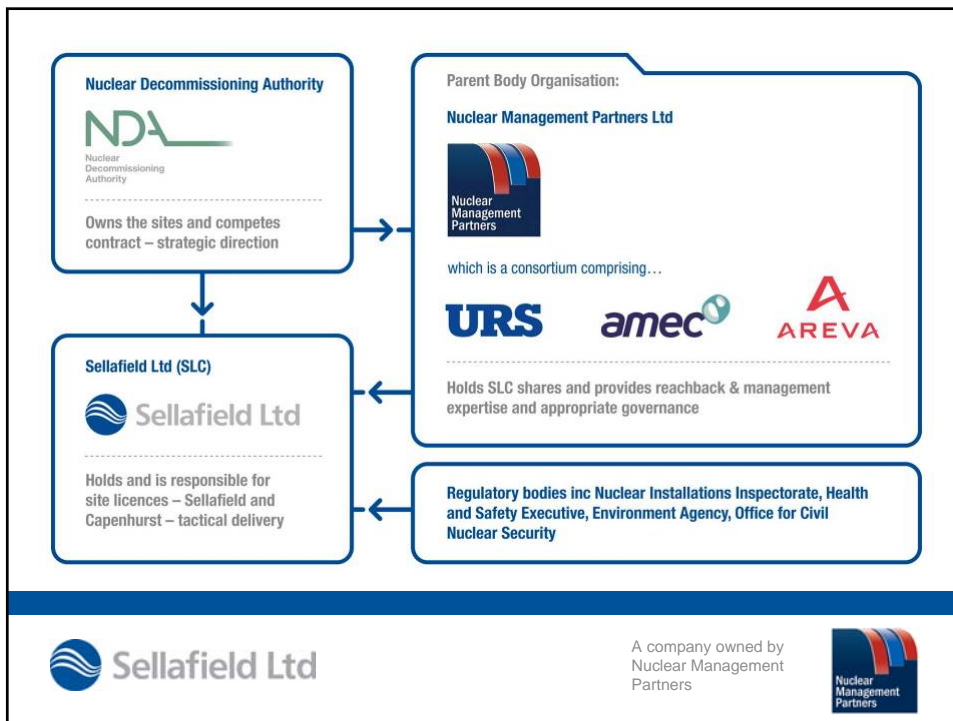


Sellafield Ltd – Developing the Decommissioning Strategy

Chris Halliwell

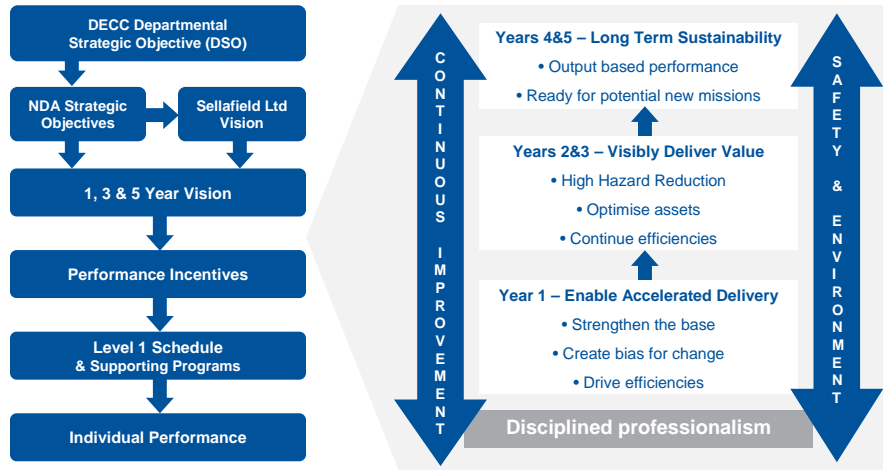
Head of Programme Delivery
Sellafield Ltd



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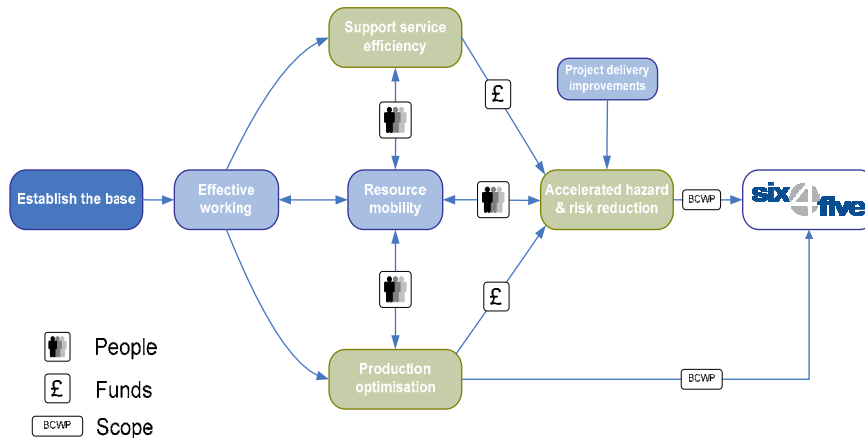
Alignment of Strategies and Objectives



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Delivering for the customer



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What is there to Decommission?

