the licensed site. In March 2015, a revised Lifetime Plan was approved, incorporating scope to move material from Dounreay to Sellafield, that had not been agreed or finalised when the original contract was signed. In July 2015, this scope was further updated. Dounreay will continue to deliver within its assigned annual site funding limits, while also delivering the additional scope. The contract extension required for the additional scope is still earlier than the pre-competition baseline for achieving Interim End State. The activities below give the current understanding of the updated plans and are subject to change.

Planned expenditure for 2018/19 - £192 million

60 hectare site (plus 12 hectares designated for LLW facility) in Caithness.

60 hectares remain covered by the nuclear site licence, the 12 for the LLW facility are designated but not licensed. Modification in designating direction signed by the Minister in Jan 2012.

Current key milestones

2025 - All fuel in long-term storage or shipped off site.

2025 - Dounreay Fast Reactor (DFR) dismantled.

2026 - Prototype Fast Reactor (PFR) dismantled.

2028 - Shaft and Silo encapsulation complete.

2030 - Site clearance and environmental restoration phase 3 complete.

2030-33 - Interim End State achieved.

Key Activities	Timescale
Site Decommissioning and Remediation	
Dounreay Materials Test Reactor (DMTR) building complex structures demolished (excluding the reactor).	2018/19
Decontamination facility (D2900) handover to demolition.	2019/21
Complete POCO of Dounreay Cementation Plant (D2700).	2020/21
Marshall Labs decontaminated suitable for demolition.	2020/21
D1200 lab 79 decommissioned.	2020/21
Spent Fuels	
Exotics – complete delivery of all unirradiated fuels.	2018/19
Complete delivery of all fuels from DFR.	2020/21
Integrated Waste Management	
Liquid metal hazard at DFR eliminated.	2019/21
Critical Enablers	
Support small and medium enterprise (SME) organisations by measuring and reporting overall spend with them, in-line with the government growth agenda.	2018/21
Regulatory Control	
NDA and Regulatory permissioning in support of the Interim End State Definition and arrangements for Dounreay.	2018/21







Low Level Waste Repository Limited (Operated by PBO - UK Nuclear Waste Management Limited - AECOM, Studsvik UK, Areva)

Low Level Waste Repository Limited (LLWR) is responsible for both the operation of the LLW site and the delivery of the National Low Level Waste Programme on behalf of the NDA. We have notified UKNWM the Parent Body Organisation for the LLWR contracts that we are awarding the third term.

Planned expenditure for 2018/19 - £79 million

99 hectare site in Cumbria.

All 99 hectares remain covered by the nuclear site licence.

Current key milestones

2019 - PCM decommissioning complete.

2019 - Security programme complete.

2024 - Type B programme complete.

2025 - Final capping of Vault 8.

Key Activities	Timescale
Site Decommissioning and Remediation	
Complete decommissioning of Plutonium Contaminated Material (PCM) facilities.	2018/19
Ongoing site preparation for phased construction of the final cap for trenches 1 to 7 and Vault 8.	2018/21
Integrated Waste Management	
Delivery of the National LLW Programme to optimise LLW Strategy implementation. Work with consigning SLC's to improve waste forecasts and inventory and continue segregated waste, treatment and disposal services.	2018/21
Work with the NDA to support innovation in approaches to waste management.	2018/21
Type B Programme fleet commences key transport scope.	2018/21
Critical Enablers	
Complete Site Security Programme.	2018/19
Support hazard reduction across the NDA estate.	2018/21
Manage and operate LLWR safely to provide an effective UK disposal service.	2018/21
Consideration of options to further optimise operations at the LLWR.	2018/21
Continue to pursue overall cost savings in delivery of the Lifetime Plan.	2018/21
Support Small and Medium Enterprise organisations by targeting overall spend with them in line with the government Growth Agenda.	2018/21

Springfields



Springfields Fuels Limited (Owned by Westinghouse Electric UK Holdings Ltd)

Planned expenditure for 2018/19 - £20 million

Springfields is a nuclear fuel manufacturing site and is located near Preston in Lancashire. The site is operated by Springfields Fuels Limited (SFL) and used to manufacture a range of fuel products for both UK and international customers and decommissioning historic uranic residues and redundant facilities.

From April 2010, the NDA permanently transferred ownership of the company to Westinghouse Electric including the freedom to invest for the future under the terms of a new 150 year lease. SFL is contracted to provide defined decommissioning and clean up services to the NDA to address historic liabilities, prior to the transfer.

