

Post Operational Clean Out

Operations Division

February 2016

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Sellafield Ltd

18 February 2016

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POCO – Post Operational Clean Out

ONR and NDA requirements are that Sellafield plants are subject to POCO directly after operations cease:

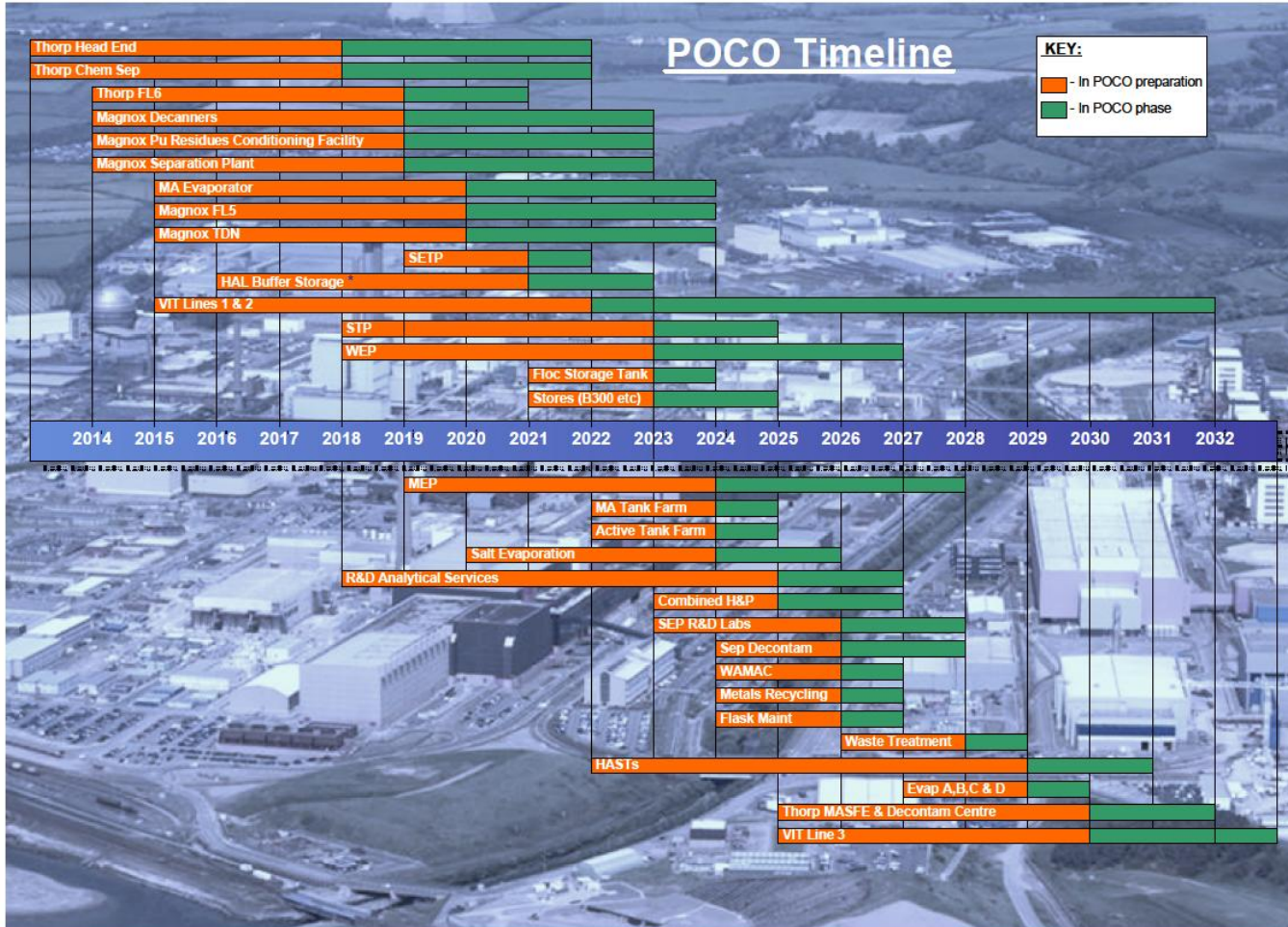
- Primary aim is to reduce risk and hazard from that plant
- Also to reduce the forward lifetime cost of that plant

