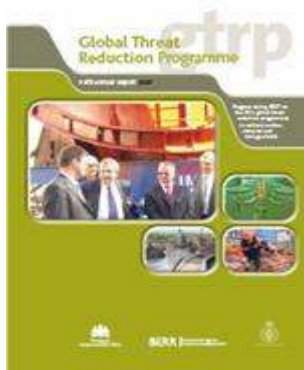


Progress in the UK's Global Threat Reduction Programme and work in NW Russia

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Structure of Presentation

- GTRP Policy framework
- Summary of programme activities
- Progress on work in NW Russia
- Achievements and Lessons Learnt

Full details set out in the annual report

<http://www.berr.gov.uk/energy/non-proliferation/global-threat-reduction/index.html>

Policy Framework

- BERR's nuclear threat reduction programme key part of the HMG's Global Threat Reduction Programme for which the FCO have policy responsibility
- The GTRP contributes directly to HMG's counter proliferation strategy and its PSA target focused on reducing the risk of the UK being subject to a terrorist attack using WMD materials or that states of concern gain access to WMD know-how
- £36.5m per annum budget - 90% on nuclear - rest on chemical weapons destruction and Bio programmes led by MOD
- UK pledged at the G8 2002 summit up to \$750 million over ten years - more than half already spent on a wide range of non proliferation, security and nuclear safety projects across the Former Soviet Union - main focus on Russia

Strategic focus of the UK programme

- Securing the safe storage of over 30 tonnes of Spent Nuclear Fuel (SNF) in NW Russia
- Securing alternative employment opportunities for former WMD scientists and engineers across the Former Soviet Union
- Enhancing the security of nuclear materials
- Enhancing nuclear safety and reinforcement of the regulatory regime for nuclear power plant focused on reducing the risk of a nuclear incident in Eastern Europe and the FSU
- Closure of reactors capable of producing weapon-grade plutonium in Russia and Kazakhstan (the Russian reactors are some of the most dangerous on the planet and their closure will greatly reduce the risk of further nuclear incidents)

Benefits to the UK

- Reduction in a range of proliferation, security and safety threats to the UK from WMD materials and know-how
- Enhancements to the global security culture
- First hand experience of dismantling nuclear submarines which will assist the UK to dismantle its own decommissioned nuclear submarines safely and cost effectively
- Enhancement of defence diplomacy - we have supported a number of projects involving both the Royal Navy and Russian Navy focused on environmental and safety issues associated with operational nuclear submarines
- Enhancement of political relations with partner donors - especially US and Norway
- Showcasing UK project management and nuclear decommissioning companies for similar challenges globally
- Enhancement of the UK's nuclear expertise

UK Achievements

- Gradual reduction in the non-proliferation, security and safety threats to the UK from WMD materials and know-how
- Establishment of projects assisting Russia to ensure some 3,000 former weapon scientists have sustainable non-nuclear jobs and enhance the economic future of the closed cities
- Well on the way to make safe and secure over 30 tonnes of Spent nuclear fuel and hundreds of tonnes of other waste nuclear material – Andreeva Bay and Atomflot projects
- Working with other donors and Russia, largely removed the safety and environmental threat posed by decommissioned nuclear submarines in NW Russia and provided “lessons learned” to Russia to address similar nuclear legacy challenges in the Far East
- Excellent working relations developed between UK and Russian organisations we work with – fundamental to our success
- Despite the political difficulties with Russia we have maintained a business as usual relationship with our Russian colleagues – in large part due to the fact that the challenges we are all trying to address are not just Russia’s problems – nuclear legacy issues respect no international borders

Projects in NW Russia

- Submarine dismantling
- Atomflot Spent Nuclear Fuel facility in Murmansk
- Technical assistance and provision of infrastructure at Andreeva Bay in Partnership with Norway, Sweden, Italy and EBRD
- AMEC projects



Submarine dismantling

- Funded the successful dismantling of three submarines to date - two Oscar class submarines at Zvezdochka shipyard and one Victor class at Nerpa
- Our work has also included the provision of equipment to enhance the efficiency and safety of dismantling submarines including improved storage of solid nuclear waste
- In all our work we have been very impressed with the technical competence and professional approach by the shipyards in meeting our contract requirements
- One final dismantling project just getting underway - at Shipyard 10/Nerpa



Our final submarine project



Our final submarine dismantling project at Shipyard 10/NERPA

- Project being undertaken in partnership with Norway
- Submarine 291 transported to Shipyard 10 under the auspices of a AMEC project funded by Norway with technical support from the UK – Royal Navy Salvage experts
- AMEC pontoons to be used to transport submarine to NERPA for dismantling
- Submarine currently being defuelled at Shipyard 10 with dismantling forecast to be completed and the one compartment unit taken to Saida Bay by late Spring 2009



SNF facility at Atomflot

- Biggest single project to date is our £23m interim Spent Nuclear Fuel store at Atomflot, Murmansk project managed by Crown Agents
- Project is very near completion with only a couple of casks left to be delivered to Atomflot
- Expectation is that Rosatom will start putting SNF in the casks for interim storage by the Autumn
- The physical protection (security building) at Atomflot is nearly completed with all approvals expected to be finalised by December 2008
- The UK plans to undertake post project evaluation to share lessons learnt



Andreeva Bay

- UK has been providing technical support and grant aid for a substantial portfolio of projects at Andreeva for some six years
- Major infrastructure projects about to get underway (e.g. Building 153) to enable the SNF to be moved safely around 2013-14
- Still a lot of work to do to achieve this goal but the UK committed to work closely with Rosatom to ensure SNF at Andreeva is made safe and secure
- Key to success will be the continued close working of all donors to ensure key projects on the critical path are completed as currently planned



AMEC

Value

- Implementation of projects in NW Russia in support of Global Partnership priorities.
- Development of good working relationships with senior Russian Navy personnel
- An opportunity to considerably strengthen the safety case for the Royal Navy's proposed new fleet of nuclear submarines, by sharing information relating to submarine accidents

Key achievements over the past 18 months

- Survey of the November class sunken submarine 159
- Completion of four pontoons (to be used to move 291)
- Commercialisation of equipment to make

AMEC proposals under discussion

- Construction of interim storage site for casks with solid radioactive waste at FSUE 10 SRY
- Development of a methodology for dealing with radioactive contamination and waster arisings during survey/recovery of sunken objects (with application to the sunken submarine B-159)
- Development of a protocol for survey and recovery of sunken radiologically hazardous objects
- Development of an AMEC Information Support Strategy
- Development of a methodology for in-situ encapsulation of a sunken object
- Consultancy to Russian Federation Navy for Far East submarine transportations
- Design proposal for a PEK 50 replacement to meet international standards

Programme Management contractors

- Fundamental to our success has been the recruitment of top quality private sector project managers and their nuclear engineers together with local engaged FSU personnel
- Selected by international competitive tender using EC procurement procedures
- Provide the UK with a robust framework to manage risks, negotiate and implement complex projects in a timely manner
- Current nuclear contractors - Nuvia Ltd, Crown Agents, HTSPE Ltd, and VT Nuclear Services

Future plans

- Complete all the work we started in Russia - if we can avoid the current political problems escalating - in our nuclear safety, security and environmental interests to ensure the international community can ensure nuclear legacy challenges in Russia are dealt with in a timely manner
- Gradual widening of the geographic scope of the Programme
- Enhancing physical security of nuclear facilities outside Russia particularly in States close to conflict zones
- Making the case for continued funding in the next Spending Round and the political case for GP extension beyond 2012 in preparation for the 2010 summit