

October 21, 1987

Docket No. 50-334

Mr. J. D. Sieber, Vice President
Duquesne Light Company
Nuclear Operation
Post Office Box 4
Shippingport, PA 15077

Dear Mr. Sieber:

SUBJECT: BEAVER VALLEY UNIT 1 - REMOVAL OF LARGE-BORE SNUBBERS (TAC 65107)

By letter dated September 24, 1987, you responded to our request for additional information on the subject matter. We have reviewed your response and uncovered further information need (see enclosure). Please respond to this request as soon as possible such that we have two weeks to complete this review. We understand that, upon NRC approval, you plan to remove the snubbers in the upcoming refueling outage commencing in early December.

The reporting and/or recordkeeping requirements contained in this letter affect fewer than ten respondents; therefore, OMB clearance is not required under P.L. 96-511.

Sincerely,

/s/

Peter S. Tam, Project Manager
Project Directorate I-4

Enclosure:
As stated

cc w/enclosure:
See next page

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Mr. J. D. Sieber
Duquesne Light Company

cc:

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REQUEST FOR ADDITIONAL INFORMATION
ON ELIMINATION OF POSTULATED PRIMARY LOOP PIPE RUPTURES
AS A DESIGN BASIS

DUQUESNE LIGHT COMPANY
BEAVER VALLEY POWER STATION UNIT 1
DOCKET NO. 50-334

- (1) The staff has performed independent flaw stability computations based on elastic-plastic fracture mechanics (EPFM) procedures using data specific to Beaver Valley Unit 1 as provided by the licensee. However, the staff's results disagreed with those provided in Table 5-1 in WCAP-11317, Supplement 1, relative to the factor of 2 on the leakage flaw size. The licensee used the EPFM procedures in Reference 5.1 in WCAP-11317, Supplement 1. The staff benchmarked the licensee's procedures with the staff's procedures in NUREG-1061, Volume 3, and concluded that the licensee's procedures resulted in higher values of the crack driving force parameter "applied J" as compared with the staff's procedures. However, the "applied J" values presented in the top half of Table 5-1 in WCAP-11317, Supplement 1 to demonstrate the factor of 2 on the leakage flaw size were less than those obtained by the staff. The licensee should verify the calculations and resubmit the "applied J" values used to demonstrate the factor of 2 on the leakage flaw size.
- (2) In Section 3.0 in WCAP-11317, Supplement 1, the licensee stated that the average austenitic material properties were determined by multiplying the Code minimum values by a factor of 1.25. The licensee should provide a brief justification for this estimation procedure.

Principal contributor:

Samson Lee, reviewer