Hence:

- POCO will aim to remove as much of the radioactive inventory as possible from the plant
- POCO will also aim to remove chemical and other potential environmental hazards from the plant
- POCO will aim to leave the plant in a safe, quiescent, and well-understood configuration suitable for eventual decommissioning
- The sequence of "decoupling" site facilities and taking them into POCO needs to be carefully considered
- The intent is also to reduce resource requirements for looking after the plant

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Operations Division POCO Timeline



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Vision for Implementation of POCO

- Our baseline planning for POCO delivery tasks aim to use:
 - the incumbent workforce with their knowledge, experience and skills
 - routine plant reagents
 - the normal established plant processes
 - the normally available waste routes
- POCO planning will aim at a defined facility post-POCO end state. POCO task delivery, carried out using an outage philosophy, aims to achieve this end state
- Even pre-POCO, facilities should look for opportunities to progress housekeeping and co-processing activities so as to reduce inventory, reduce the in-POCO burden, and make best use of existing waste routes and waste route capacity
- Early opportunities should also be taken to gain facility knowledge e.g. in-cell contamination and radiation levels (Facility Characterisation) and should be seen as a necessary ongoing activity

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POCO Programme

- Programme Set up 2013 to ensure that successful transitions are consistently achieved
- Aimed to produce overarching Strategy & Tactics
- A number of High Level POCO Strategies developed.
- Facility POCO Preparations and Delivery Tactics
- Links with Decommissioning developed
- Communications plan developed

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The POCO Programme Benefits

- Risk and hazard reduction
- Enable redeployment of resource and capability
- Lifecycle cost reduction
- Enhance Sellafield Ltd reputation

