

# MIT NUCLEAR REACTOR LABORATORY

AN MIT INTERDEPARTMENTAL CENTER

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April 18, 2012

Bernard White, Senior Project Manager  
Licensing Branch  
Division of Spent Fuel Storage and Transportation  
Office of Nuclear Material Safety and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Re: Docket No. 71-9341

Dear Mr. White:

In your letter of March 22, 2012, you requested further details as to the specifications of the Parker-Hannifin seals used in lieu of the unavailable Ranier seals in our shipment made on December 9, 2011. The seals are NAS1523C10N used in the lower drain of the BEA Research Reactor (BRR) cask, Certificate of Compliance no. 9341, docket 71-9341.

Section 8.1.5.2 of the BRR safety analysis report gives material and testing specifications for these seals. The Parker-Hannifin and Ranier seals used in our shipment meet all of these material (ASTM M4AA710 A13 B13 F17 F48 Z) and testing (durometer, tensile strength and elongation, heat resistance, compression set, cold temperature resistance, and cold temperature resilience) specifications with the exception that the Parker-Hannifin seals did not undergo a TR-10 cold temperature resilience test as specified in section 8.1.5.2.6. To the best of our knowledge, this is the only difference between the two seals.

Please do not hesitate to contact me if you need further information.

Sincerely,

Thomas H. Newton, Jr., Ph.D, PE  
Director of Reactor Operations  
MIT Research Reactor

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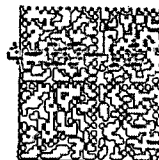
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