

July 31, 2003

Our File: 108US-013210-021-001  
Your File: Project No. 722

U.S. Nuclear Regulatory Commission,  
Document Control Desk,  
Washington, D.C. 20555

Attention: Ms. B. Sosa  
Project Manager, ACR

Reference: 1. Letter V. Langman to B. Sosa, "Further to the ACR Pre-Application Plan  
– Detailed Deliverables and Schedule for Focus Topics", December 18, 2002.  
2. Letter V. Langman to B. Sosa, "Phase 2 of ACR Pre-Application  
Review", July 30, 2003.

Re: **ACR Probabilistic Safety Assessment Methodology**

In support of the NRC's pre-application review of the ACR, in particular focus topic # 11 (ACR PRA Methodology) of attachment 1 to Reference 1, and as committed in Reference 2, please find enclosed a CD copy containing the AECL Report 108-03660-AB-001 Revision 1, "Probabilistic Safety Assessment Methodology".

The ACR Probabilistic Safety Assessment (PSA) will consist of a Level I and a Level II PSA for internal events. In addition to internal events, assessment of the internal flood, internal fire and seismic events will be included. A Shutdown state PSA will also be performed. The enclosed report describes the methodology to be used in the performance of the ACR PSA.

The NRC staff is requested to provide their feedback on the acceptability of the approach described in the enclosed AECL Report 108-03660-AB-001 Revision 1, "Probabilistic Safety Assessment Methodology" by October 31, 2003.

If you have any questions on this letter and/or the enclosed information please contact the undersigned at (905) 823-9060 extension 6543.

Yours sincerely,



Vince J. Langman

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**ACR Licensing Manager**

**/Enclosures:**

- 1. A CD containing the AECL Report 108-03660-AB-001, Revision 1, "Probabilistic Safety Assessment Methodology", July 2003.**