

January 09, 2004

Our File: 108US-01321-021-001
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 Fuel Handling Related Movie and CAD Animation

In support of NRC's pre-application review of the ACR, specifically focus topic # 8 (On-power fueling) please find enclosed two CDs containing a simplified CAD animation showing a generalized CANDU 6 fueling sequence as follows:

- Fueling machine motion across the reactor face,
- The upstream fueling machine latching on to an end fitting,
- With snout, closure and then shield plug removed new bundles are inserted into the channel in pairs,
- The view pans across the reactor core to the outlet channel showing the fuel string move as bundle pairs are taken out downstream,
- The bundles are shown going into alternate magazine stations,
- The view pans across as the downstream fueling machine pushes the fuel string back into the channel while replacing the end of the shield plug,
- After replacement of the closure and snout plug both fueling machines do safety checks and disconnect from the channel.

Also enclosed is a DVD containing a movie showing CANDU 6 fuel handling equipment and activities during station commissioning activities.

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If you have any questions with regards this letter and/or the enclosed material please contact the undersigned at (905) 823-9060 extension 6543.

Sincerely,


Vince J. Langman
ACR Licensing Manager

/Enclosures:

1. Two CDs, each containing two versions of a generalized CANDU 6 fueling sequence CAD animation as described in this letter (file *FM.mov*, which is higher quality version, and file *FM CINIPACK compression.avi*).
2. DVD containing a CANDU 6 fuel handling equipment and activities movie as described in this letter.

Please note that the enclosures listed above were sent to Belkys Sosa, ACR Project Manager, with a separate cover.