

# Duquesne Light Company

Beaver Valley Power Station  
PO Box 4  
Shippingport, PA 15077-0004

July 30, 1991

JOHN D. SIEBER  
Vice President - Nuclear Group

(412) 393-5286

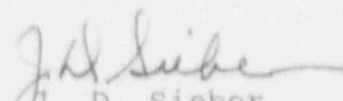
U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

Subject: Beaver Valley Power Station, Unit No. 1 and No. 2  
BV-1 Docket No. 50-334, License No. DPR-66  
BV-2 Docket No. 50-412, License No. NPF-73  
NRC Bulletin 89-01, Supplement 2

Attached is the Duquesne Light Company response to NRC Bulletin 89-01, Supplement 2 "Failure of Westinghouse Steam Generator Tube Mechanical Plugs." The attachment provides the actions taken at Beaver Valley Power Station Units 1 & 2 to meet the requirements of the Bulletin.

If you have any questions concerning this response, please contact Mr. Brian F. Sepelak at (412) 393-5282.

Sincerely,

  
J. D. Sieber  
Vice President  
Nuclear Group

Attachment

cc: Mr. J. Beall, Sr. Resident Inspector  
Mr. T. T. Martin, NRC Region I Administrator  
Mr. A. W. DeAgazio, Project Manager  
Mr. M. L. Bowling (VEPCO)

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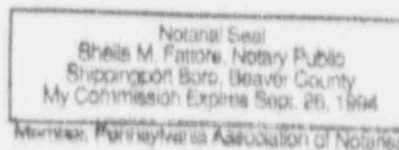
COMMONWEALTH OF PENNSYLVANIA)

) SS:

COUNTY OF BEAVER )

On this 30th day of July, 1991,  
before me Shella M. Fattore, a Notary Public in and for said  
Commonwealth and County, personally appeared J. D. Sieber, who being  
duly sworn, deposed, and said that (1) he is Vice President - Nuclear  
of Duquesne Light, (2) he is duly authorized to execute and file the  
foregoing Submittal on behalf of said Company, and (3) the statements  
set forth in the Submittal are true and correct to the best of his  
knowledge, information and belief.

Shella M. Fattore



DUQUESNE LIGHT COMPANY  
Nuclear Group  
Beaver Valley Power Station Unit No. 1 and 2

Attachment

Reply to NRC Bulletin 89-01, Supplement 2

Item 1

Addressees are requested to verify that information contained in Table 2 of Reference 4 for their plants is correct for plugs fabricated from group 2 heats. (Addressees have previously verified similar information for group 1 plugs in response to the original bulletin.) The specific information to be verified is the number of Westinghouse mechanical plugs installed in the hot-leg and cold-leg side of each steam generator, categorized by heat number and date of installation. The plug operating temperatures for each plant given in this Table should also be verified. If information from this Table is incorrect, addressees should provide correct information. Addressees are requested to so state if their plants have not installed Westinghouse mechanical plugs from group 2 heats.

Response

We have reviewed the information contained in Table 2 of Reference 4 (WCAP-12244, Revision 3, Addendum 2) for Beaver Valley Unit 1 (BV-1) and Beaver Valley Unit 2 (BV-2). The information provided in Table 2 is correct for number of plugs, plug heat number, steam generator hot leg or cold leg, and date of installation for both BV-1 and BV-2. However, the plug operating temperature for the BV-1 hot leg (HL) should be approximately 607°F. The remaining plug operating temperatures for BV-1 and BV-2 are correct.

Item 2

Addressees are requested to take the following actions, to be implemented initially during any refueling outage or extended outage (greater than four weeks) which ends 60 days or more following receipt of this bulletin and during all future refueling outages. For the period of time between receipt of the bulletin and 60 days, the actions requested in the original version of this bulletin continue to be applicable for plugs fabricated from group 1 heats.

- a) Addressees should implement appropriate remedial actions (i.e., repair and/or replacement) for all plugs whose estimated lifetime in item 2b, below does not extend to the next refueling outage.
- b) Remaining lifetime estimates (in effective full power days (EFPD)) are given in Table 2 of Reference 4 in the column entitled "Remain EFPD to MIN." These remaining lifetime estimates are relative to reference dates given in the column entitled "Reference CALC Dates." These remaining lifetime estimates may be used directly. These estimates should be adjusted to reflect any corrections noted in Actions Requested, item 1.

Attachment

Reply to NRC Bulletin 89-01, Supp. 2

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- c) For refueling outages or extended outages ending prior to November 30, 1991, remedial actions for plugs fabricated from NX-5222 may be deferred until the next scheduled refueling outage.
- d) Installation of Westinghouse mechanical plugs fabricated from Inconel 600 should be discontinued.
- e) If for any refueling outage, the addressee does not plan to satisfy items 2a to 2d above, an alternative plan for insuring plug integrity, with appropriate technical justification, should be submitted to the NRC at least 30 days before the end of the refueling outage.
- f) Prior to any plug repairs or replacement, addressees are reminded that their responsibilities under ALARA require analysis of the various plug repair or replacement methods. In choosing a plug repair or replacement method, the licensee should consider the accessibility of the plugs and the dose reduction benefit of using robotic manipulators. Prior to plug repair or replacement, the licensee should consider steam generator decontamination and/or local shielding to reduce working area dose rates.

Response

All of the Westinghouse Alloy 600 steam generator tube mechanical plugs installed in BV-1 and BV-2 have been repaired using either the Westinghouse "plug-in-plug" or Babcock & Wilcox "plug-and-plug" method. At BV-1, the repairs were performed during the seventh and eighth refueling outages. At BV-2, the repairs were performed during the first and second refueling outages.

In accordance with Item 2.d, installation of Westinghouse mechanical plugs fabricated from Inconel 600 will be prohibited at BV-1 and BV-2.