

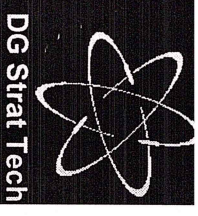
Future Nuclear Deterrent Industry Day

Nuclear Warhead Context

Nick Bennett – DG Strat Tech
(29 June 07)



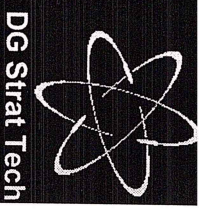
Role of DG Strat Tech



- Senior Responsible Owner for the Nuclear Warhead Capability Sustainment Programme (NWCSP)
- Technical adviser on future warhead options
- Technical policy & advice on strategic technologies
- Sponsor for strategic technology research within Channel A (Enabling Research Capability)
- Custodian of UK/US 1958 Mutual Defence Agreement



White Paper: NWCSP



DG Strat Tech

“We will continue the programme of investment in sustaining capabilities at AWE...”

“Additional investment averaging £350 million per annum over the years 2005/06 to 2007/08 was announced last year.”

“Further investment will be necessary...”



NWCSP

Programme aims:

- **Maintain safe & effective Trident warhead throughout service life**
- **Enable development of replacement if required**

Includes:

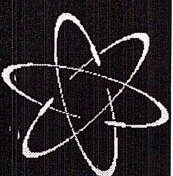
- **Warhead research & technology development**
- **Exercising manufacturing capability**
- **Recruitment & sustainment of expertise**
- **Facility refurbishment/replacement**

Some 100 facility schemes focused at AWE over the next 20 years:



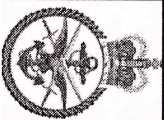
White Paper: Warhead Options

DG Strat Tech



“We do not yet have sufficient information to know whether Trident can, with some refurbishment, be extended beyond the 2020s or whether we will need to develop a replacement warhead: a decision is likely in the next parliament”

“...£2-3 billion for possible future refurbishment or replacement...”

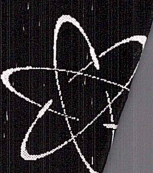


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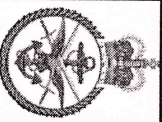


DTS Classified Annex

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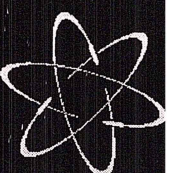


- **Key drivers for deterrent-specific technologies:**
 - Retain independence of use (design authority)
 - Meet international agreements
 - Support IG & Ministerial decisions
 - Retain intelligent customer status for ‘make or buy’
 - Leverage against US/other programmes
 - Integration, support, underwriting performance, safety and security
- **Key technology areas:**
 - Warhead, delivery vehicles, firing chain, operations planning, nuclear infrastructure



Industrial Opportunities

DG Strat Tech



In support of NWCSP & future warhead decisions, we need to tap into wider industry expertise:

- **Nuclear infrastructure & scientific equipment**
- **Warhead options development (outside the physics package)**
- **Warhead integration research (within Warhead Pre-Concept Working Group)**
- **Joint UK/US industrial activities**