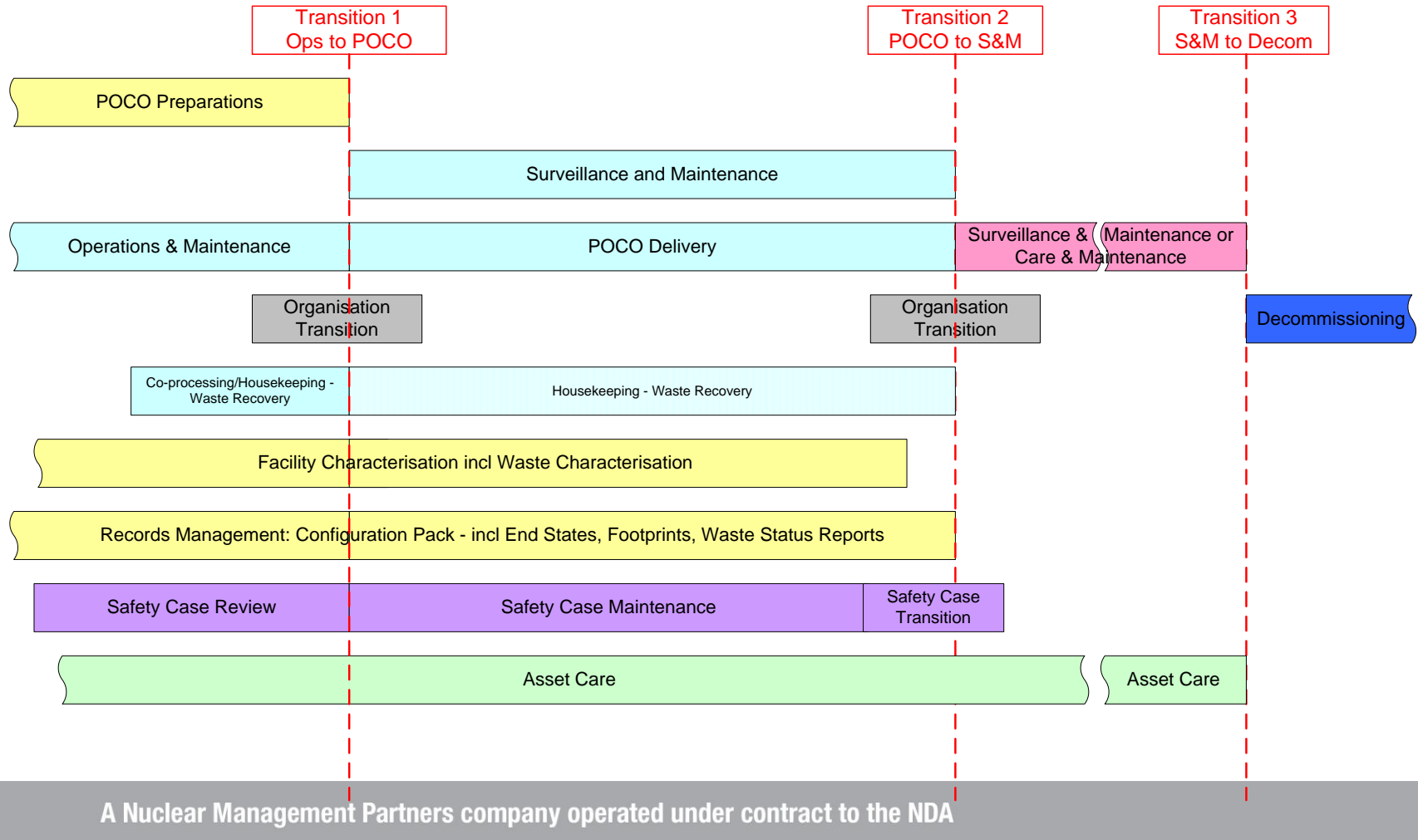
A key output of POCO needs to be **Knowledge**

- We need to create records of the plant configuration and status – and how we achieved that status. These records need to enable and support the safe and effective eventual decommissioning and demolition of the plant

