

UKAEA Background

- UKAEA formed 19th July 1954
- 1990 saw the ending of major nuclear research projects and the closing of UKAEA's remaining reactors
- Staff numbers are now down to 2,500 from a high of over 43,000
- Since the early 1990s, we have focused on restoring the environment of nuclear sites and leading research into fusion power



UKAEA Background

- In April 2005 the Nuclear Decommissioning Authority (NDA) formed to take responsibility for the UK's civil nuclear clean-up programme
- UKAEA now a contractor to the NDA for management of decommissioning at Dounreay, Harwell, Windscale, Winfrith and the JET facilities at Culham



UKAEA Current Programme

- We are experts in site restoration, and manage the clean-up of the Dounreay, Harwell, Windscale and Winfrith civil research sites and the JET facilities at Culham under contract to NDA.
- We have made major progress in restoring the sites, and our innovative strategies have cut site clean-up targets by £1.5 billion (\$2.85 billion) and by up to 35 years.



Basis of Current Programme Strategy

- Safety underpins everything
- Hazard reduction
- Removal of highest hazards first
- Rapid reduction of 'hotel costs' applying savings to additional hazard reduction
- Manage socio-economic impacts
- Open stakeholder communication
- Best value contract procurement and supply chain management



Forward Programme Parameters:-

- 5 Key Elements
 - Hazard Reduction & ILW Management
 - Decommissioning & Remediation
 - Interim Storage
 - Off-Site Transfer & Final Demolition
 - Care / Surveillance & Site Closure



Dounreay Opportunities

- Dounreay subcontracts 30-50% of ASFL
 - These percentages change annually
- This equates to approximately £30-£70M (\$57-\$133M) of annual subcontract opportunities
- Following is an <u>example</u> of percentage of total subcontracts by major 'Work Area'
 - Subcontracts may include services/support, supplies, equipment or consulting

11% Assurance

58% New Build and Decommissioning

24% Site Support

7% Waste Services



Harwell/Winfrith Opportunities

- The Cluster typically subcontracts about one-third of ASFL
- This equates to approximately £30M (\$57M) of annual subcontract opportunities
- A 'typical' mix of subcontracts follow
 - These percentages change annually based on needs

5% Assurance

59% New Build and Decommissioning

19% Site Support

17% Waste Services



Harwell Typical Contracts

Shielded Cell PIE Facility
 Decommissioning 2010 –
 2013 ~ £16M (\$30M)

Material Test Reactor
 Decommissioning 2008 –
 2015 ~ £14M (\$27M)

British Experimental Pile
 Ø Decommissioning
 2008 – 2016 ~ £14M
 (\$27M)







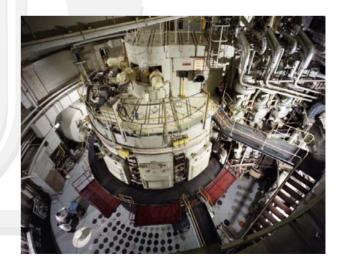


Winfrith Typical Contracts

- SGHWR
- Steam Generating Heavy Water Reactor
- 100 MWe, 300 MWTh
- Decommissioning (commenced) ~ £80M (\$152M)



- Dragon
- High temperature reactor
- 20MWTh
- Decommissioning 2008 –
 2009 ~ £45M (\$86M)





- PFR Fuel Cask Loading Facility & Casks
- 2008 ~ £20M (\$38M)
- PFR Reactor Dismantling Facility
- 2008 ~ £20M (\$38M)
- PRF Reactor Components
- Size reduction facility2007 ~ £3M (\$5.7M)



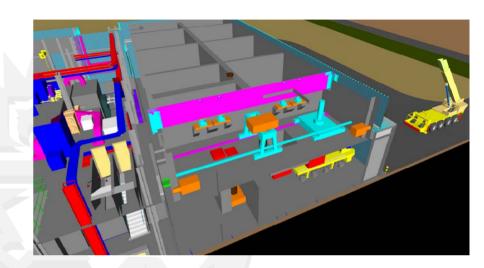


- DFR Primary Circuit Decontamination
- Decommissioning -2008 ~ £20M (\$38M)





- D3900 ILW Immobilisation, Encapsulation & Storage Facility
- Design & build 2007 ~ £150M (\$285M)



- Low Level Waste Disposal Facilities
- Decommissioning -
- 2008 Design ~ £5M (\$9.5M)
- 2011 Construction ~
 £30M (\$57M)

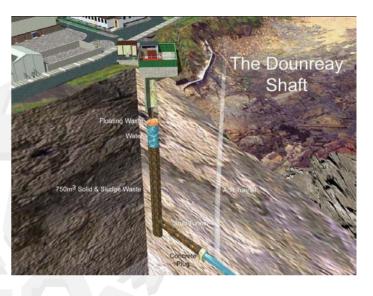




- High Active Shaft & Silo Retrieval Facility
- Design & build 2015 ~£100M (\$190M)











SUMMARY

- 2 Site Licence Companies
- Over 15 years of decommissioning experience and working with subcontractors
- £100M (\$190M) annual sub-contract opportunities
- Decommissioned more redundant nuclear reactors and facilities than any other company in Europe



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