UK/USA partnering across the pond

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Graham Jonsson , Nuclear Decommissioning Authority.

Nuclear Decommissioning Authority

Over 60 years of history . . .

1940's/50's

- Nuclear build begins
- Initially a military programme
- Later civil programme begins

1960's/70's

- Waste stored safely pending treatment
- Storage capacity extended incrementally
- Coarse segregation of waste arising from process
- Magnox reprocessing starts

1980's

- Main expansion of site
- Major waste treatment focus
- Environmental impact substantially reduced
- Decommissioning programme started

1990's

- Commercialisation of Reprocessing
- Thorp online
- Waste arising from processes treated in 'real time'
- Product waste forms compatible with disposal concepts

2000's

- Decommissioning gathering pace
- Sellafield landscape changing forever
- NDA formed
- NMP become PBO

Sellafield Today

Sellafield is one of the most complex and compact nuclear licensed sites in the world. Over 1,000 facilities simultaneously perform a range of nuclear operations and many are dependent on each other. These operations include decommissioning, the processing and storage of low, intermediate and high level wastes and fuel manufacturing and recycling. This is all within a 6km^2 site.

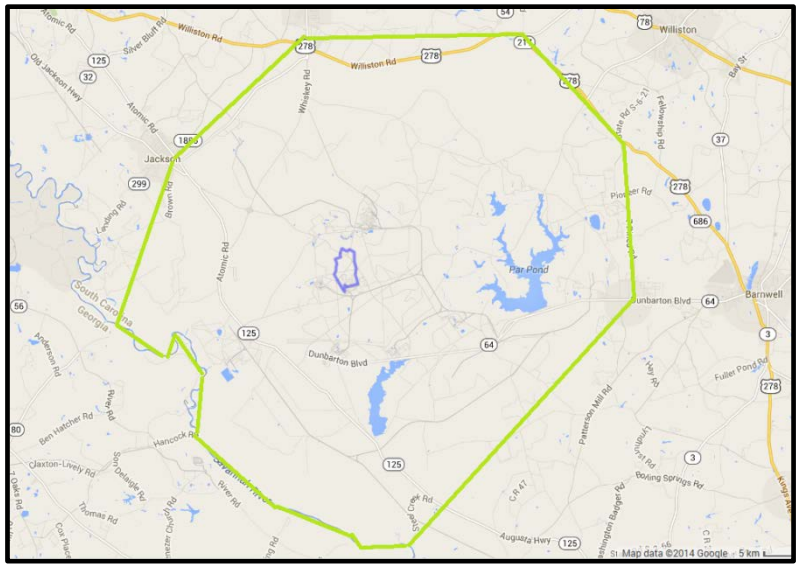
Comparison with SRS

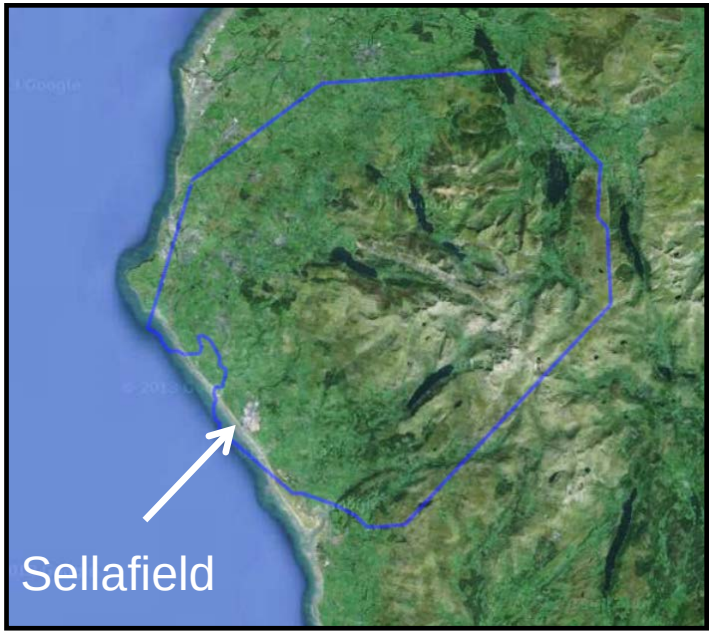
SRS

- 310sq/miles
- Workforce: 12,000
- Annual budget ~$2.5 billion

Sellafield

- 2.3sq/miles
- 10,000 employees
- Most diverse portfolio of any nuclear site in the world





Why work together ??

- **Benchmarking !**
- **Focus of the bi-lateral has been on “technical issues” as outlined in earlier presentations.**
- **Our focus has been on understanding how USDOE manages its site and how does it compare to NDA UK operations**
- **Identification of common areas of interest and relevant experiences for each mission**
- **See the world through another “set of eyes”**

What have we learned

- How the respective sites are set up
- Difference between how operations and major contracts are managed
- How the respective contracts are managed
- Evolution of contracts to current model
- Respective roles that each “site facing team” undertake
- Remarkable similarities in problems experienced with major project delivery
- Sites are similar but very different

Major Project comparison

- Project X (SL) and Project Y (SR)
- Very different scope but very similar problems
- Early start to construction activities
- Changes to design had to be incorporated once projects were in construction
- Supply chain capability gaps
- Schedule overrun and cost increases
- Very similar time periods when issues were experienced

Similar sites but different approaches

- Size and complexity are very different.
- Plants are similar but treat different materials
- Site management challenges are very different and present different challenges
- SRS far more advanced in the “clean up” mission than Sellafield
- Role of funding and overall “deliverability” challenges are very different.
- Same issues in major project delivery

What Next

- Understand the forward plan and identify opportunities
- Identify common areas
- Talk and share experiences
- Staff exchanges
- Consider the “collective capability” for each site mission

Entombed Reactor @ SRS