

August 9, 2002

ORGANIZATION: Atomic Energy of Canada Limited (AECL)

SUBJECT: SUMMARY OF MEETING HELD ON JULY 24, 2002, TO DISCUSS  
ACR-700 DESIGN AND PLANS FOR PRE-APPLICATION  
INTERACTIONS

The Nuclear Regulatory Commission (NRC) hosted a public meeting with Atomic Energy of Canada Limited (AECL) on July 24, 2002, at NRC Headquarters to discuss the Advanced CANDU Reactor (ACR-700) design and plans for pre-application interactions. A list of attendees is provided as Enclosure 1.

By letter dated June 19, 2002, AECL requested a pre-application review of the ACR-700 reactor design. The ACR-700 is a 700 MWe, heavy water moderated, light water cooled, pressurized water reactor design which utilizes an on-line refueling capability. During the meeting, AECL provided an overview of the ACR-700 design, safety basis, and evolution of the ACR-700 design. AECL and the staff also discussed plans for a pre-application review of the ACR-700 design. The meeting agenda is provided as Enclosure 2. AECL's handouts are provided as Enclosure 3 which can be accessed through the NRC's Agencywide Documents Access and Management System (ADAMS) under Accession No. ML022100129.

AECL proposed a completion date of June 2003 for the Phase 1 pre-application review and June 2004 for the phase 2 pre-application review. The staff plans on further discussions with AECL to determine if any adjustments need to be made to this schedule. During Phase I of the ACR-700 pre-application review, AECL and the staff plan on reaching agreement of the schedule and cost requirements for phase II of the pre-application review. The phase II pre-application review will allow for further assessment of the design and technology base for the ACR-700, finalize resolution strategies for identified issues, and assess the resource, schedule, and cost requirements for design certification. A more detailed technical presentation will be conducted at NRC headquarters by AECL representatives on September 25-26, 2002.

*/RA/*

Robert J. Pascarelli, Project Manager ACR-700  
New Reactor Licensing Project Office  
Office of Nuclear Reactor Regulation

Project No. 722

Enclosures: As stated

cc w/encls: See next page

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ADAMS ACCESSION NUMBER: ML022190410-Pkg.

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**OFFICIAL RECORD COPY**

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AECL Presentation on the ACR-700 Design and Proposed Scope of the Pre-Application Review

July 24, 2002      TWFN-3B45      1 - 4:30PM

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Agenda for Meeting to Discuss  
the ACR-700 Design and Proposed  
Scope of the Pre-Application Review  
July 24, 2002

<u>Agenda Item</u>	<u>Organization</u>	<u>Duration</u>
Introduction	NRC	10 minutes
Introduction to AECL and AECL Technologies	AECL	20 minutes
CANDU safety basis	AECL	40 minutes
The evolution of the ACR design	AECL	60 minutes
Opportunity for public comment		5 minutes
Overview of the proposed pre-application licensing plan	AECL	30 minutes
Discussion	NRC	30 minutes
Opportunity for public comment		5 minutes
Conclusion	NRC	10 minutes

ACR-700

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