



Sellafield Ltd

Operating Experience at Sellafield



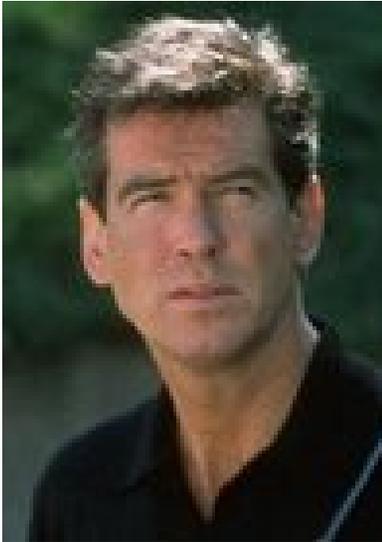
Operating Experience

Operating Experience at Sellafield

**USDOE OE Committee Meeting
August 25 - Knoxville Tennessee**

Jim Davis – OE Process Manager & Site Feedback Engineer

Who am I.....?



- **Jim Davis**
- >22 years on the Sellafield Site
- Radiological Protection
- Occupational Hygiene
- Safety Manager - Calder Hall
- OE Site Feedback Engineer & OE Process Manager since 2003

Sellafield – Cumbria - England



Situated on the coast of West Cumbria in NW England, Sellafield is one of the most complex nuclear sites in the world.

It has been the centre of the UK's nuclear programme since 1947.

Amongst the establishments on the site are the Windscale piles which produced the UK's first plutonium for military use, and the world's first civil nuclear power station, Calder Hall. Both are being decommissioned.

Activities on the site are centred on remediation, decommissioning and clean-up of the historic legacy.

The site also contains the Thorp and Magnox fuel reprocessing plants, the Sellafield MOX plant, which manufactures mixed oxide fuel and a wide range of waste management and effluent treatment facilities.

It also stores spent fuel from UK power stations including plutonium.

The story so far.....

- Over 60 years of site operational history
- Site currently has in excess of 10,000 workers and other contractors
- A number of significant events - most notable the Windscale Pile fire in 1957, more recently Thorp Clarification Cell
- 22 fatalities since 1946 (14 contractor) most recently 2003 - all from conventional hazards eg falls, scaffold collapse, crushes, asphyxiation, electrocution, traffic incident

Nuclear Management Partners (NMP)

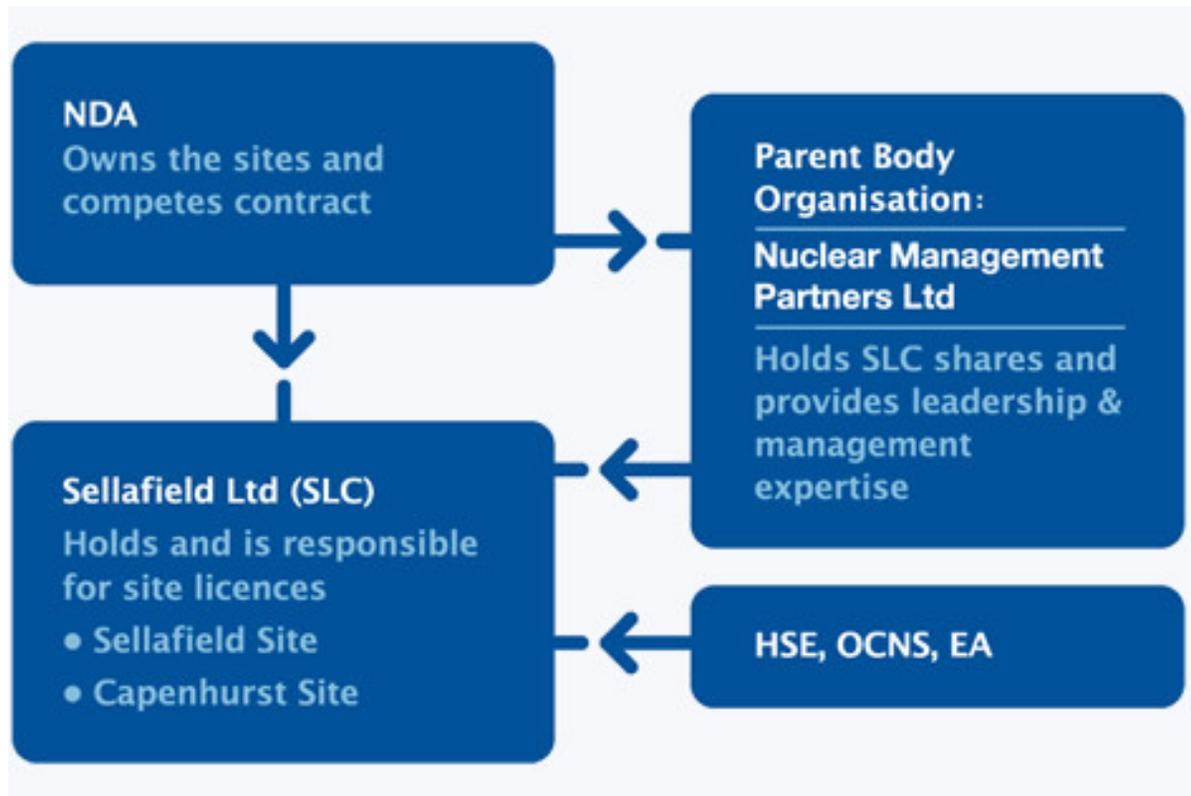
Key Date: November 2008

Nuclear Management Partners are a consortium comprising URS Washington Division of the United States, British company AMEC and AREVA of France.