Key Activities	Timescale
Site Decommissioning and Remediation	
Progress decommissioning of the Magnox Fuel Production facilities.	2018/21
Continue management of historical legacy materials and facilities.	2018/21

Capenhurst



Urenco Nuclear Stewardship Ltd (Owned by URENCO Ltd - and formerly known as Capenhurst Nuclear Services Ltd)

Planned expenditure for 2018/19 - £55 million

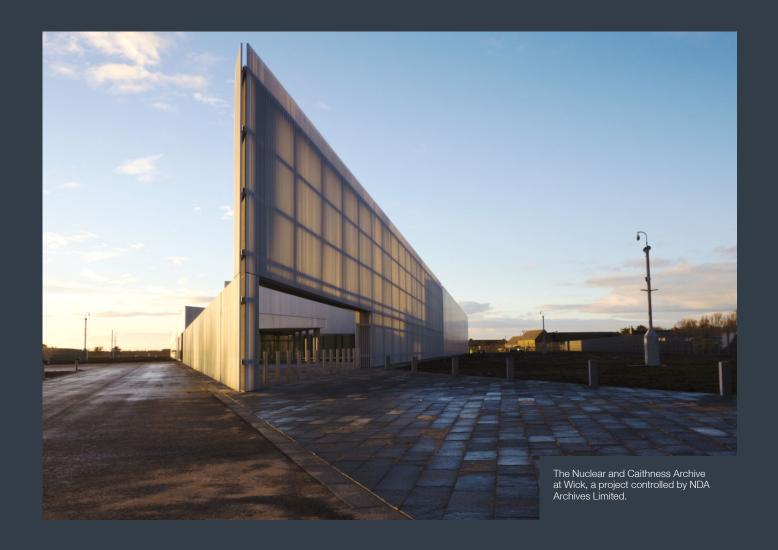
The NDA Capenhurst site is located near Ellesmere Port in Cheshire, and was formerly home to uranium enrichment plant and associated facilities that ceased operation in 1982.

In 2012, the site was transferred to URENCO, owners of the adjacent licensed site, and was amalgamated into a single nuclear licenced site, paving the way for URENCO to invest in new facilities, in order to meet future customer demand. As part of this transfer, URENCO established Urenco Nuclear Stewardship (UNS), formerly known as Capenhurst Nuclear Services, to provide responsible management of uranic materials and carry out remediation work on behalf of NDA. UNS manages 95% of the NDA's uranic inventory and provides broader decommissioning and remediation works for redundant facilities, in order to utilise space to maximise efficiency.

NDA and UNS have also signed an agreement for the processing of UK Government-owned by-product/legacy material from uranium enrichment (known as 'Tails') through URENCO's Tails Management Facility.

Key Activities	Timescale
Site Decommissioning and Remediation	
Progress Legacy Cylinder Facility Design.	2018/19
Continued safe storage of uranic materials.	2018/21

NDA Specialist Subsidiaries





Radioactive Waste Management Limited

RWM's vision¹ is a safer future by managing radioactive waste effectively, to protect people and the environment with our mission to deliver geological disposal and provide radioactive waste management solutions.

The UK Government's 2014 White Paper, "Implementing Geological Disposal" establishes NDA's role as the implementer in a consent-based process to develop a Geological Disposal Facility (GDF) for the UK's higher activity radioactive waste. In 2014, NDA established Radioactive Waste Management Limited (RWM) as its delivery body for a GDF.

The White Paper set out a programme of 3 initial actions to be completed before the siting process could begin (National Geological Screening led by RWM and two BEIS-led actions). These initial actions are now close to completion and the current planning assumption is that the GDF Siting Process will be launched later in the year.

This approach does not apply in Scotland. The Scottish Government has published 'Scotland's Higher Activity Radioactive Waste Policy 2011². Scottish Government Policy states that: "The long-term management of higher activity radioactive waste should be in near-surface facilities. Facilities should be located as near to the site where the waste is produced as possible".

Delivering a GDF for the UK is mission critical for both the Government and the NDA. The NDA currently has a major programme of decommissioning and waste management across Great Britain; retrieving, packaging and storing waste ready for disposal. A GDF provides an end point for that programme. A safe disposal route for waste is also critical to supporting the Government's nuclear new build programme, making sure the UK has access to safe, secure, affordable, low-carbon energy.

