

Duquesne Light Company

Beaver Valley Power Station
P.O. Box 4
Shippingport, PA 15077-0004

JOHN D. SIEBER
Senior Vice President and
Chief Nuclear Officer
Nuclear Power Division

(412) 393-5255
Fax (412) 643-8059

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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
Additional Information Supporting TSCR 208/74
(TAC Nos. M85819/M85820)

Attached are summaries of the Beaver Valley Unit No. 1 and No. 2 peak clad temperature determinations which support the reported values in our February 19, 1993 proposed operating license change request. This information is provided in response to a telephone conversation between our respective staffs which occurred on April 12, 1993.

If you have any questions regarding this submittal, please contact Mr. Steve Sovick at (412) 393-5211.

Sincerely,

John D. Sieber
J. D. Sieber

Attachment

cc: Mr. L. W. Rossbach, Sr. Resident Inspector
Mr. T. T. Martin, NRC Region I Administrator
Mr. G. E. Edison, Project Manager
Mr. M. L. Bowling (VEPCO)

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April 1993



BVPS UNIT 1 LBLOCA

1. Analysis of record:

- BASH analysis described in UFSAR 14.3.2 and 14.3.2.1 (full spectrum analysis).
 - PCT for most limiting break ($C_D = 0.4$) = 1918°F (UFSAR, page 14.3-8) [Key Assumptions: 10% steam generator tubes plugged - UFSAR 14.3.2.2 first paragraph]
- Partial BASH analysis described in UFSAR 14.3.2.2 (re-analyzed limiting break only)
 - PCT calculated as 2149°F (UFSAR, page 14.3-10) [Key Assumptions: 20% steam generator tubes plugged - UFSAR 14.3.2.2]

2. Most recently reported change to 1 above prior to 2/19/93:

- None

3. Specific changes since 2 above prior to 2/19/93:

- Fuel rod backfill initial pressure uncertainty⁽¹⁾ 2°F⁽²⁾
- RCS Tavg uncertainty 2°F⁽³⁾

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- (1) Letter ET-NRC-91-3647, 12/20/91, Interim Report No. 91-021, S.R. Tritch (Westinghouse to NRC).
 - (2) Interim issue under Westinghouse evaluation.
 - (3) Proposed license change request dated 2/19/93; plant specific uncertainty calculation.

BVPS UNIT 1 SBLOCA

1. Analysis of record:

- NOTRUMP analysis described in UFSAR 14.3.1
 - PCT for most limiting break (3" break) = 1802°F (UFSAR, page 14.3-4) [Key Assumptions: as described in UFSAR 14.3.1]

2. Most recently reported change to 1 above prior to 2/19/93:

- Annual 10 CFR 50.46 report dated July 20, 1992
 - PCT reported as 2010°F

3. Specific changes since 2 above prior to 2/19/93:

- Auxiliary feedwater flow rate change 175°F(1)
- Remove penalty for SBLOCA rod internal pressure initial condition assumption -53°F(2)
- Auxiliary feedwater pump start signal assumption change 6°F
- Burst/Blockage SPIKE interim penalty 204°F(3)
- Burst/Blockage SPIKE increase due to 2/19/93 proposed license change request 10°F(3)
- Non-cycle specific power shape/P-bar-HA -118°F(4)
- Cycle specific power shape/P-bar-HA -42°F(4)
- RCS Tav_g uncertainty 5°F(5)

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- (1) This penalty is assigned as a contingency to accommodate a reduced auxiliary feedwater flow rate, if needed. No credit is currently taken for it.
- (2) This issue is bounded by the Burst/Blockage SPIKE interim issue. These two issues are mutually exclusive. See letter ET-NRC-91-3647, 12/20/91, S. R. Tritch (Westinghouse to NRC), Interim Report No. 91-021.
- (3) This is an interim issue under evaluation. See letter ET-NRC-91-3647 (above), Interim Report No. 91-005.
- (4) Plant specific input values were used rather than the previous more generic, bounding values. This is not a change to the model.
- (5) Proposed license change request dated 2/19/93; plant specific uncertainty calculation.

BVPS UNIT 2 LBLOCA

1. Analysis of record:

- BART analysis described in UFSAR 15.6.5
 - PCT for most limiting break ($C_D = 0.4$) = 2120°F (UFSAR Table 15.6-9, UFSAR 15.6.5.3.3, page 15.6-18) [Key Assumptions: 5% steam generator tubes plugged - UFSAR Table 15.6-9]

2. Most recently reported change to 1 above prior to 2/19/93:

- Annual 10 CFR 50.46 report dated July 20, 1992.
 - PCT reported as 2191°F

3. Specific changes since 2 above prior to 2/19/93:

- WREFLOOD structural heat model -25°F⁽¹⁾

(1) This change was identified by Westinghouse to us at approximately the same time our 2/19/93 submittal was issued and is, therefore, not reflected in item 2 above (2191°F)

BVPS UNIT 2 SBLOCA

1. Analysis of record:

- NOTRUMP analysis described in UFSAR 15.6.5
 - PCT for most limiting break (4" break) = 1399°F
(UFSAR 15.6.5.3.3, page 15.6-19 and Table 15.6-10)
[Key Assumptions: as described in UFSAR 15.6.5]

2. Most recent reported change to 1 above prior to 2/19/93:

- Annual 10 CFR 50.46 report dated July 20, 1992
 - PCT reported as 2176°F⁽¹⁾

3. Specific changes since 2 above prior to 2/19/93:

- None

(1) The summary reported in our 2/19/93 submittal provides an itemization of this reported PCT.