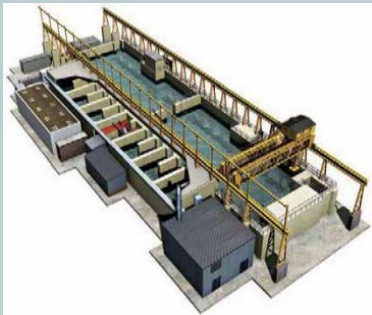


Legacy Ponds and Silos: Accelerating risk reduction

Alan Parry ,
Head of Strategy & Technical, Decommissioning

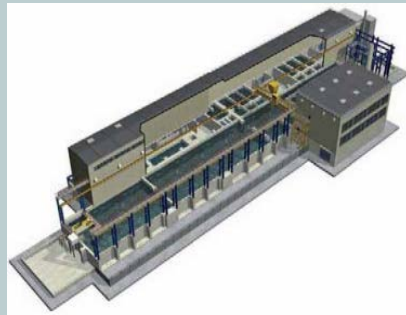
Legacy Ponds & Silos

Pile Fuel Storage Pond



- Constructed 1948-1952 to store Windscale fuel for reprocessing. Waste consists of sludge, fuel, intermediate and low level waste.

First Generation Magnox Storage Pond



- Constructed in 1950s and 1960s to store Magnox fuel for reprocessing. Waste consists of sludge, fuel, intermediate and low level waste.

Magnox Swarf Storage Silos



- Constructed 1960s-1980s to hold irradiated fuel canning waste. Received waste until 2000.