Waste is being retrieved and packaged now. Over 70,000 packages are already secured, safely in surface stores awaiting a GDF, and are accumulating at 3,000 packages per year. RWM works with the producers of radioactive waste to ensure that waste being packaged now is suitable for disposal in a future GDF. We also work with the NDA in support of waste management strategy development.

Key Activities 2018-2021

Support the launch of the geological disposal siting process in line with government policy.

Implement government policy on geological disposal of Higher Activity Waste (HAW) through effective engagement with willing communities in the delivery of a site for the construction and operation of a GDF.

Deliver a robust technical programme to drive our design and safety assessment work.

Develop Radioactive Waste Management Limited into a competent delivery organisation.

Work pro-actively with waste producers, planning for and delivering disposability assessments for their range of wastes.

Develop and implement joint Integrated Radioactive Waste Programme with LLWR.

¹ Radioactive Waste Management Corporate Strategy 2015 – 2018.

² RWM is working with the NDA and Scottish Government to establish how it should support implementation of Scottish Government policy.



Direct Rail Services Limited

Direct Rail Services (DRS) Limited was established in 1995 to provide a rail service for the transportation of nuclear material. DRS operates in non-nuclear business where it enhances our ability to deliver the core mission, ensuring they attract and retain people of the highest calibre and provide an environment that fosters innovation and operational excellence. DRS has developed and maintained an industry leading reputation for providing safe, secure, reliable and cost effective services within both the nuclear and non-nuclear related markets.

Key Activities 2018-2021

Delivery of the rail transport element in support of the completion of MOP (ref 4).

Support national nuclear material rail movements for Harwell, Winfrith and DSRL.

Support AGR fuel movements by rail for EDF from stations to Sellafield.

Support the discharge of NDA obligations with respect to MOD Nuclear rail transportation.

Provide value for money to the tax payer through the execution of identified non-nuclear work that compliments the skills and capabilities required to support the core nuclear mission.

Provide rail authority expertise to the NDA and consider areas of synergy between DRS and INS in support of the NDA's strategic transport capability review.

Programme manage the manufacture of new rail wagons to support Magnox and EDF.

Operate and maintain a fleet of locomotives to support NDA operations.

Attract and retain the necessary skills, capability and diversity of talent to deliver our rail logistics business in a safe, secure and reliable manner.



International Nuclear Services Limited

International Nuclear Services (INS) Limited manages a large portfolio of UK and international contracts for nuclear fuel recycling and transport services on behalf of the NDA. INS operates a subsidiary company, Pacific Nuclear Transport Limited (PNTL), the world's leading marine transporter of specialist nuclear materials.

Over the next 3 years, INS will continue its focus on the return of vitrified wastes to their country of origin. In addition INS will continue to provide transport services to existing international customers whilst also developing opportunities for new commercial business both internationally and in support of the UK decommissioning programme.

Key Activities 2018-2021

Continue the management of contracts with international customers for spent fuel business.

Manage uranium and plutonium services for international spent fuel business.

Transport nuclear materials including Spent Fuel, Mixed Oxide (MOX) fuel, vitrified High Level Waste (HLW) and conditioned Intermediate Level Waste (ILW) internationally and shipments of materials under the US Government's Material Management and Minimisation (M3) initiative.

Support the NDA in the development and implementation of transport solutions to enable the UK decommissioning programme.

Continue, where appropriate, to seek opportunities for new business within shipping, transport package and system design for radioactive materials, and acting as an agent for the overseas sale of UK Intellectual Property in relation to spent fuel and waste management, nuclear decommissioning and transport.



NDA Archives Limited

NDA Archives Ltd operates as a separate delivery organisation for the provision of archive and records management services primarily to the NDA estate. We have established a number of Service and End User Agreements and are overseeing the management of a Commercial Partner (Restore Scan Limited) who is operating a purpose-built archive facility in Wick; Nucleus, the Nuclear & Caithness Archive.

Currently, very few of the NDA's information assets are managed to the standards required of us as a public authority. The NDA owns and is accountable for the records from across the estate and, accordingly, has developed a programme to manage them effectively from creation to destruction. The principal role of Nucleus is to consolidate and appropriately store these records ensuring that they remain secure, that their integrity stays intact (many of them will be required for 300+ years) and that they can be accessed in line with legislation and the relevant business requirements.

