

Sizewell A - Update

Greenprint Forum
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Presented by Paul Wilkinson, Waste Manager

Magnox Electric Ltd

Nuclear Decommissioning Authority expectations

- Fast, efficient, value-for-money decommissioning for the UK taxpayer
- Ongoing stakeholder engagement and public consultation on decommissioning and end-state options
- Continued management of site within existing Environmental, Health, Safety and Quality guidelines
- Safety to remain our No.1 priority

Sizewell A Safety

- Good industrial safety standard
- ISO 14001 accreditation retained
- Ongoing programme of safety improvement
- Det Norske Veritas ISRS & IERS Level 10
 - A world first
 - More challenging version 7 adopted
- RoSPA President's Medal for 10 years of Gold Awards

Sizewell A Output

- Sizewell A generates enough electricity to meet the needs of Suffolk
- Current output: 427 megawatts
- Produced 107 terawatt hours over last 40 years
 - 107 billion kilowatt hours
 - Enough electricity to meet electrical demand of England & Wales for six months

Sizewell A People

- We currently employ:
 - 414 permanent staff
 - 40 agency staff
 - 70-80 contractors
- Investors in People accreditation since 1997

Current decommissioning strategy

- Deferred site clearance
- Defuelling and Care & Maintenance preparations until 2017
- Care & Maintenance (Safestore) from 2017 - 2102
- Final site clearance from 2102 - 2110

NDA Strategy

- Strategy approved by Government end of March 2006
 - Accelerated decommissioning where possible
 - Possibility of site clearance in 25 - 30 years
 - Consultation on end-states this year
 - Contract for management and operation of Sizewell A to be competed in 2008
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- Strategy document available at www.nda.gov.uk

Summary

- Safe and compliant operation in our final year of generation
- Planned date for cessation of generation - 31 December 2006
- Preparations for defuelling and decommissioning
- Supporting the NDA in adoption of its new strategy
- Consultation on site end-states this year

Sizewell A Decommissioning

Environmental Statement

Presented by: Heather Goddard and Clare Mitchell

British Nuclear Group Ltd

Regulations

- Nuclear Reactors (Environmental Impact Assessment for Decommissioning) Regulations 1999, as amended
- Known as EIADR99

EIADR99

- Regulation 4: consent to Nuclear sites must apply for decommission
- Regulation 5: Statement Provision of an Environmental
- Regulation 6: Opinion Provision of a Pre-application
- Regulation 8: Procedure by the Executive
- Regulation 10: Further information

EIADR99 - Regulation 13

- Covers changes or extension to the project
- If there is significant adverse impact to the environment, we may have to repeat the Environmental Impact Assessment process

Environmental Statement

- Detailed assessment, non-technical summary and figures
- Description of the project
- Considers alternatives
- Assesses impacts and identifies significant adverse impacts
- Performed by consultants
- Mitigation

Socio-economic

- Direct and indirect effects
- Mainly in Suffolk Coastal
- Mitigation proposed includes:
 - Re-deployment
 - Early retirement
 - Re-training / re-skilling
 - Encouragement to use local suppliers and labour

Traffic and Transport

- Impacts on highways, road safety and the local environment
- Performed baseline traffic surveys
- Mitigation proposed includes:
 - Travel plan
 - If necessary, re-circulating wheel washers

Air Quality and Dust

- Air quality, pollutants and dust
- Looked at the site and main traffic routes
- Based on available data
- Mitigation proposed includes:
 - Avoidance of dust creation and
 - Dust reduction measures

Archaeology and Cultural Heritage

- Desk-based assessment
- No archaeological remains present
- Ongoing consultation with English Heritage regarding the Royal Commission on Historical Monuments of England survey of Sizewell A

Ecology

- Effect on valued ecological receptors
- Data gathered from up to 5km from site
- Included several designated sites
- Desk and field-based surveys including targeted surveys for key species
- Wide variety of species found

Ecology - Key Mitigation

- Black redstarts
 - nest boxes
 - awareness programme
 - restrictions local to nests and foraging
- Kittiwakes
 - Options study to be performed to identify the optimum mitigation
- Reptiles
 - One-way fencing

Geology, Hydrogeology and Soils

- Contaminated land
- Remediation
- Ground water levels and quality
- Mitigation proposed includes:
 - Prevention of contamination spread
 - Compliance with British Standards and EA guidance notes
 - Control of water flow

Landscape and Visual

- Changes to building structures
- Demolition
- Construction - temporary and long-term
- Temporary stock piles
- No mitigation but following best practice:
 - New lighting will be directional

Noise and Vibration

- Effect within 2km of site and on traffic routes
- Survey of current noise levels and modelling
- Assessment assumes worst case
- Mitigation proposed includes:
 - Silencers
 - Good communications
 - British Standards
 - Timing restrictions

Surface Water

- Looks at discharges, water quality and physical effects
- Mitigation proposed includes:
 - Prevention of dust spread
 - Bunding of chemical and fuel storage
 - Appropriate chemical protocols
 - Emergency spill response

Sizewell A - Process

- Pre-application Opinion applied for Sept / Oct 2004
- Received Nov 2004
- Environmental Statement submitted 30 September 2005
- Consultation period
 - Started 21 October 2005
 - Ended 3 February 2006
- Currently providing further information under Regulation 10

Sizewell A - The Future

- Aim for consent to be granted in October 2006
- Environmental Management Plan produced
- Cessation of generation - 31 December 2006
- Defuelling - July 2007 to November 2009
- Decommissioning
 - Care and Maintenance preparations until 2017
 - Care and Maintenance 2017 – 2102
 - Final site clearance 2102 to 2110

Questions

Thank you for your time

Heather Goddard and Clare Mitchell