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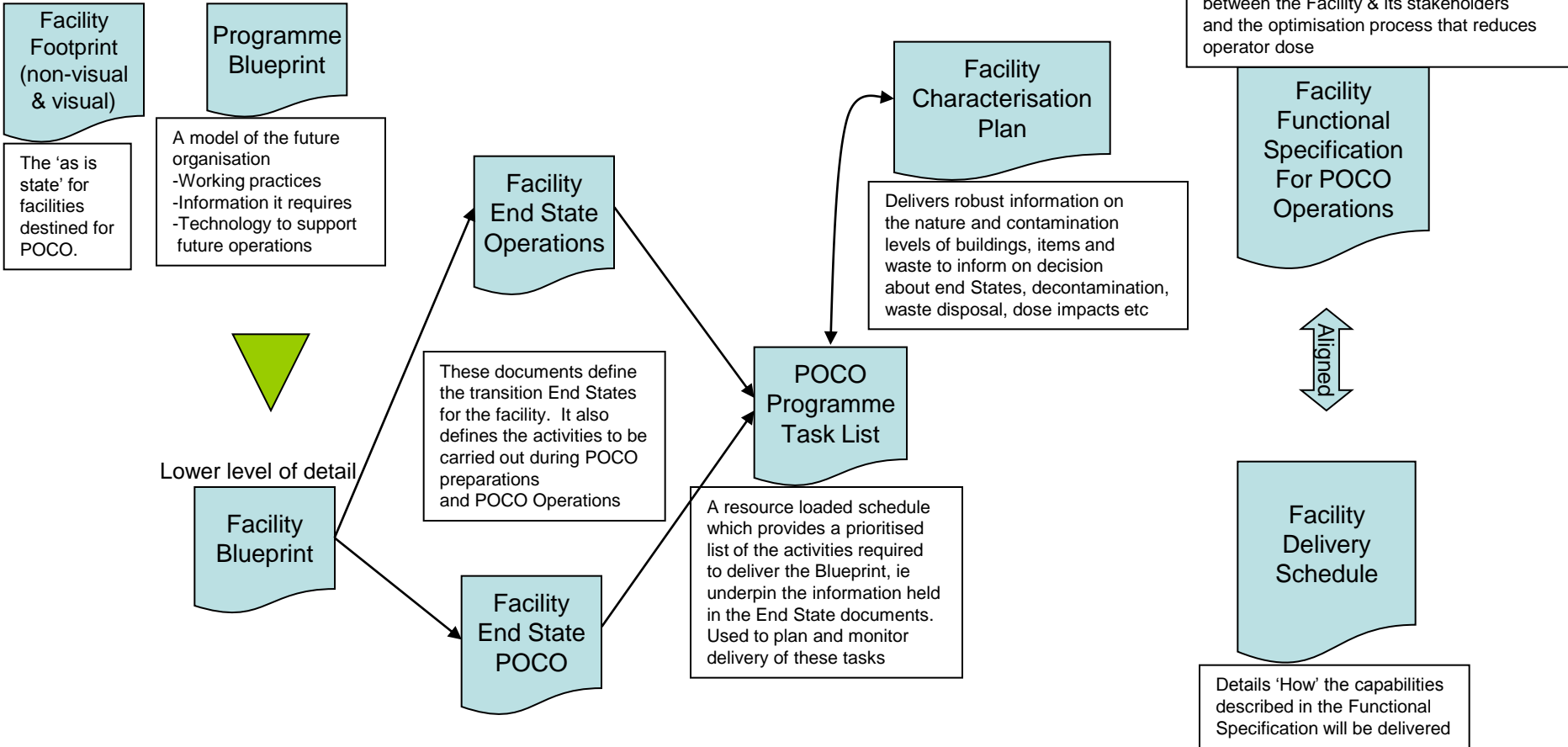


Standardised Timeline



Key POCO preparation deliverables

Specifies the overall capability that the facility requires to be delivered during POCO Operations as such it is key to managing scope & its governance. Key form of communication for agreement between the Facility & its stakeholders and the optimisation process that reduces operator dose



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Transition Planning

- The move from reprocessing in Magnox and Thorp to POCO is a significant transition facing the Site
- Transition preparations will cover process, organisation, technology and information; with organisation being of the most significant interest to the workforce
- Target organisation models are being developed which will inform the Site Capability Plan
 - It is likely that this will result in a reduced facility workforce
 - Ongoing support will still be required from most existing facilities and capabilities
 - Opportunities will exist around Site across a wide range of skill types
 - POCO in Operations Division
 - Ongoing operations on site
 - Commissioning and operations of new build plants on Site eg BEP, SDP etc
 - High hazard retrievals and broadfront decommissioning
 - Focus on skill matching and training for any skill gaps identified

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Stakeholder Engagement

- Early focus on Stakeholder Engagement – right from day 1
- New Stakeholder Management process developed
 - Commended at audit by external organisations
 - Seen as Best Practice by other areas of Sellafield Site
- Delivered in a phased approach
 - Right message to the right Stakeholder and the right time
 - Includes internal and external Stakeholders
- Resulted in
 - Increased awareness and knowledge of POCO across the Site
 - Positive feedback received, publicly endorsed by Union convenors
 - Enhanced reputation of the POCO Programme and it's team

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Conclusions

- The Sellafield POCO Programme has established a common and consistent approach to POCO at Sellafield.
- High level strategies and tactics have been set.
- Co-ordination across the various facilities has started.
- POCO task delivery is owned by the facility workforce.
- **Getting POCO right will deliver the benefits**

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