

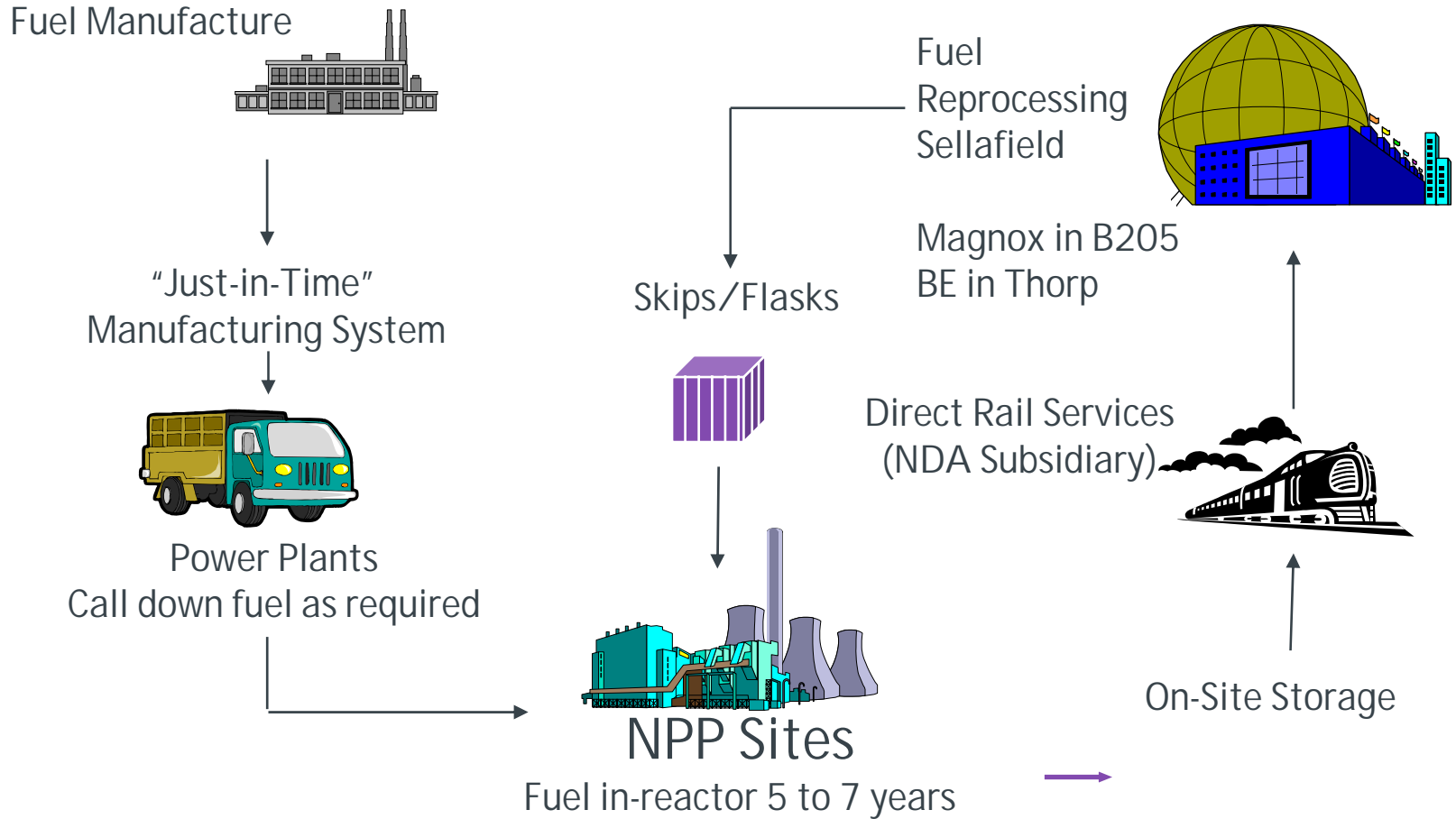
Pre NSG Brief MOP Update November 2008

Brian Burnett



Magnox Reprocessing

MOP - The Magnox Fuel Cycle



Magnox Reprocessing Plant Performance/Availability as at 13 October 2008

<i>Decanning Year to Date</i>	<i>334.1 Tes decanned against a YTD target of 330 Tes P(50)(including 4.27 Tes of corroded fuel)</i>
<i>Unplanned Outage and effective daily rate</i>	<i>Level of unplanned outage is 13% year to date [20/151days unplanned outage] c.f.15% assumed Average daily rates: 2.55 Te/day before unplanned outage, 2.21Te/Day after unplanned outage [compared to MOP8 P80 level of 2.05Te/Day]</i>
<i>FHP Availability</i>	<i>Inlet cell 1 - Undergoing camera repairs Inlet cell 2 - operational Inlet cell 3 - operational Sub-pond 1 - operational Sub-pond 3 - Basket to be re-seated (Sub-pond 2 - permanently OOS) D1- Operational, Decanner 2 No Gamma Gate available due to COSR interlocks project</i>
<i>B205 Availability</i>	<i>Engineering Outage</i>
<i>B268</i>	<i>Engineering Outage</i>
<i>MEP</i>	<i>Engineering Outage</i>
<i>Evaporators</i>	<i>Evaporator A available, Evaporator B Testing, Evaporator C in outage.</i>

Magnox Reprocessing Plant Performance/Availability as at 13 October 2008

*Fuel
delivered*

131 tes delivered against a YTD ME revised target of 148 tes

*MOP 8
Review*

Modelling complete and lifetime decanning and delivery profile agreed with Magnox Electric. To remove spurious accuracy from the programme, the P80 end date is now quoted as "before 31 March 2016"

Reprocessing Shutdown Headlines

Major Scope Items

- *B205 - CMc1 Change Tube Replacement, glovebox refurbishment (63N 59S)*
- *B268 - Salt Cell pump refurbishment, Concentrate Stock Tanks 2 & 3 refurbishment, R3 heat exchanger replacement*
- *PF&S - Dryer Furness lagging refurbishment - project under review*
- *MER - COSR work*

