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Project No. 722

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

Attention:

Ms. B. Sosa

Project Manager, ACR

Reference:

1. E-mail from B. Sosa to R. Ion, G. Archinoff, "Articles from AECL", dated July 08, 2004.

Re: NRC's Request for TH Technical Publications

As requested by NRC staff (Reference 1), and in support of the NRC's pre-application review of the ACR-700, please find enclosed a CD-ROM containing the following papers in electronic format:

- 1. S.I. Osamusali, D.C. Groeneveld and S.C. Cheng, "Two-Phase Regimes and Onset of Flow Stratification in Horizontal 37-Rod Bundles", Heat and Technology Vol. 10 No. 1-2 (1992), pages 44 to 74 (electronic file titled "Paper1-copyright.pdf"),
- 2. S.I. Osamusali and J.S. Chang, "REGIME-4 Code for Prediction of Flow Regime Transition in a Horizontal Pipe, Annulus, and Bundle Flow Under Gas-Liquid Two-Phase Flow", Proceedings of the 8th Annual Canadian Nuclear Society Conference, St. John, New Brunswick, Canada, June 1987, J.D. Sommerville, Ed., pages 125 to 134 (electronic file titled "Paper2-copyright.pdf"),
- 3. S.I. Osamusali and J.S. Chang, "Two-Phase Flow Regime Transition in a 37-Rod Nuclear Fuel Bundle Horizontal Flow", Proceedings of the 3rd International Topical Meeting on Nuclear Power Plant Thermal Hydraulics and Operations, Seoul, Korea, November 1988, pages A1-137 to A1-141 (electronic file titled "Paper3-copyright.pdf"), and
- 4. P. Busono, J.S. Chang, and V.S. Krishnan, "Modelling of a Single-Component Two-Phase Flow Regime Map in a Horizontal Pipe with Rod Bundles", Proceedings of the 4th International Topical Meeting on Nuclear Thermal Hydraulics, Operations, and Safety, April 1994, Taipai, Taiwan, pages 9-B-1 to 9-B-6 (electronic file titled "Paper4.pdf").





Please note that although the enclosed material does not contain information proprietary to AECL, papers 1, 2 and 3 listed above are copyrighted.

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

Yours sincerely,

Glenn Archinoff

ACR Licensing Manager

/Enclosure:

1. CD-ROM containing the journal article and conference papers listed in this letter.