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10 CFR 50.90

April 23, 2004

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Peach Bottom Atomic Power Station, Unit 2  
Facility Operating License No. DPR-44  
NRC Docket No. 50-277

Subject: Supplement to the Request for License Amendment Related to  
Main Steam Tunnel Temperature - High, dated February 12, 2004

References: (1) Letter from M. P. Gallagher (Exelon Generation Company, LLC) to USNRC,  
dated February 12, 2004  
(2) Conference call between Exelon and NRC staff on April 20, 2004

This letter is being sent to supplement the License Amendment Request (LAR) to support the Main Steam Tunnel Temperature - High allowable value revision (Reference 1) at Peach Bottom Atomic Power Station (PBAPS), Unit 2. This LAR proposed to increase the setpoint for the Main Steam Tunnel Temperature - High for those instruments within the Reactor Building.

In the Reference 2 conference call, the U. S. Nuclear Regulatory Commission requested additional information. Attachment 1 to this supplemental letter provides a response to the request for additional information. Attachment 2 to this supplement letter provides the Main Steam Tunnel Temperature Allowable Value Setpoint Calculation requested during the conference call.

There is no impact to the No Significant Hazards Consideration submitted in the Reference 1 letter. There are no additional commitments contained within this letter.

If you have any questions or require additional information, please contact Doug Walker at (610) 765-5726.

I declare under penalty of perjury that the foregoing is true and correct.

Respectfully,

Executed on

04-23-04



Michael P. Gallagher  
Director, Licensing and Regulatory Affairs  
Exelon Generation Company, LLC

Attachments: 1. Response to Request for Additional Information  
2. Main Steam Line Isolation On High Steam Tunnel Temperature Allowable Value Setpoint Calculation

cc: H. J. Miller, Administrator, Region I, USNRC  
C. W. Smith, USNRC Senior Resident Inspector, PBAPS  
G. F. Wunder, Senior Project Manager, USNRC (via FedEx)  
R. R. Janati - Commonwealth of Pennsylvania

A-1507

**ATTACHMENT 1**

**PEACH BOTTOM ATOMIC POWER STATION  
UNIT 2**

**Docket No. 50-277**

**License No. DPR-44**

**Supplement to License Amendment Request for  
"Main Steam Tunnel Temperature - High"**

**Response to Request for Additional Information**

## Response to Request for Additional Information

### Question by the NRC:

1. The Main Steam Tunnel Allowable value has been increased from 200 degrees F to 230 degrees F. The Margin between the analytical limit and the allowable value has been reduced as a result of this revision. How does this meet the requirements of the GE Setpoint Methodology?

### **Response**

As stated in section 4.0 of the license amendment request, the GE setpoint methodology was used to determine the proposed setpoint.

The setpoint calculation for the current setpoint uses a 220 degree F analytic limit per the original licensing of the plant and as stated in the UFSAR. The loop uncertainty calculation shows that an allowable value slightly above 210 degrees F is acceptable. The calculation added additional margin to result in an allowable value of 200 degrees F.

The setpoint calculation for the proposed setpoint uses a 240 degree F analytic limit. The setpoint calculation shows that an allowable value slightly above 230 degrees F is acceptable. A small amount of additional margin was added to round off the allowable value to 230 degrees F for human factors reasons. A copy of the setpoint calculation, titled "Loop Uncertainty Calculation for Loop Number TE-4931A," is included as Attachment 2. The additional margin is described in the text of the calculation in section 2.2.4 and is shown as an input in the calculation in section 6.1.8. The calculation for allowable value is shown in section 7.7.