





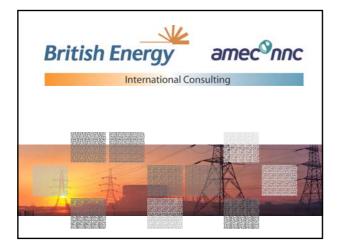
SMR.1769-14

# SCHOOL OF NUCLEAR KNOWLEDGE MANAGEMENT

18-22 September 2006

# Knowledge Transfer in the Nuclear Sector

A. JACKSON National Nuclear Corp (NNC) Ltd. Reactor Services Group Booths Hall. Chelford Road Knutsford WA16 8QZ Cheshire U.K.

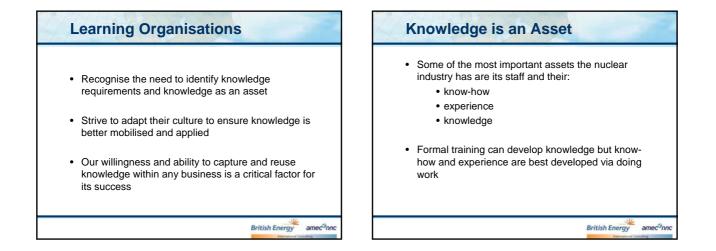


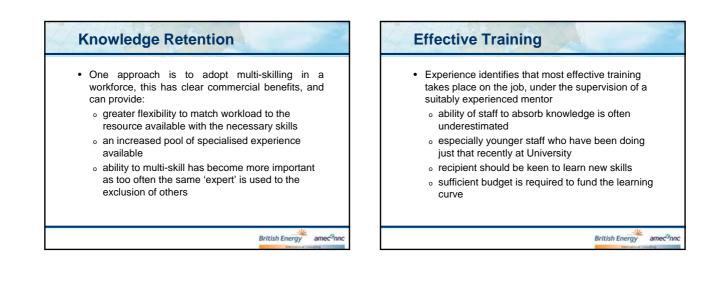


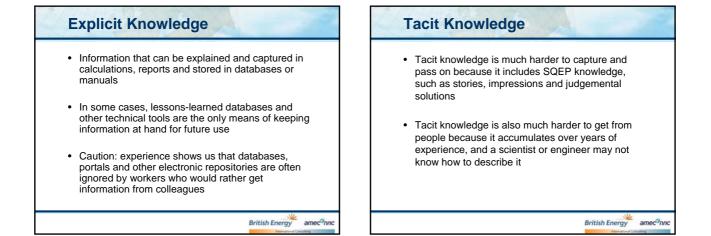
BENIC dedicated team	
British Energy	ameconnc
Operator of 8 Power Stations (nuclear & thermal)	Design, commission civil NPPs Engineering support to nuclear, transport, defence, oil & gas industries
>5000 staff	>1200 staff
Largest Electricity Generator in UK • Turnover £1.5 billion • Generation 72 TWh (out of 300TWh)	Largest Technical Support to British Energy & BNG • Turnover - £85M • Canada – Ontario Power Generation • South Africa – ESKOM
Moved from state ownership to private compan traded on stock market,	y Now part of the AMEC Global Construction Group with turnover of £5 bn
Future <ul> <li>New Build</li> <li>Resume International Presence</li> <li>Horizontal Diversity (Wind Farms)</li> </ul>	Future • New Build • Global International presence • New technology



