



AP1000 Introductory Training Workshop for NII and EA

Agenda

28 – 29 January 2003, Bootle

28 January 2003

9:00 am

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

Lunch

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

29 January 2003

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