



Duquesne Light

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December 19, 1985

Director of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Attn: Mr. Steven A. Varga, Chief
Operating Reactors Branch No. 1
Division of Licensing
Washington, DC 20555

Reference: Beaver Valley Power Station, Unit No. 1
Docket No. 50-334, License No. DPR-66
Extension of Toughness Criteria for Mechanistic Fracture
Evaluation

Gentlemen:

In our February 19, 1985 submittal of WCAP-10743 "Technical Bases for Eliminating Large Primary Loop Pipe Rupture as a Structural Design Basis for Beaver Valley Unit 1", we informed you that the predicted end-of-life toughness for some of the material heats used in the primary loop piping did not meet the current Westinghouse toughness criteria to justify a leak-before-break analysis until end of life. In order to resolve this issue, we have contracted Westinghouse to perform work to justify an extension of the toughness criteria to include all the material heats in service at Beaver Valley Unit 1. Presently, Westinghouse has developed alternate fracture toughness criteria and has recently submitted generic WCAP 10931 "Toughness Criteria for Thermally Aged Cast Stainless Steel" to the NRC for review. After the NRC review of WCAP 10931 is completed, Westinghouse will perform a leak-before-break analysis for Beaver Valley Unit 1 which qualifies the entire primary loop piping until end of life.

If you have any questions concerning this matter, please contact my office.

Very truly yours,

J. D. Sieber
J. D. Sieber
Senior Manager
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cc: Mr. W. M. Troskoski, Resident Inspector
U. S. Nuclear Regulatory Commission
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