ACR Pressure Boundary
-meeting aims-

Robert Ion
AECL, ACR Licensing

Presentation to US Nuclear Regulatory Commission

July 07, 2005

AECL
TECHNOLOGIES INC.

AECL Attendees

• Glenn Archinoff	ACR Licensing, Manager
• Robert Ion	ACR Licensing
• Julian Millard	ACR Reactor & Fuel Handling, Manager
• Livia Dimitrov	ACR Reactor Engineering
• Marc Léger	Office of the Chief Engineer, Materials Engineering, Director
• Doug Rodgers	CANDU Technology Development Fuel Channels Division, Director
• Brian McKercher	Consultant

Agenda

- 8:30 am Introductory Comments (NRC & AECL) – open
- 8:45 am Proposed SER Scope (AECL) – open
- 9:30 am Overview on Pressure Tubes Codes, Standards and Acceptance Criteria (AECL) – open
- 10:30 am Opportunity for Public Comments
- 10:45 am Break
- 11:00 am Detailed Presentation on Pressure Tubes Codes, Standards and Acceptance Criteria (AECL-proprietary) – closed
- 12:00 pm Lunch
- 1:00 pm Presentation on Licensing Rules (AECL & NRC - Proprietary) - closed
- 2:00 pm Compliance Example Presentation (AECL-proprietary) – closed
- 2:45 pm Break
- 3:00 pm SER Scope & Schedule (AECL & NRC - proprietary) – closed
- 4:00 pm Adjourn

SER scope

- NRC's decision based on AECL's submission of report "Codes, Standards and Acceptance criteria for ACR-700 RCPB and On-Line Fueling Components and Issues" (108US-30000-LS-001) and its supporting document "ACR-700 Pressure Tubes Integrity" (108US-31110-LS-001) on :
  - The design of the ACR Pressure Tubes and End Fittings meets the primary pressure boundary design requirements of 10CFR50.55a through the use of the ASME Code and the additional design requirements contained in this report and its references.
  - The design of the ACR Reactor Coolant Pressure Boundary components, specifically the Pressure Tube, End Fitting, Closure Plug and Fueling Machine, satisfies the acceptance criteria of the Standard Review Plan sections 5.2.1.1, 5.2.1.2, 5.2.2, 5.2.3, 5.2.4, 5.2.5, 5.3.1 and 5.3.2.
  - The Code Classification of the Reactor Coolant Pressure Boundary components, specifically the Pressure Tube, End Fitting, Closure Plug, Fueling Machine and interfacing water systems are consistent with the guidance contained in Regulatory Guide 1.26.

SER Discussion

- SER scope
- Upfront feedback from NRC staff regarding the information presented
- SER schedule, including milestones for:
  - NRC issue of RAIs,
  - AECL responses to RAIs,
  - NRC issue of draft SER,
  - AECL providing comments on draft SER,
  - NRC issuing of final SER.
- Estimation of NRC's review effort
- Need for AECL's revision of the report
- Next step

Assessment Report

- Covers AECL's proposed application of the NRC's Standard Review Plan to:
  - Calandria vessel,
  - End Shield, and
  - Reactivity Control Units.
- AECLT is seeking assessment analogous to the recently issued Pre-Application Safety Assessment Report (PASAR)
- Upfront feedback from NRC staff regarding the information presented
- Assessment Report schedule, including milestones for:
  - NRC issue of RAIs,
  - AECL responses to RAIs,
  - NRC issue of draft Assessment Report,
  - AECL providing comments on draft Assessment Report,
  - NRC issuing of final Assessment Report.
- Estimation of NRC's review effort
- Next step

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