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Your File: Project No. 722

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

Attention: Ms. B. Sosa
Project Manager, ACR

Re: ACR-700 Physics – Non-Proprietary Presentation Material

On July 27-29, 2004, the NRC staff visited AECL's Chalk River Laboratories located in Chalk River, Ontario, and participated at a meeting with AECL on ACR-700 Physics. During the meeting discussions, AECL made presentations and provided the NRC staff with information related to the meeting topic. Please find enclosed a CD containing the non-proprietary versions of presentations as follows:

1. Overview of ACR Reactor Physics Toolset Qualification Program,
2. ZED-2 Physics Experiments in Support of ACR,
3. Simulating Burnup Effects in ZED-2 Measurements,
4. Dy Burnup Validation,
5. Results of Validation using Existing Fuel under ACR Conditions,
6. Enhancements to the WIMS Code,
7. Assessment of ACR Core Modeling, and
8. ACR Coolant Void Reactivity.

The protected-proprietary versions are being submitted under a separate cover.

If you have any questions on this letter and/or the enclosed material please contact me at (301) 228-6637.

Yours sincerely,



for: Glenn Archinoff
ACR Licensing Manager

/Enclosures:

1. CDs containing the non-proprietary presentations as mentioned in this letter

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