

July 15, 2004

MEMORANDUM TO: Michael D. Tschiltz, Chief  
Probabilistic Safety Assessment Branch  
Division of Systems Safety and Analysis  
Office of Nuclear Reactor Regulation

FROM: David C. Lew, Chief /RA/  
Probabilistic Risk Analysis Branch  
Division of Risk Analysis and Applications  
Office of Nuclear Regulatory Research

SUBJECT ACR-700 PROBABILISTIC RISK ASSESSMENT (PRA)  
METHODOLOGY REVIEW REPORT

Attached is a copy of the final report entitled "Probabilistic Risk Assessment for the ACR-700 Advanced CANDU Reactor, Review of Selected Technical Reports Related to the Methodology Used for Conducting a Probabilistic Risk Assessment for the ACR-700 Design," for your information and use. This final edition has been revised to appropriately address all of your comments as transmitted by your memorandum dated June 14, 2004, except comment 17.

Comment 17 indicates that identifying a short coming related to flooding is not appropriate during pre-application review because AECL did not request a review of their flooding methodology. As we discussed with Martin Stutzke, we believe that it is appropriate for two reasons. First, Belkys Sosa, the ACR-700 NRC Project Manager, has stated on several occasions that while the pre-application review is focused on topics of AECL's choosing, any issues that we discover that could be potential problems which are outside of the requested review should also be brought to the attention of AECL. The second reason is that we believe that a complete PRA methodology should include a discussion of how flooding should be incorporated into the PRA. Mr. Stutzke did not disagree with this rationale.

This completes the PRA support requested by NRR for the pre-application review of the ACR-700.

Attachment: As stated

DOCUMENT NAME: G:\Ridgely\Transmittal of PRA Methodology Report.wpd

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