Pile Fuel Cladding Silo

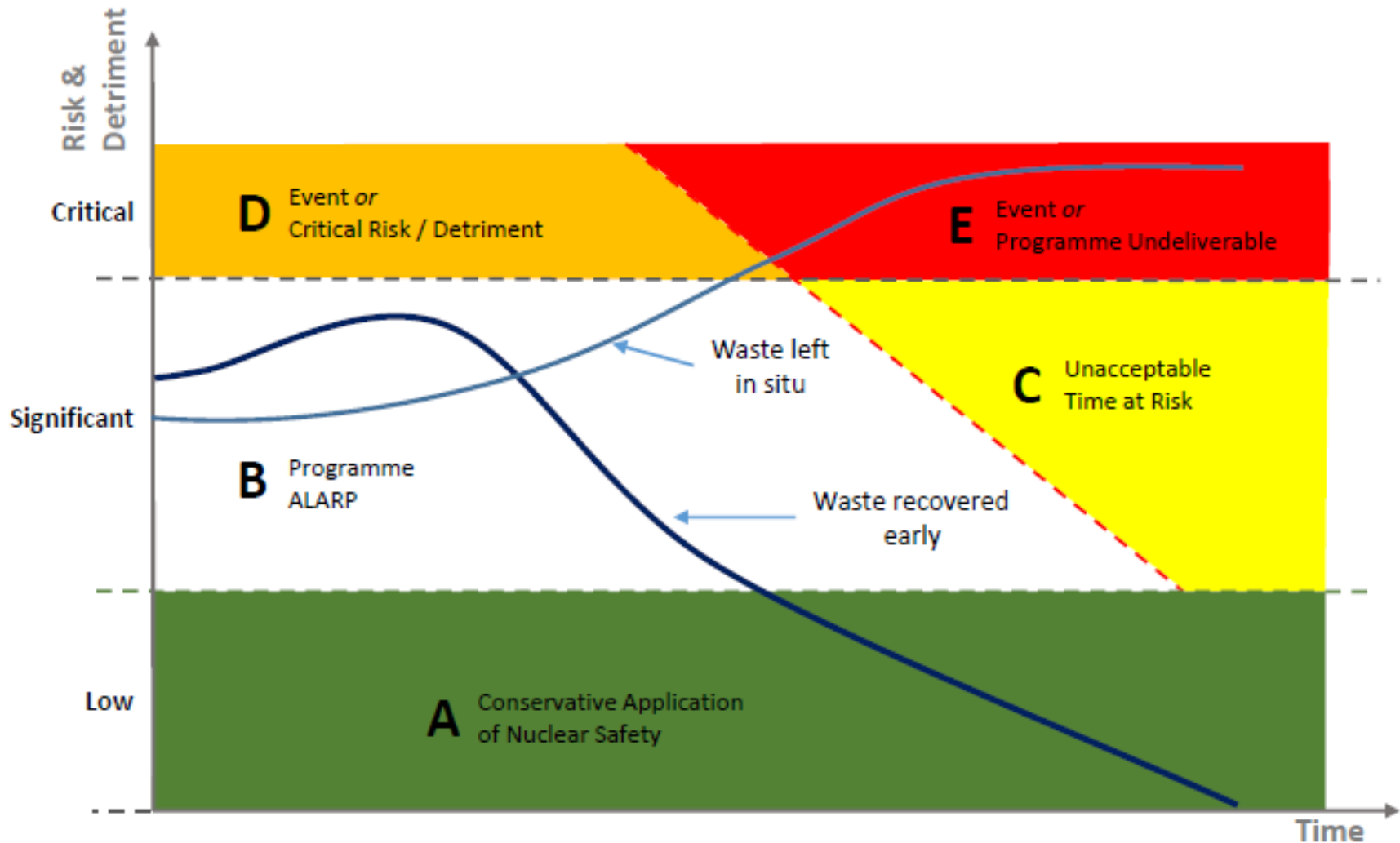


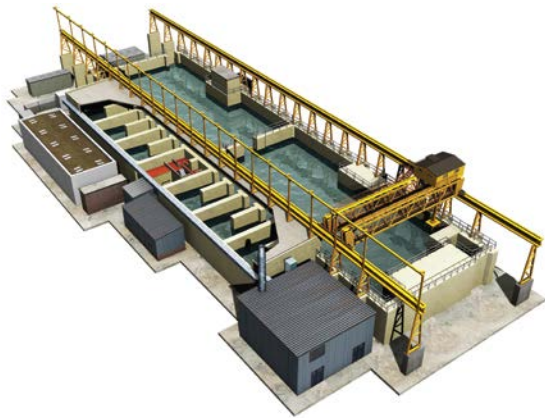
- Commissioned in 1952, 1st storage facility for intermediate level waste constructed at Sellafield. The silo was filled by 1964.



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A Risk Framework





Pile Fuel Storage Pond Acceleration

Recent milestone successes



Feb 2016: All bulk fuel removed. 70% reduction in radioactive content



Dec 2016: Start of sludge exports. Bulk sludge to be removed by 2022



Pond dewatering

2019

Start of Dewatering

2027

Further acceleration
Opportunity

2029

Pond Dewatered

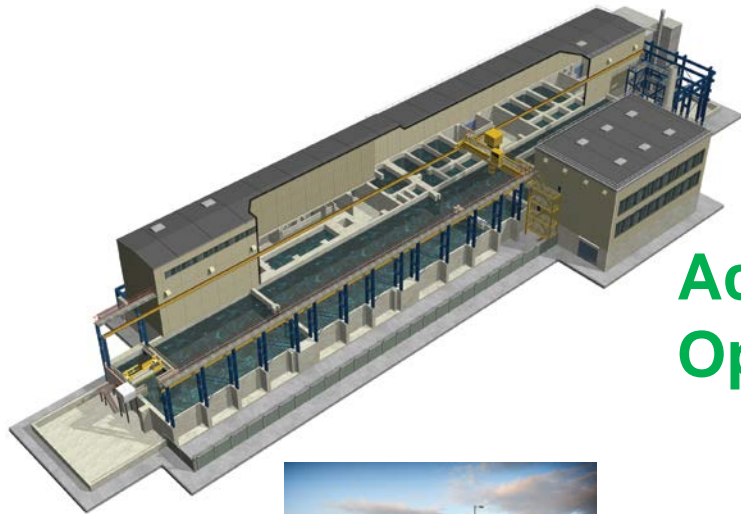
2040

Original Dewatering
schedule

First Generation Magnox Storage Pond

Acceleration Opportunities

Recent success



May 2017: Opportunity to utilise Fuel Handling Plant for Early Risk Reduction



2017: Opportunity to utilise Self-Shielded Boxes for storage/disposal



April 2016: Start of fuel and sludge exports. Bulk to be removed by 2022



2016

Moved into retrieval operations

??