The facility became operational (and open to the public) on 14 February 2017 with the accessioning of both the entire Dounreay photographic collection and the Caithness Archive, the latter fulfilling a socio-economic commitment to the Dounreay community. Since then, other significant collections have also been relocated and it is expected that this aspect of the programme will continue for at least another 4 to 5 years.

Key Activities 2018-2021

Nucleus working in accordance with the National Archive's Accreditation Standards (regulatory best practice).

Complete relocation of the 'known' legacy archives, to include all ex-UKAEA records.

Complete relocation of all NDA-owned and archived records above OFFICIAL-SENSITIVE.

Continuing to work with interested third parties to potentially provide services to others outside the NDA estate.

Optimise usage of the Nucleus facility with respect to Business Continuity and Resilience Planning requirements of the NDA and its estate.



NDA Properties Limited

NDA Properties Limited primarily acts as a property management for assets outside the nuclear licence site boundaries, in accordance with the NDA's Land and Property Management Strategy. Over the next 3 years, NDA Properties Ltd will continue to optimise the use of assets for the benefit of the NDA, including undertaking selected developments, whilst disposing those surplus to requirements.

Key Activities 2018-2021

Effective and proactive management of the property portfolio.

Development of Off Site Command Facility at Moresby for Sellafield Ltd by 2019.

Development of offices at Warrington to replace Hinton House by 2021.

Disposal of surplus assets to raise capital receipts of circa £500,000 per annum.

Rutherford Indemnity Limited

Rutherford Indemnity Limited

Rutherford Indemnity Limited is registered in Guernsey and is regulated by the Guernsey Financial Services Commission. The company provides insurance cover for the NDA and its estate. Over the next 3 years, Rutherford will continue to focus on the provision of insurance cover, at competitive rates, to support the NDA programme, with particular focus on nuclear liability cover and provision of support for changes arising from expected revisions to the Nuclear Installations Act 1965.

Key Activities 2018-2021

Provide optimal insurance coverage to the NDA to support its estate-wide insurance programme and exploit opportunities to reduce overall cost of insurable risk.

Explore all avenues to develop potential innovative solutions to the increased financial security or insurance requirements resulting from the Nuclear Installations (Liability For Damage) Order 2016 and to respond to emerging demands for new or additional policy cover.

Continue to deliver the target return on the investment portfolio, protecting Rutherford's ability to offer insurance on a cost effective basis, maintaining liquidity in order to be able to respond promptly to major loss.

Continue to explore ways to use a prudent proportion of Rutherford's investment portfolio to support infrastructure investment in the NDA estate.

Implement new ways of working following changes in the group broking arrangements designed to improve efficiency and reduce costs.

Re-compete contract for management of Rutherford Indemnity Limited (captive management contract).

Glossary

AGR	Advanced Gas-Cooled Reactor	MDU	Magnox Depleted Uranium
BEIS	Department for Business, Energy and Industrial Strategy	MOD	Ministry of Defence
BEPPS	Box Encapsulation Plant Product Store	MOP9	Magnox Operating Programme
C&M	Care and Maintenance	MOX	Mixed Oxide Fuel
CNC	Civil Nuclear Constabulary	NDA	Nuclear Decommissioning Authority
DFR	Dounreay Fast Reactor	ONR	Office for Nuclear Regulation
DIF	Direct Import Facility	PBO	Parent Body Organisation
DMTR	Dounreay Material Test Reactor	PCM	Plutonium Contaminated Material
DRS	Direct Rail Services Ltd	PFR	Prototype Fast Reactor
FED	Fuel Element Debris	PNTL	Pacific Nuclear Transport Ltd
GDF	Geological Disposal Facility	PPP	Programme and Project Partner
HAL	Highly Active Liquor	QPR	Quarterly Performance Review
HAW	Higher Activity Waste	R&D	Research and Development
HLW	High Level Waste	SEP	Silo Emptying Plant
ILW	Intermediate Level Waste	SGHWR	Steam Generating Heavy Water Reactor
INS	International Nuclear Services Ltd	SLC	Site Licence Company
LETP	Liquid Effluent Treatment Plant	THORP	Thermal Oxide Reprocessing Plant
LLW	Low Level Waste	UK	United Kingdom
LLWR	Low Level Waste Repository	UKGI	UK Government Investments

References

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Useful links and documentation

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- 5. LLWR Ltd (www.llwrsite.com)
- 6. Dounreay Ltd (www.dounreay.com)
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