

400 Chestnut Street Tower II

TVA BFNP TS 127

Dear Mr. Denton:

Docket No. 50-296

TENNESSEE VALLEY AUTHORITY

1135 353

Mr. Harold R. Denton

September 26, 1979

cc (Enclosures):

Mr. Charles R. Christopher
Chairman, Limestone County Commission
P.O. Box 188
Athens, Alabama 35611

Dr. Ira L. Myers
State Health Officer
State Department of Public Health
State Office Building
Montgomery, Alabama 36104

1135 354

ENCLOSURE 1

1135 355

TABLE 3.7.G
CHECK VALVES ON DRYWELL INFLUENT LINES

<u>Valves</u>	<u>Valve Identification</u>	<u>Test Medium</u>
3-554	Feedwater	Air
3-558	Feedwater	Air
3-568	Feedwater	Air
3-572	Feedwater	Air
63-525	Standby Liquid Control Discharge	Air
63-526	Standby Liquid Control Discharge	Air
69-579	RWCU Return (Feedwater Line B)	Air
69-624	RWCU Return (Feedwater Line A)	Air
71-40	RCIC Pump Discharge	Air
73-45	HPCI Pump Discharge	Air
85-576	CRD Hydraulic Return	Air

ENCLOSURE 2

1135 357

JUSTIFICATION FOR
ADDITIONAL REQUESTED CHANGE TO
BROWNS FERRY NUCLEAR PLANT UNIT 3 TECHNICAL SPECIFICATIONS

In Reference 1, General Electric (GE) discusses several mechanisms responsible for initiation and growth of cracks in BWR vessel feedwater nozzles and presents recommendations to provide increased margin against such crack initiation and propagation. One recommendation is to modify the Reactor Water Cleanup (RWCU) System return piping so that the return flow is distributed equally among the feedwater lines. This modification will allow feedwater at low flow rates to be mixed with the higher temperature RWCU return water, thereby lessening the thermal cycling on the feedwater nozzle and the consequent thermal fatigue. TVA plans to perform this modification on Browns Ferry unit 3 during its current major maintenance and refueling outage. Because this modification entails the addition of a check valve, this technical specification change request is needed to revise Table 3.7.G to include the required check valve.

Reference:

1. General Electric Company Service Information Letter No. 208, Revision 1, "Minimizing Feedwater Nozzle Thermal Duty," dated October 1978.

ENCLOSURE 1

1135 359

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1135 361

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