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April 30, 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.

Re: **"Classification of Safety Related Systems and Structures", Report in Support of the ACR Pre-Application Review**

In support of the NRC's pre-application review of the ACR, in particular focus topic # 5 (Design Philosophy and Safety Related Systems) of attachment 1 to Reference 1, please find enclosed a CD copy containing the AECL Report 108US-03621-LS-001, Revision 0, "Classification of Safety Related Systems and Structures".

This report addresses the identification and classification of safety related systems and structures for the generic ACR design. The report provides a definition of safety related systems, and a list of the major safety related systems and structures, their classification, and their general safety functions. In addition to the systems that provide safety functions for the design basis events (Protective, Category 2), the list includes systems and structures that perform safety functions during normal plant operation whose failure could require further protective action (Preventative, Category 1). It should be noted that the classification does not lead directly to design requirements, which are applied separately to each individual safety related system based on their specific function, codes and standards, regulatory requirements, and safety analyses.

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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,

A handwritten signature in black ink, appearing to read "VJ Langman", with the word "per" written below it.

Vince J. Langman  
ACR Licensing Manager

/Enclosure:

1. CD containing the AECL Report 108US-03621-LS-001 Revision 0, "Classification of Safety Related Systems and Structures", April 2003.