- 170 major nuclear facilities and 2200 other buildings dating from 1940 to 2006
- 1 million m³ of concrete above ground, 1 million m³ below ground
- 37km road, 15km railway, 120km sewers, 65km water
- 7km pipebridges (21 off), 16km ducts and trenches (333 off)
- 61,200 M³ of conditioned ILW
- Ongoing commercial operations until at least 2016

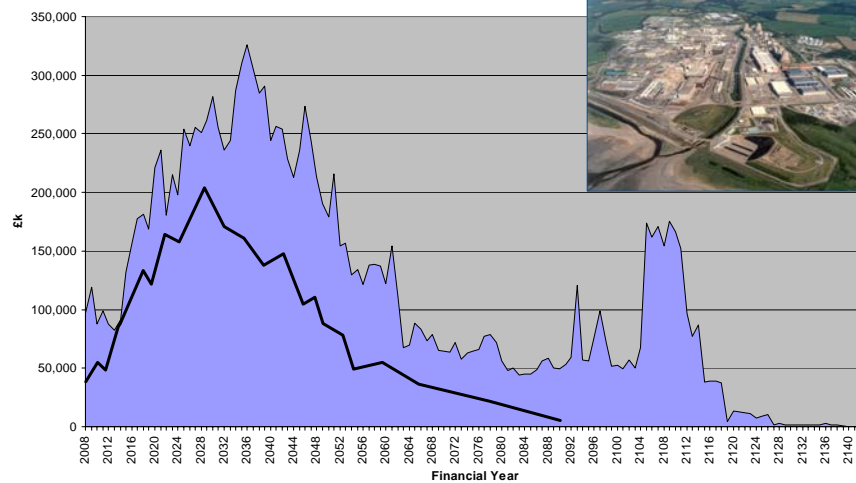
Decommissioning Waste Issues & Solutions



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The Decommissioning Challenge



Decommissioning Waste Issues & Solutions



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Decommissioning as a priority

- Decommissioning budget for 2010/11 ~ £460m
- Anticipated to grow steadily over next 10 years
- Lifetime costs estimated at ~£42Bn
- Currently employs 2450 Sellafield and ASW staff
- Significant supply chain support and expenditure
- Diversity of facilities to decommission
 - Legacy ponds & silos
 - Reactors
 - Reprocessing facilities
 - HA & ILW storage & processing facilities
 - Future plants to support decommissioning



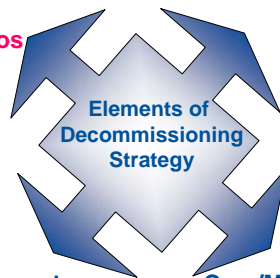
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Developing a decommissioning strategy

**Accelerating hazard
& risk reduction
in Legacy Ponds & Silos**

**Preparation for
“broadfront”
decommissioning**



**Transitioning Reprocessing
Facilities reaching end
of operational life**

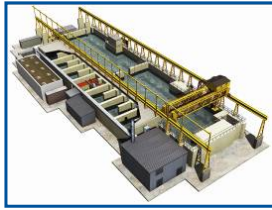
**Care/Maintenance of redundant
Legacy facilities and Development
of Decommissioning plans**



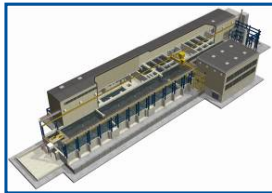
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High Hazard Legacy Facilities – Strategic intent



- Focus on short term risk reduction options
- “Out of the Box” thinking
- Selective application of ICP elements
- Exploit LC35 -Balance of Risk approach
- Programme focussed organisational structures



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Redundant Legacy Facilities – Strategic intent

- Diminish/Defer/Delete low added value scope
- Focussed decommissioning programmes aimed at risk reduction and maintaining/developing competency
- Care and maintenance regimes to support extended lifetime of facilities
- Workface/work packages developed to support targeted/opportunistic acceleration
- Demonstrate ALARP



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Existing Operational Facilities – Strategic intent

- Define standard arrangements to transition out of Operations
- Establish/seed Decommissioning expertise now
- Post Operational Clean Out (POCO)
- Enhanced POCO (as appropriate)
- Asset care and Maintenance programmes tailored to the decommissioning schedule
- Review of safety cases
- Training/Re-training programmes to support the transition
- Plant modifications to support future decommissioning



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Broadfront Decommissioning Readiness – Strategic intent

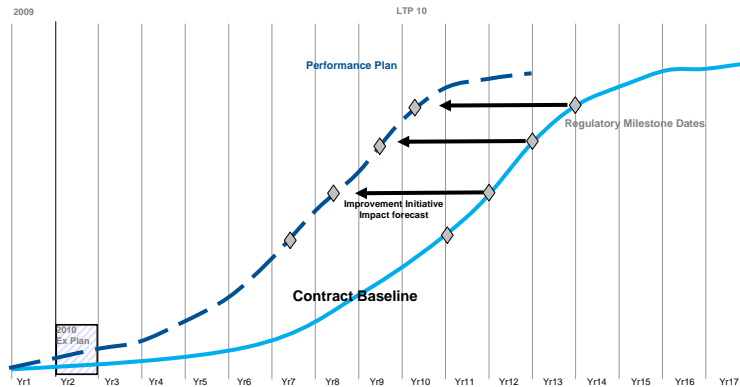
- Decommissioning Technical Development Programme
 - Concrete decontamination
 - Remote Handling/Robotics
 - Bulk decontamination
 - Alpha decommissioning
- Benchmarking best practice
- Decommissioning Skills Development
 - Professional engineering
 - NVQ
 - Decommissioning Trainee Scheme
 - Links with National Skills Academy
- Waste Forms
- Site/Facility End States



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Development of a Performance Plan



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Summary

- Integrated Decommissioning strategy for next 17 years built into LTP 2010
- Performance Plan aims to “beat the contract baseline”
- Key objective accelerated risk and high hazard reduction – a National priority?
- Deliver for stakeholders



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