Benefits of acceleration on schedule TBC

2048

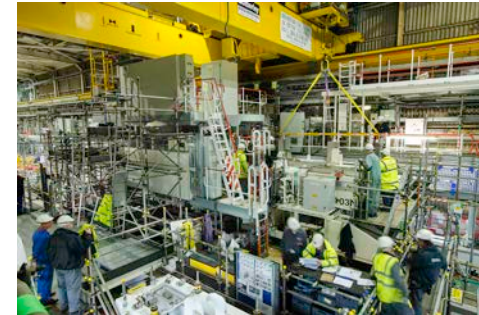
Existing schedule for completion of pond decommissioning



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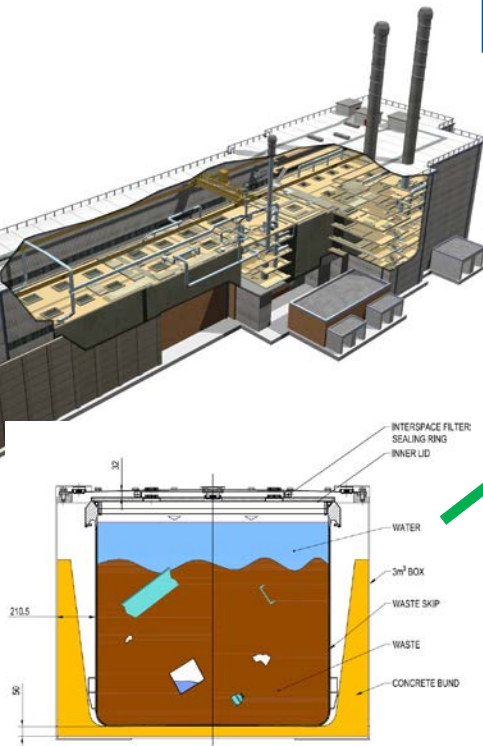
Magnox Swarf Storage Silo Acceleration