MER

- *Planned completion 07/12/08 - current forecast 07/12/08*

B205

- *Planned completion 07/12/08 - current forecast 17/12/08*

B268

- *Planned completion 07/12/08 - current forecast 07/12/08*

PF&S

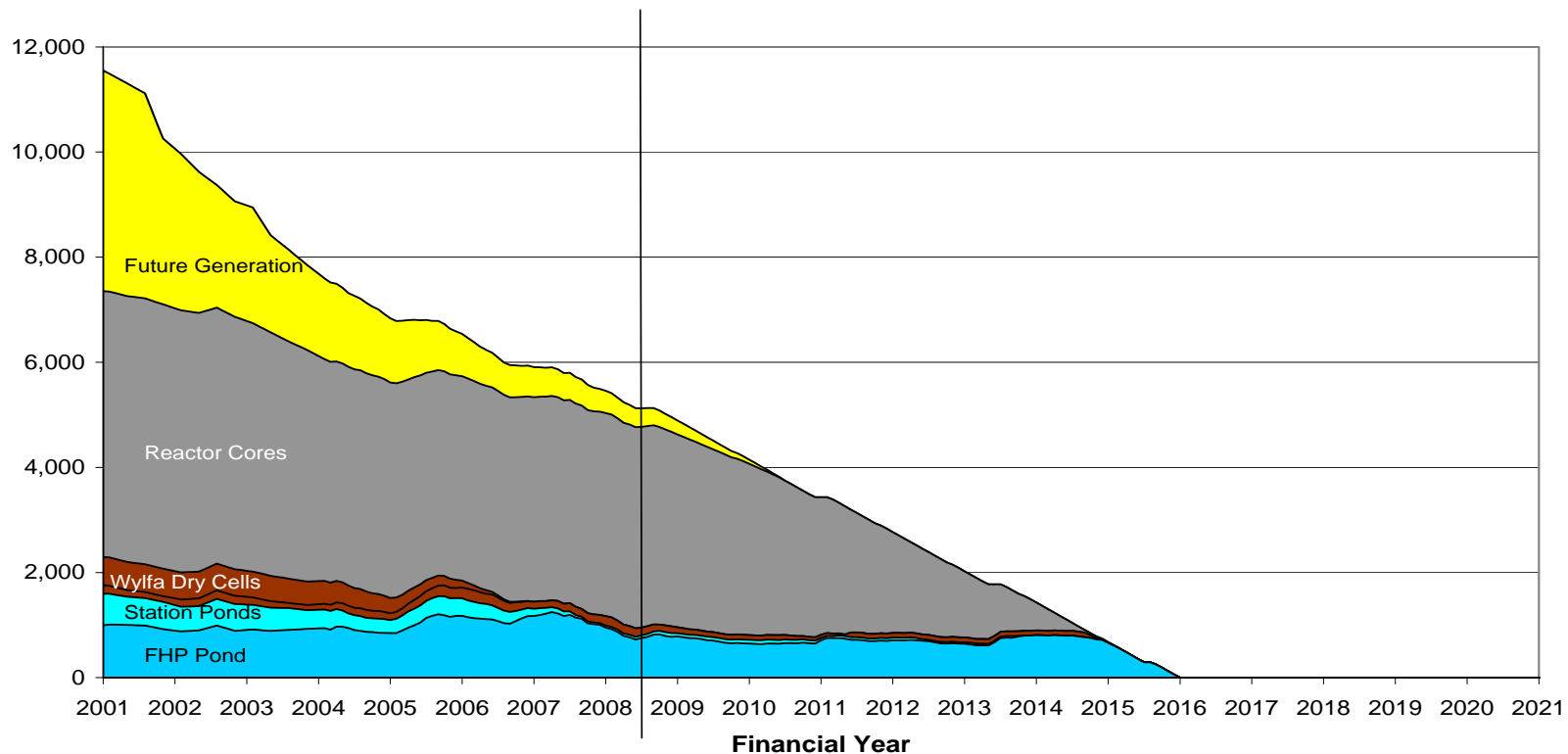
- *Planned completion 07/12/08 - current forecast 18/12/08*
- *Programme review to be completed by 10 October*

MEP

- *Planned completion 06/12/08 - current forecast 06/12/08*

MOP Fuel Processed and Remaining - October 2008

Total Remaining MOP Fuel to be Reprocessed



Tonnes Delivered to Sellafield Q2 08/09

	Week Number Q2 Target	26 Actual	Difference tU
Calder Hall	0.00	0.00	0.00
Chapelcross	5.78	0.00	-5.78
Dungeness	46.58	46.18	-0.40
Hinkley	0.00	0.00	0.00
Oldbury	0.00	0.00	0.00
Sizewell	0.00	0.00	0.00
Wylfa Primary	79.46	83.02	3.56
Wylfa DDR	0.01	0.01	0.00
Total	131.83	129.21	-2.62

