

December 24, 2003

Mr. Vince J. Langman
ACR Licensing Manager
AECL Technologies Inc.
481 North Frederick Avenue, Suite 405
Gaithersburg, MD 20877

SUBJECT: REQUEST FOR WITHHOLDING INFORMATION FROM PUBLIC DISCLOSURE
FOR ADVANCED CANDU REACTOR (ACR-700)

Dear Mr. Langman:

By letter dated November 28, 2003, AECL Technologies Inc. submitted an affidavit dated November 28, 2003, executed by Mr. Ken Hedges requesting that the following materials be withheld from public disclosure pursuant to Title 10 of the *Code of Federal Regulations* (10 CFR) Sections 2.790 and 9.17:

One compact disc containing electronic copies of the following proprietary reports:

1. CANDU 9 Analysis Report, "Feeder Break Analysis," 69-03500-220-006, Revision 2, December 1999.
2. CANDU 9 Analysis Report, "Flow Blockage," 69-03500-220-007, Revision 1, November 1998.
3. CANDU 9 Analysis Report, "Pressure Tube/Calandria Tube Rupture Analysis," 69-03500-220-008, Revision 1, November 1998.
4. ACR Design Requirement Report, "Fuel Channel Assembly," 10810-31100-DR-001, Revision 0, January 2003.
5. ACR Design Requirement Report, "ACR-700 Emergency Coolant Injection System," 10810-34320-DR-001, Revision 1, May 2003.

The following proprietary reports in hard copies:

1. "A Phenomenology-Based Matrix of Tests for use in Validating Fission Product Release and Transport Codes Employed in Safety Analysis," Volumes 1-3, AECL Report RC-1773, Revision 1.0, December 1997.
2. "37-Element CHF Program Steady-State CHF, Transient CHF and Post-Dryout Tests with Uniform and Diametral Crept Flow Tubes," Report SL-104/COG-98-311, May 1999.
3. "Review of the Recent Test Done on the Pressure Tube-Bowed Fuel Element Test Section and Proposal for Test Section Modification," Report ARD-TD-116/COG-88-87, April 1989.
4. "Thermalhydraulic Measurements on a Test Section Designed to Study the Heat Transfer Between a Bowed Fuel Element and Pressure Tube," Report ARD-TD-175/COG-88-189, July 1989.

5. "An Examination of the Anisotropic Characteristics of CANDU Pressure Tubes at 773-1173°K," Report WNRE-385, June 1980.
6. "The Limit of Uniform Strain, or Onset of Ballooning, in Fuel Sheath Ballooning Tests," Report CRNL-1187, September 1974.
7. "RD-14 Facility Description," Report CANDEV-85-15, September 1985.

The affidavit stated that the submitted information should be considered exempt from mandatory public disclosure for the following reasons:

1. This information is confidential and has been held in confidence by AECL, which is the parent company of AECL Technologies Inc. The information is contained in AECL reports or other documents that are normally held in confidence in accordance with AECL's procedures for the protection of information. The reports or other documents are part of AECL's comprehensive safety and technology base for the CANDU design, and their commercial value extends beyond the original development costs, which in themselves are considerable.
2. This information is being transmitted to the NRC in confidence.
3. This information is generally not available in public sources and could not be gathered readily from other publicly available information.
4. Public disclosure of this information would create substantial harm to the competitive position of AECL by disclosing sensitive commercial information about the design and/or operation of CANDU reactors and/or the ACR to other parties whose commercial interests may be adverse to those of AECL. Also, the information contained in these reports has been developed at significant costs to AECL (the parent company of AECL Technologies).

We have reviewed your application and the material in accordance with the requirements of 10 CFR 2.790 and, on the basis of your statements, have determined that the submitted information sought to be withheld contains proprietary commercial information and should be withheld from public disclosure. Therefore, the material listed above and identified as proprietary, will be withheld from public disclosure pursuant to 10 CFR 2.790(a)(4) and 9.17(a)(4).

Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned to inspect the documents. If the need arises, we may send copies of this information to our consultants working in this area. We will, of course, ensure that the consultants have signed the appropriate agreements for handling proprietary information.

If the basis for withholding this information from public inspection should change in the future such that the information could then be made available for public inspection, you should promptly notify the NRC. You also should understand that the NRC may have cause to review

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this determination in the future, for example, if the scope of a Freedom of Information Act request includes your information. In all review situations, if the NRC makes a determination adverse to the above, you will be notified in advance of any public disclosure.

If you have any questions regarding this matter, I may be reached at 301-415-4125.

Sincerely,

/RA/

James Kim, ACR Project Manager
New Reactors Section
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Project No. 722

cc: See next page

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ACR-700

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