

June 16, 2006

Mr. Karl E. Singer  
Chief Nuclear Officer and  
Executive Vice President  
Tennessee Valley Authority  
6A Lookout Place  
1101 Market Street  
Chattanooga, TN 37402-2801

SUBJECT: BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2 AND 3 - REQUEST FOR  
ADDITIONAL INFORMATION REGARDING INSTRUMENT SETPOINT  
PROGRAM (TS-453) (TAC NOS. MC9518, MC9519, AND MC9520)

Dear Mr. Singer:

By letter dated January 10, 2006, Tennessee Valley Authority (the licensee) submitted Technical Specification change TS-453, Instrument Setpoint Program.

Based on our review of your submittal, the Nuclear Regulatory Commission (NRC) staff finds that a response to the enclosed request for additional information is needed before we can complete the review. As discussed with Mr. Bill Crouch of your staff, the NRC staff requests a response within 30 days from the date of issuance of this letter.

If you have any questions, please contact me at (301) 415-4041.

Sincerely,

***/RA by E. Brown for/***

Margaret H. Chernoff, Project Manager  
Plant Licensing Branch II-2  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket Nos. 50-259, 50-260, and 50-296

Enclosure: Request for Additional  
Information

cc w/encl: See next page

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REQUEST FOR ADDITIONAL INFORMATION  
INSTRUMENT SETPOINT PROGRAM  
TENNESSEE VALLEY AUTHORITY  
BROWNS FERRY NUCLEAR PLANT, UNITS 1, 2 AND 3  
DOCKET NOS. 50-259, 50-260, AND 50-296

Concerning Technical Specification Table 3.3.1.1-1, Function 2. Average Power Range Monitors, a. Neutron Flux - High (Setdown) and b. Flow Biased Simulated Thermal Power - High, please provide:

- (a) An overview description of the testing and calibration of the instrumentation that supports these functions. This description should include self-testing and input signal conversion calibration in the digital system. The description should also address all manual testing and calibration. Include schedule constraints and considerations for each test. Show how this testing, including the associated schedule considerations, is accommodated in the setpoint calculations.
- (b) The setpoint calculations including Limiting Trip Setpoint value that is the least conservative acceptable target value for the as-left setting, the as-left tolerance (value), the as-found tolerance (value), and the allowable value;
- (c) Describe the procedure for operability determination of the instruments, and the schedule upon which the procedure is based and executed.

Enclosure

## **BROWNS FERRY NUCLEAR PLANT**

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