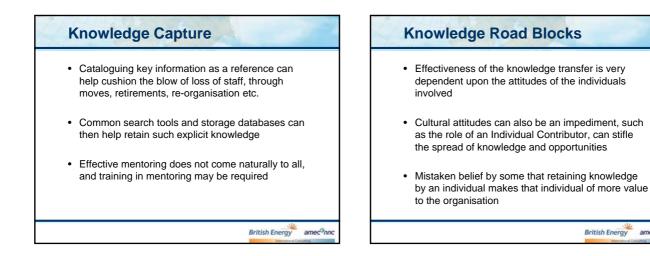


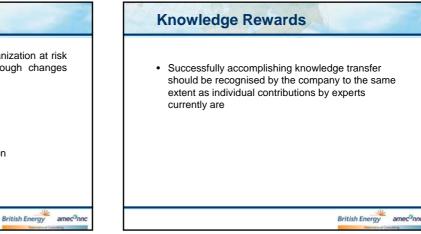






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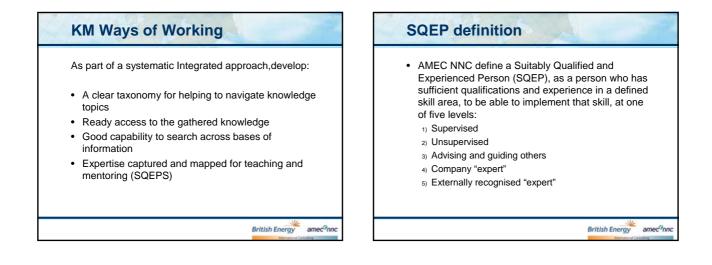


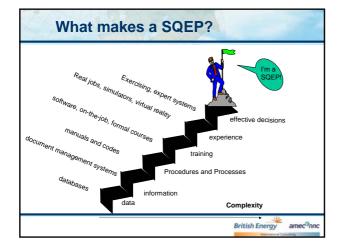
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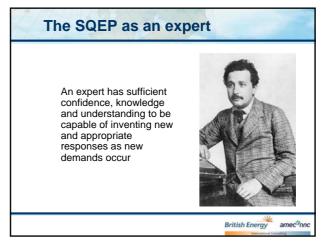
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#### **Knowledge Transfer**

- KM transfer is applicable to any organization at risk of losing important knowledge, through changes such as:
  - o ageing workforce issues
  - o greater rotation of personnel
  - o staff reduction
  - Multi-skilling
  - o cultural changes in the organisation
  - o attrition from many other causes

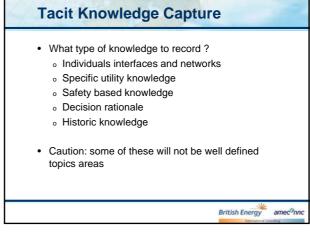


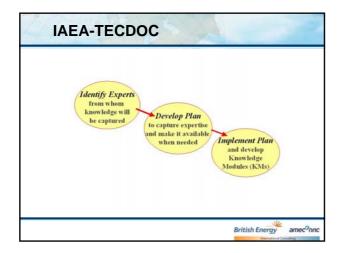


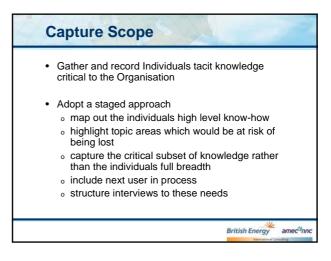


#### 5











- o define what structure the deliverable will take o plan series of interviews with Employee to populate the
- deliverable
- o interview transcription review and validation
- o review points

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#### **Tacit Knowledge Capture**

- · Some benefits can be difficult to quantify:
  - o risk reduction: maintain safety and commercial focus without loss during change
  - o enhance effectiveness and efficiency of the new users of information
  - o reduce chance of repeating work
  - o provide access to decision rationale, including why some decisions were not taken
  - o formalise individuals "array" of information
  - supports succession planning

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#### **End Deliverable**

- Design output to satisfy the needs and expectations of the users
- Decide on your ideal medium to share knowledge and deliver the most benefit, examples such are:
  - o intranet site for communication / navigation
  - o include models of skills and knowledge
  - o keyword searchable
  - o contain decision rationale trees of engineering judgement
  - o records historical specific issues



#### **Post Implementation**

- · Continue to test and validate with users, does it meet their needs?
  - o highlight existence of information in the organisation, and monitor access
  - o ensure there is ownership / maintenance responsibility for the information
  - o clear understanding of the shelf-life information ?
  - o storage of recordings and appropriate software
    - as a record for QA purposes

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