



Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000  
June 16, 2005

TVA-BFN-TS-428

10 CFR 50.90

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Mail Stop: OWFN P1-35  
Washington, D.C. 20555-0001

Gentlemen:

In the Matter of ) Docket No. 50-259  
Tennessee Valley Authority )

**BROWNS FERRY NUCLEAR PLANT (BFN) - UNIT 1 - SUPPLEMENT TO  
TECHNICAL SPECIFICATIONS (TS) CHANGE 428 - UPDATE OF PRESSURE-  
TEMPERATURE (P-T) CURVES**

This letter supplements proposed Technical Specification (TS) 428, which revises the reactor vessel P-T limit curves.

TVA identified a typographical error on the mark-up and clean TS pages 3.4-29 and 3.4-29a. The notes on these pages should have referenced 12 Effective Full Power Years (EFPY) instead of 16 EFPY. Updated pages are enclosed with this submittal.

TVA has determined that the supplemental information provided does not affect the no significant hazards considerations associated with the proposed amendment and TS changes. The proposed amendment and TS changes still qualify for a categorical exclusion from environmental review pursuant to the provisions of 10 CFR 51.22(c)(9).

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If you have any questions about this submittal, please contact me at (256) 729-2636.

I declare under penalty of perjury that the foregoing is true and correct. Executed on June 16, 2005.

Sincerely,



William D. Crouch  
Acting Manager of Licensing  
and Industry Affairs

References:

1. TVA letter, T.E. Abney to NRC, dated December 6, 2004, "Browns Ferry Nuclear Plant (BFN) Unit 1 - Technical Specifications (TS) Change TS 428 - Update Of Pressure-Temperature (P-T) Curves."

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Enclosure

cc (Enclosure):

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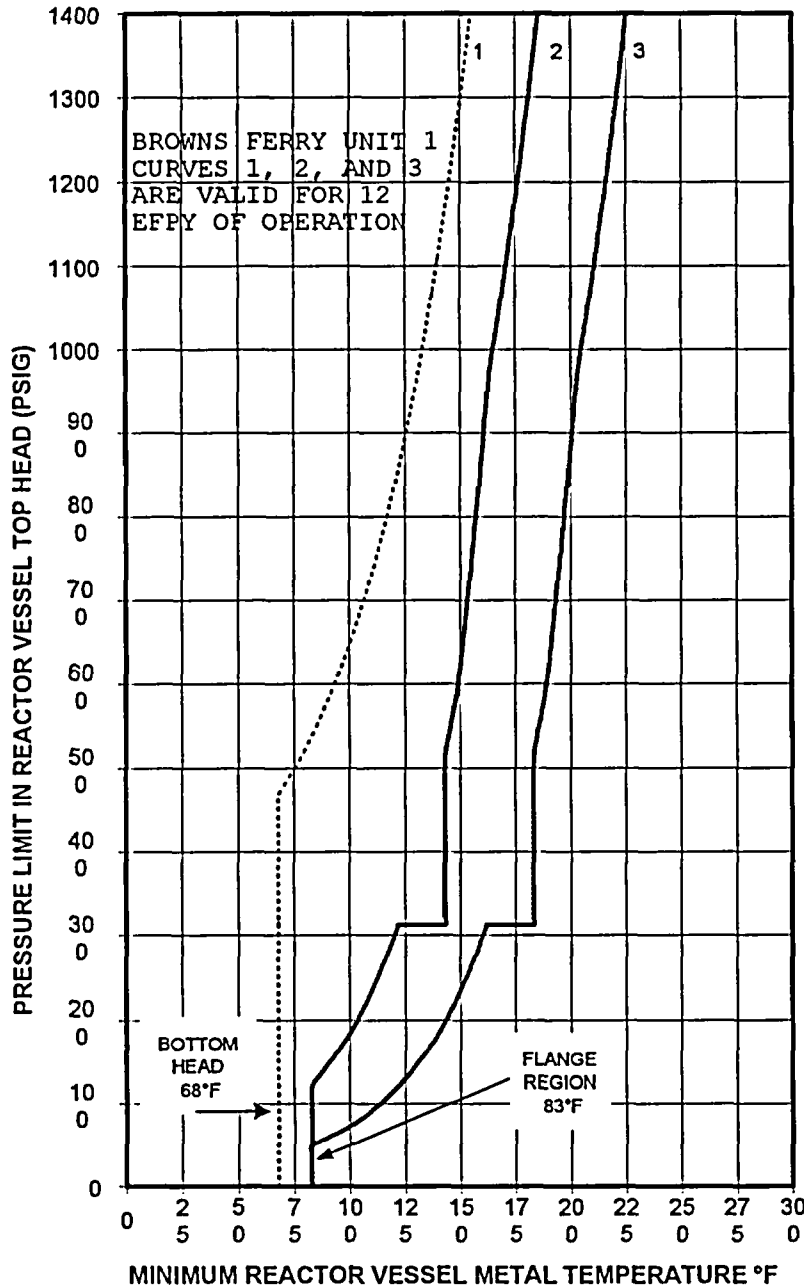
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ENCLOSURE  
BROWNS FERRY NUCLEAR PLANT, UNIT 1  
TECHNICAL SPECIFICATION CHANGE REQUEST (TS 428)  
UPDATE OF PRESSURE-TEMPERATURE (P-T) CURVES



Curve No. 1  
Minimum temperature for bottom head during mechanical heatup or cooldown following nuclear shutdown.