Recent success



Nov 2016: SEP2 waste retrievals machine assembled

October 2015: Alternative ILW Approach with simpler, entombed waste product



Start of retrievals

2019

Start of retrievals to EPS

2021

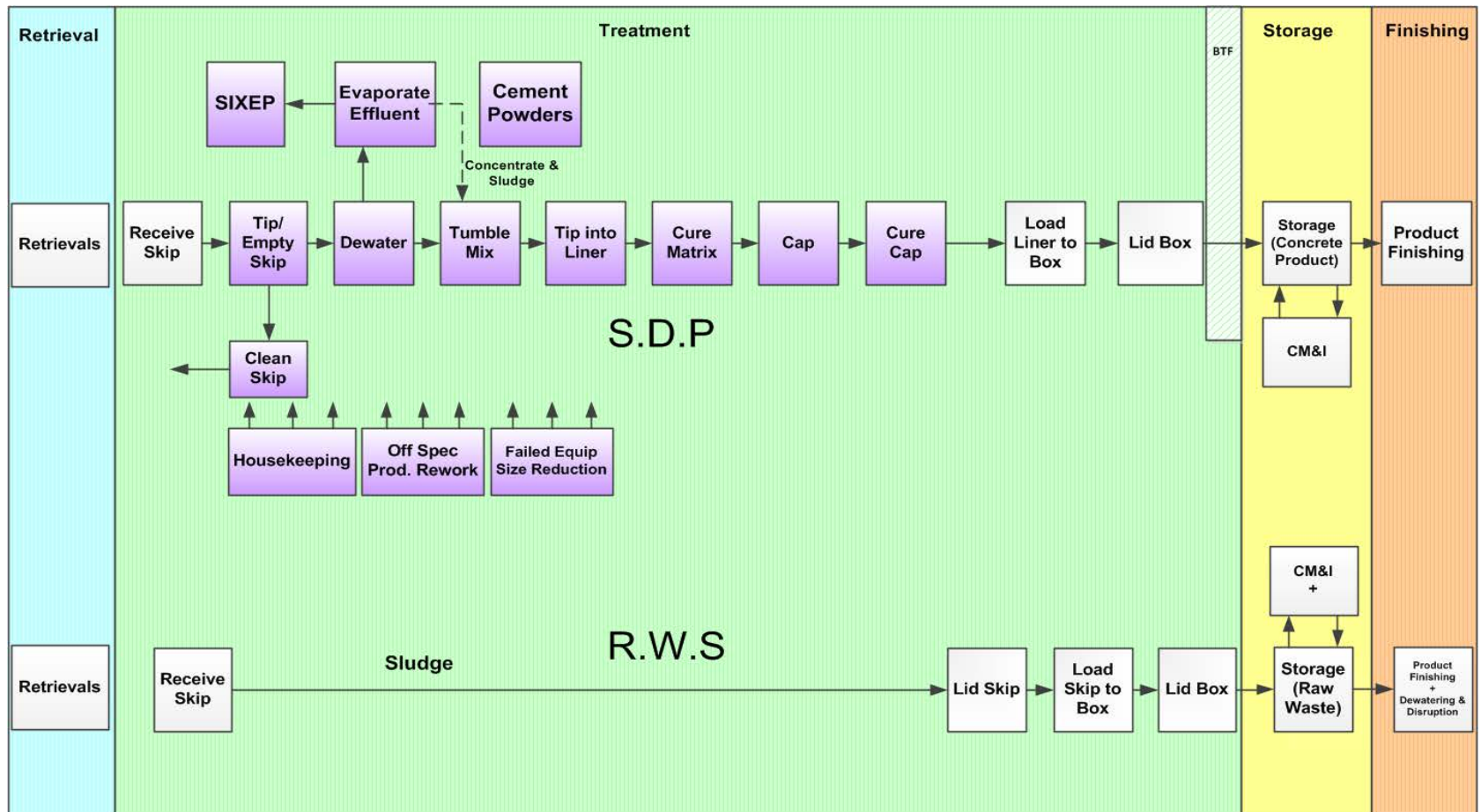
Start of retrievals to BEP

2026

Original start of sustained retrievals pre-alternative approach

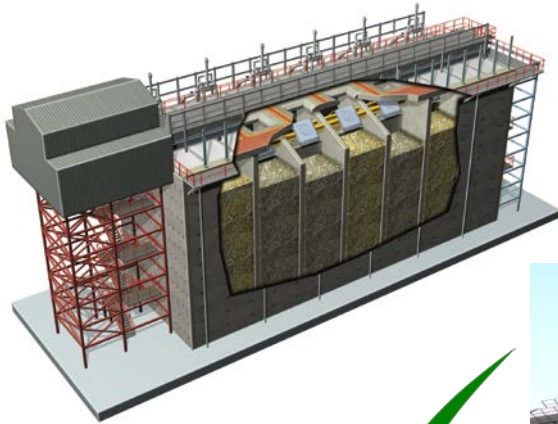
Magnox Swarf Storage Silo

From 22 steps to 3: the alternative ILW packaging and storage process



Pile Fuel Cladding Silo Acceleration

Recent milestones successes



June 2016: UK Govt approval of 'lead and learn' early retrievals approach



Nov 2016: All six retrieval access doors installed on silo



Start of retrievals

2019

Acceleration opportunity for retrievals

2020

Current forecast start of retrievals

2022

Original forecasted start of retrievals in PP14



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END