

FEB 24 1986

Docket Nos.: 50-259/260/296

Mr. Steven A. White  
Manager of Nuclear Power  
Tennessee Valley Authority  
6N 38A Lookout Place  
1101 Market Street  
Chattanooga, Tennessee 37402-2801

Dear Mr. White:

SUBJECT: BROWNS FERRY UNIT NOS. 1, 2 AND 3 - TECHNICAL SPECIFICATIONS

On December 18, 1985, we issued Amendment Nos. 125, 120 and 96 to Facility Operating License Nos. DPR-33, DPR-52 and DPR-68 in response to your application dated April 8, 1985. On April 5, 1985, we had issued Amendment Nos. 116, 111 and 86 to the preceding licenses. Due to the timing of these letters, your submittal of April 8, 1985 did not include the changes made by our letter of April 5, 1985. The changes made by Amendment Nos. 116, 111 and 86 were not reflected in Amendment Nos 125, 120 and 96. Corrected pages are enclosed.

Sincerely,

Original signed by  
Richard J. Clark

Richard J. Clark, Project Manager  
BWR Project Directorate #2  
Division of BWR Licensing

Enclosures:

- 1. Corrected pg. 60, Units 1 & 2
- 2. Corrected pg. 63, Unit 3

cc w/enclosures:  
See next page

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Mr. S. A. White  
Tennessee Valley Authority

Browns Ferry Nuclear Plant  
Units 1, 2, and 3

cc:

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U. S. Nuclear Regulatory Commission  
Reactor Training Center  
Osborne Office Center, Suite 200  
Chattanooga, Tennessee 37411

NOTES FOR TABLE 3.2.A

1. Whenever the respective functions are required to be operable there shall be two operable or tripped trip systems for each function. If the first column cannot be met for one of the trip systems, that trip system or logic for that function shall be tripped (or the appropriate action listed below shall be taken). If the column cannot be met for all trip systems, the appropriate action listed below shall be taken.
  - A. Initiate an orderly shutdown and have the reactor in Cold Shutdown in 24 hours.
  - B. Initiate an orderly load reduction and have Main Steam Lines isolated within eight hours.
  - C. Isolate Reactor Water Cleanup System.
  - D. Isolate Shutdown Cooling.
  - E. Initiate primary containment isolation within 24 hours.
  - F. The handling of spent fuel will be prohibited and all operations over spent fuels and open reactor wells shall be prohibited.
  - G. Isolate the reactor building and start the standby gas treatment system.
  - H. Immediately perform a logic system functional test on the logic in the other trip systems and daily thereafter not to exceed 7 days.
  - I. DELETE
  - J. Withdraw TIP.
  - K. Manually isolate the affected lines. Refer to section 4.2.E for the requirements of an inoperable system.
  - L. If one SGTS train is inoperable take actions H or A and F. If two SGTS trains are inoperable take actions A and F.
2. When it is determined that a channel is failed in the unsafe condition, the other channels that monitor the same variable shall be functionally tested immediately before the trip system or logic for that function is tripped. The trip system or the logic for that function may remain untripped for short periods of time to allow functional testing of the other trip system or logic for that function.
3. There are four sensors per steam line of which at least one sensor per trip system must be operable.
4. Only required in Run Mode (interlocked with Mode Switch).
5. Not required in Run Mode (bypassed by mode switch).

NOTES FOR TABLE 3.2.A

1. Whenever the respective functions are required to be operable there shall be two operable or tripped trip systems for each function. If the first column cannot be met for one of the trip systems, that trip system or logic for that function shall be tripped (or the appropriate action listed below shall be taken). If the column cannot be met for all trip systems, the appropriate action listed below shall be taken.
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  - D. Isolate Shutdown Cooling.
  - E. Initiate primary containment isolation within 24 hours.
  - F. The handling of spent fuel will be prohibited and all operations over spent fuels and open reactor wells shall be prohibited.
  - G. Isolate the reactor building and start the standby gas treatment system.
  - H. Immediately perform a logic system functional test on the logic in the other trip systems and daily thereafter not to exceed 7 days.
  - I. DELETE
  - J. Withdraw TIP.
  - K. Manually isolate the affected lines. Refer to section 4.2.E for the requirements of an inoperable system.
  - L. If one SGTS train is inoperable take actions H or A and F. If two SGTS trains are inoperable take actions A and F.
2. When it is determined that a channel is failed in the unsafe condition, the other channels that monitor the same variable shall be functionally tested immediately before the trip system or logic for that function is tripped. The trip system or the logic for that function may remain untripped for short periods of time to allow functional testing of the other trip system or logic for that function.
3. There are four sensors per steam line of which at least one sensor per trip system must be operable.
4. Only required in Run Mode (interlocked with Mode Switch).
5. Not required in Run Mode (bypassed by mode switch).

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6. Channel shared by RPS and Primary Containment & Reactor Vessel Isolation Control Systems. A channel failure may be a channel failure in each system.
7. A train is considered a trip system.
8. Two out of three SGTS trains required. A failure of more than one will require action A and F.
9. DELETED
10. Refer to Table 3.7.A and its notes for a listing of Isolation Valve Groups and their initiating signals.
11. A channel may be placed in an inoperable status for up to four hours for required surveillance without placing the trip system in the tripped condition provided at least one OPERABLE channel in the same trip system is monitoring that parameter.
12. A channel contains four sensors, all of which must be operable for the channel to be operable.

Power operations permitted for up to 30 days with 15 of the 16 temperature switches operable.

In the event that normal ventilation is unavailable in the main steam line tunnel, the high temperature channels may be bypassed for a period of not to exceed four hours. During periods when normal ventilation is not available, such as during the performance of secondary containment leak rate tests, the control room indicators of the affected space temperatures shall be monitored for indications of small steam leaks. In the event of rapid increases in temperature (indicative of steam line break), the operator shall promptly close the main steam line isolation valves.

13. The nominal setpoints for alarm and reactor trip (1.5 and 3.0 times background, respectively) are established based on the normal background at full power. The allowable setpoints for alarm and reactor trip are 1.2 - 1.8 and 2.4 - 3.6 times background, respectively.
14. Requires two independent channels from each physical location, there are two locations.

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Amendment No. 43, 56, 74, 75, 76, 82, 86, 96 corrected