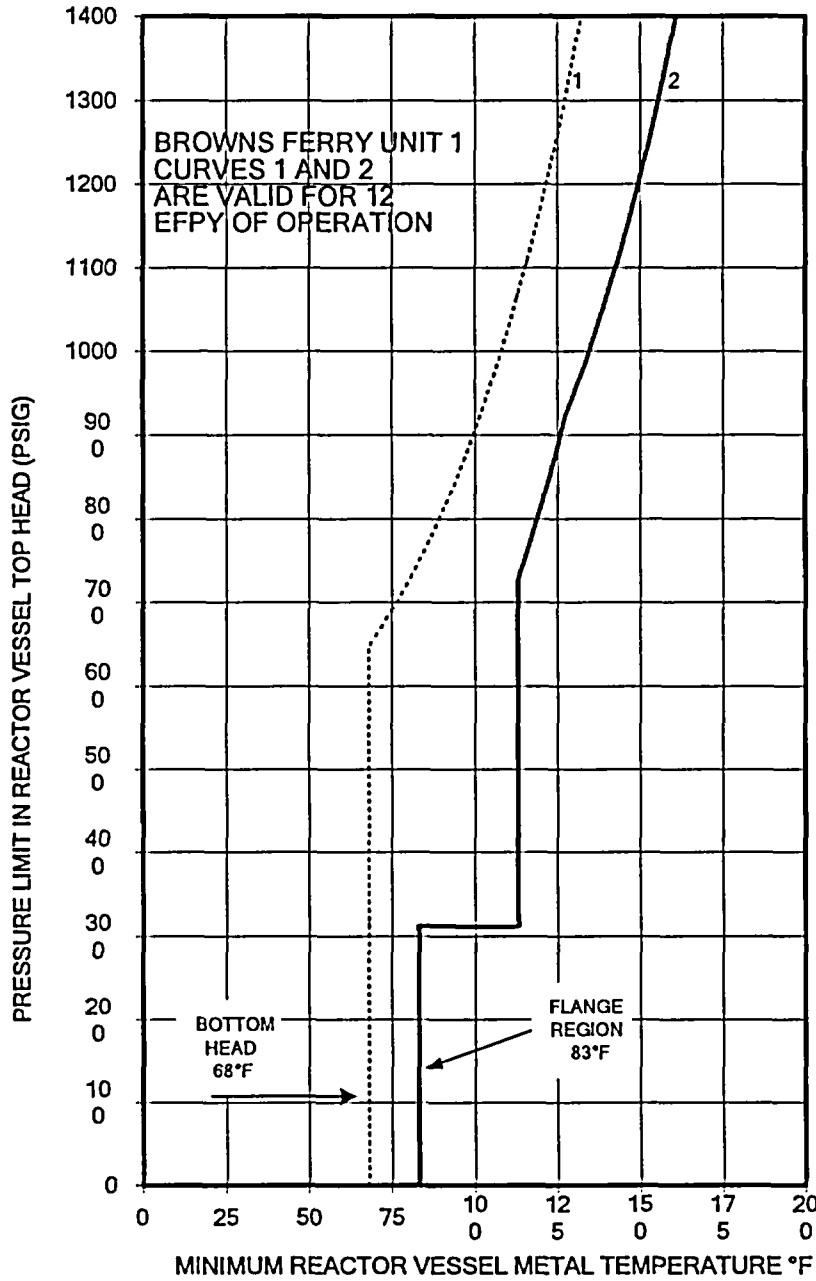
Curve No. 2  
Minimum temperature for upper RPV and beltline during mechanical heatup or cooldown following nuclear shutdown.

Curve No. 3  
Minimum temperature for core operation (criticality).

Notes  
These curves include sufficient margin to provide protection against feedwater nozzle degradation. The curves allow for shifts in  $RT_{NDT}$  of the Reactor vessel beltline materials, in accordance with Reg. Guide 1.99 Rev. 2 to compensate for radiation embrittlement for 12 EFPY.

The acceptable area for operation is to the right of the applicable curves.

**Figure 3.4.9-1**  
**Pressure/Temperature Limits for**  
**Mechanical Heatup, Cooldown following Shutdown, and**  
**Reactor Critical Operations**



**Curve No. 1**  
Minimum temperature for bottom head during in-service leak or hydrostatic testing.

**Curve No. 2**  
Minimum temperature for upper RPV and beltline during in-service leak or hydrostatic testing.

**Notes**  
These curves include sufficient margin to provide protection against feedwater nozzle degradation. The curves allow for shifts in  $RT_{NDT}$  of the Reactor vessel beltline materials, in accordance with Reg. Guide 1.99 Rev. 2 to compensate for radiation embrittlement for 12 EFPY.

The acceptable area for operation is to the right of the applicable curves.

Figure 3.4.9-2  
Pressure/Temperature Limits for  
Reactor In-Service Leak and Hydrostatic Testing