Alternatives to Reprocessing & other issues

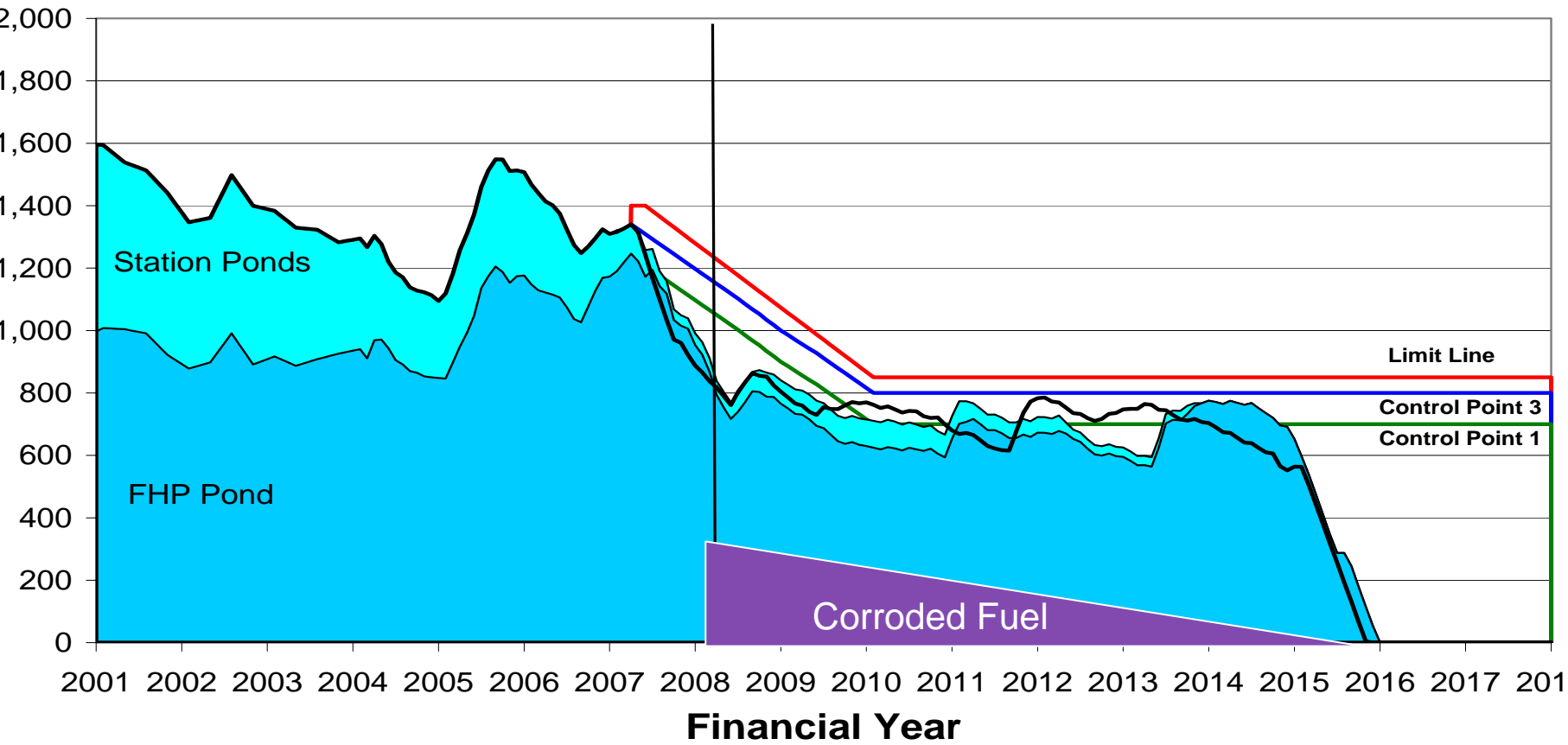
- *Encapsulation*
 - *Unlikely to be available within the MOP timescale*
- *Dry Storage*
 - *Likely to be technically feasible*
 - *US expert visited UK in June*
 - *Detailed feasibility study in progress*
- *Magnox through THORP*
 - *Significant technical issues remain*
 - *Design requirements under review*
- *Other issue*
 - *Demonstration Fast Reactor Fuel*
 - *Generation Optimisation*
 - *Flask Quality Assurance issues*

Recommendations to MOP Quarterly Review

- *There are no major changes to the risk profile*
- *The MOP completion date has not changed significantly since the MOP 8 Review forecast*
- *It is recommended that the MOP continues to the MOP 8 Review programme and strategy - (No plan to issue MOP 9)*
- *Dry storage as an alternative to reprocessing continues to be examined.*

- *END*

MOP8 Rev1 Wet Stock Forecast



Wet Stocks (08/09 and 09/10)

Magnox Wet Fuel Stocks (Site + FHP Pond)

