



AP1000 Introductory Training Workshop for NII and EA

## Agenda

28 – 29 January 2003, Bootle

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### 28 January 2003

9:00 am

- |   |   |                                  |
|---|---|----------------------------------|
| 1 | Introduction  | Bill Ascroft-Hutton, Alan McGoff |
| 2 | Workshop Objectives   | Richard Mayson                   |
| 3 | Description of AP1000 design drivers<br><i>AP1000 genesis (AP600 drivers; uprate from AP600 to AP1000);<br/>Current AP1000 status</i> | Jim Winters                      |
| 4 | US Review Process for AP1000<br><i>NRC Overview of US licensing and major findings</i>  | Jerry Wilson                     |

Lunch

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|---|---|-------------|
| 5 | Description of AP1000 plant and component design<br><i>description of AP1000 design philosophy<br/>description of plant<br/>description of layout and segregation<br/>description of structures<br/>description of passive safety systems (NSSS and spent fuel pool)<br/>description of the active systems<br/>external hazard capability<br/>internal hazard capability<br/>radiological protection (normal operation and fault conditions)<br/>waste management and decommissioning</i> | Jim Winters |
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9:00 am

- 6 AP1000 safety analysis approach and results Terry Schulz  
*fault identification*  
*design basis accident analysis (methods including transient analysis codes)*  
*results*  
*testing including validity of AP600 testing for AP1000*  
*demonstration of ALARP*
- 7 Defence in depth in AP1000 Terry Schulz  
*the 6 level AP1000 approach*  
*diversity in AP1000*  
*redundancy in AP1000*

*Lunch*

- 8 AP1000 electrical, I&C design and approach Tom Hayes  
*PMS, DAS, hard-wired functions*  
*control systems*  
*control room*  
*electrical design*  
*compliance with IEC standards*
- 9 AP1000 PRA and results Terry Schulz  
*fault identification*  
*methods (including quantification treatment of common mode failure)*  
*severe accident analysis*  
*other topics – e.g. safe shutdown vs. cold shutdown*  
*demonstration of ALARP*
- 10 Discussion session: including differences with Generation II PWRs Jim Winters (lead)
- 11 Close