

Docket
File



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

February 6, 1992

Docket No. 50-334
Serial No. BV-92-009

Mr. J. D. Sieber, Vice President
Nuclear Group
Duquesne Light Company
Post Office Box 4
Shippingport, Pennsylvania 15077-0004

Dear Mr. Sieber:

SUBJECT: MARGIN DETERMINATION METHODOLOGY IN RT_{PTS} CALCULATIONS (TAC M82493)

By letter dated December 16, 1991, Duquesne Light Company (DLC) submitted projected values of RT_{PTS} for reactor vessel beltline materials in accordance with the reporting requirements of 10 CFR 50.61(b)(1). In that submittal, DLC included the results of calculations performed in accordance with 10 CFR 50.61(b)(2) for all beltline materials. For the lower shell plate B6903-1 and longitudinal weld seams 19-714 A and B, results performed in accordance with 10 CFR 50.61(b)(3) also were included. These later calculations applied values for margin and chemistry factor determined using the methodology contained in Regulatory Guide 1.99, Revision 2. DLC requested NRC approval of the methodology for margin determination as derived from Regulatory Guide 1.99, Revision 2, and plans to use this methodology in future responses to 10 CFR 50.61(b)(1).

In determining RT_{PTS} , 10 CFR 50.61(b)(3) does not specify a margin value when plant specific surveillance capsule data is available. Because the Beaver Valley Unit 1 surveillance data is credible as defined in Regulatory Guide 1.99, Revision 2, DLC applied Regulatory Position 2.1 (which designates a margin of 17°F) from Regulatory Guide 1.99, Revision 2 in calculating RT_{PTS} values.

We have reviewed both the submittal methodology and calculations. Based on our evaluation, we conclude that the methodology proposed by DLC for the determination of margin is acceptable. However, in our review of the calculations, we noted that the lower shell plate (B6903-1) fluence value differed from the value on record with NRC from Westinghouse surveillance report WCAP-9860. Additionally, in accordance with Branch Technical Position MTEB-E.2 for fracture toughness requirements, the values used in calculations for plates must be limited to transverse direction data.

We request that you verify the fluence value for lower shell plate B6903-1, and that you resubmit RT_{PTS} calculations incorporating the verified fluence value and limiting the data to transverse direction only. Also, we request submittal of RT_{PTS} calculations upon removal of the upcoming surveillance capsule from Beaver Valley Unit 1.

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Mr. J. D. Sieber

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The requirements of this letter affect fewer than 10 respondents, and therefore, are not subject to Office of Management and Budget review under OMB under P.L. 96-511.

Sincerely,

/s/

Albert W. De Agazio, Sr. Project Manager
Project Directorate I-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

cc: See next page

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Mr. J. D. Sieber
Duquesne Light Company

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