The consortium manages Sellafield Sites Ltd, which comprises the Sellafield nuclear complex in Cumbria in the north west of England, the Capenhurst enrichment plant in Cheshire, and offices in Risley, near Manchester.



Company Profile



Operating Experience at Sellafield



Operating Experience

- Historically the threshold of site reporting has been set high with lower level events and plant state being captured through logs or retained through tribal knowledge etc.
- Thorough technical investigations of these higher level events have been carried out and local remedial actions placed
- It was identified in 1998 by an NII Team Inspection that there was a systematic failure of the Site as a whole to learn from events
- This prompted the start of the 'Learning From Experience' (LFE) programme that has now evolved into Operating Experience Feedback (OEF)

Communities of Practice for Lessons Learned

- Sellafield Sites
- Parent Body Organisation (Nuclear Management Partners – Washington Group, AMEC, AREVA)
- Nuclear Decommissioning Authority (NDA) Estates
- UK Operating Experience Learning Group
- World Association of Nuclear Operators (WANO)
- Other High Hazard Industries – Oil, Gas, Rail, Chemical, Aviation etc...
- US Department of Energy (USDOE)

UK Operating Experience Learning Group

The UK Operating Experience Learning Group is a network of UK nuclear licensed companies sponsored by the UK Nuclear Safety Directors' Forum and was established in 2001.

Operating Experience practitioners share nuclear safety event information, as well as good practices for event reporting and for using OE information for improving nuclear safety and reliability in the member companies.



BAE SYSTEMS



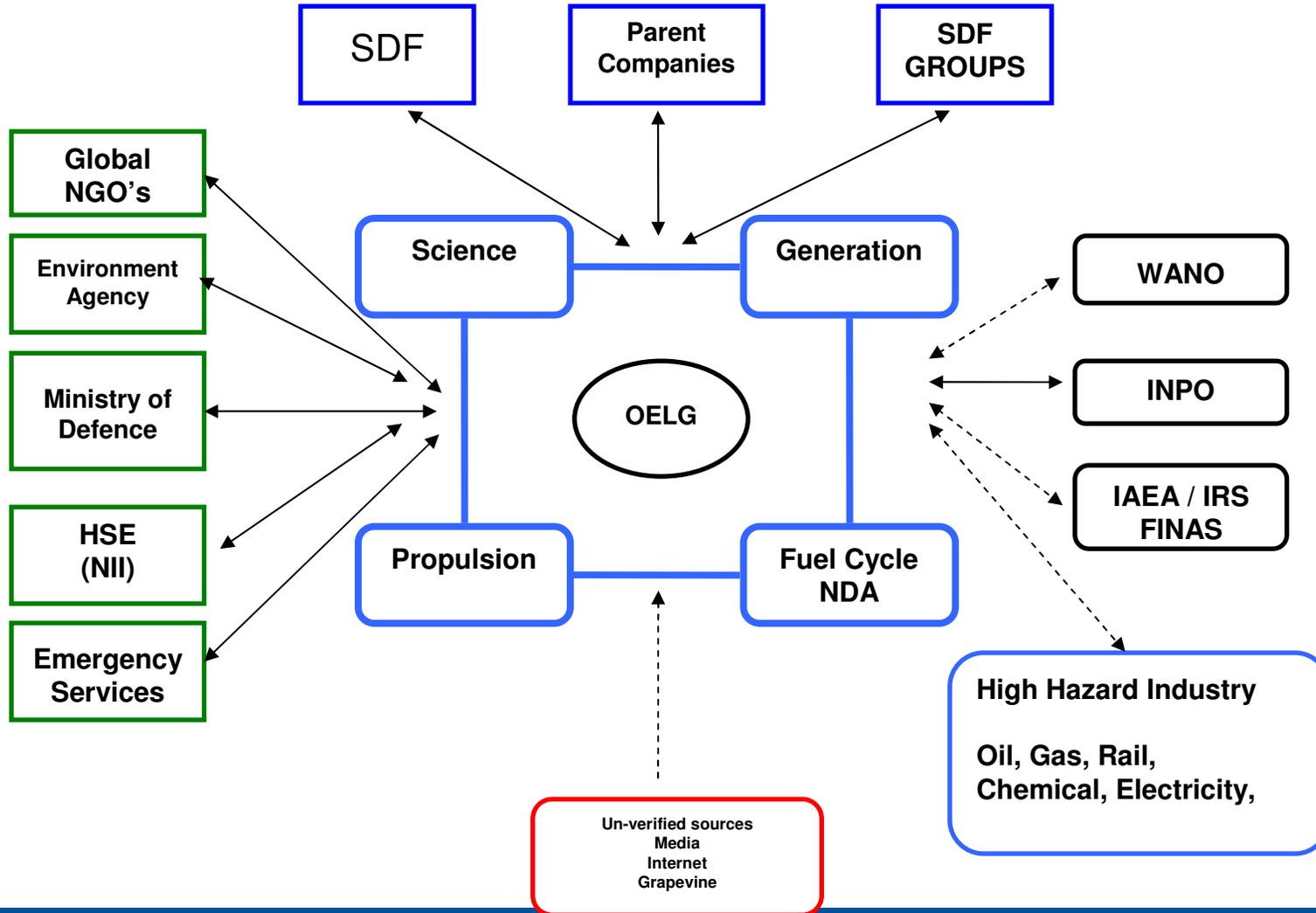
British Energy



Magnox South

Magnox North





OE Strategy

- We are continually looking to improve the nuclear safety and reliability of all our operations through continuous improvement programmes
- Real and significant learning can only be achieved when information from our own processes and external events is embedded and sustained within the organisation
- There is now a desire to learn from others while at the same time recognising that we also have learning opportunities to offer



Any Questions....?

