AECL TECHNOLOGIES INC.

June 11, 2004

Our File: 108US-01321-021-001
108US-ACNU04-0006L

Your File: Project No. 722

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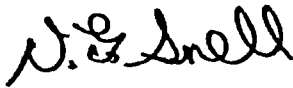Document Control Desk,
Washington, D.C. 20555

Attention: Ms. B. Sosa
Project Manager, ACR

Re: **ACR-700 Physics Codes Workshop Materials – Public Version**

During the week of April 19, 2004, NRC staff participated in an ACR-700 physics codes workshop in Sheridan Park, Mississauga. The enclosed CD contains the non-proprietary presentations and code materials that were used and presented during the workshop. The contents of the CD are listed in Attachment 1. Proprietary versions of the workshop material will be submitted under a separate cover.

If you have any questions on this letter and/or the enclosed material please contact me at (905) 823-9060 extension 4596.

Yours sincerely,

Victor G. Snell
Director, ACR Safety and Licensing

/Attachment:
1. List of Material Contained on Public Version of ACR-700 Physics Workshop CD-ROM

/Enclosure:
1. CD containing the public versions of the physics code workshop materials as listed in attachment 1 of this letter

AECL

TECHNOLOGIES INC.

List of Material Contained on Public Version of ACR-700 Physics Workshop CD-ROM

Reactor Physics Code Workshop Program
(reactor_physics-code_workshop_program_PUBLIC.pdf)

DRAGON

- Presentations
  - Workshop on DRAGON Practise (dragon_practise_PUBLIC.pdf)
  - DRAGON Theory for 3- D CANDU Problems (Diapo.pdf,
    marleau_dragon_theory_presentation.pdf)

- Documents
  - DRAGON Theory for 3-D CANDU Problems (marleau_CourseNotes.pdf)

RFSP

- Presentations
  - RFSP Training Course – Course Agenda (Theory1.pdf)
  - Role of RFSP and General Capabilities (Theory2.pdf)
  - RFSP Model (Theory3.pdf)
  - Time- Average Model (* TIME- AVER Module) (Theory4.pdf)
  - Spatial Kinetics (* CERBERUS Module) (Theory5.pdf)

- Documents
  - RFSP Workshop Outline (RFSP Workshop.pdf)

WIMS

- Presentations
  - WIMS- AECL Practice (WIMS-AECL practice_PUBLIC.pdf)
  - Validation of WIMS- IST (WIMS presentation 4_Validation2.pdf)
  - T16MAC (WIMS presentation 5_T16MAC2_PUBLIC.pdf)
  - Overview OF WIMS- AECL Computing Methods (WIMS presentation_a_MTR.pdf)
  - Resonance Self- Shielding Considerations in WIMS
    (WIMS presentation_b _Resonance1.pdf)
  - Spectrox, Leakage and Burnup (WIMS presentation_c_Spectrox_leak_burn2.pdf)
  - WIMS- AECL/ RFSP- IST Interface (wims-rfsp_interface_PUBLIC.pdf)

- Documents
  - WIMS-AECL Course Notes, 2004 April 19 (WIMS Course Notes_PUBLIC.pdf)

AECL

TECHNOLOGIES INC.

- Generation of the WIMS Tables for Use in RFSP-IST – Outline (WIMS Table Practise Course.pdf)
- Generation of the WIMS Tables for Use in RFSP-IST – Outline (WIMS Table Practise Outline.pdf)
- Contents (contents.pdf)