TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

February 7, 1985

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

In the Matter of the Application of) Docket Nos. 50-390
Tennessee Valley Authority 50-391

On January 22 and February 6, 1985, TVA and NRC representatives met to discuss various TVA requested revisions to the draft Watts Bar Nuclear Plant unit 1 Technical Specifications. During the February 6 meeting, TVA agreed to docket its latest proposed revisions (those discussed in the meeting) to technical specifications 3/4.8.4.2 regarding motor-operated valves thermal overload bypass devices. TVA's proposed revisions regarding this matter were favorably received by NRC representatives present at the meeting.

Enclosed are the subject proposed revisions to the technical specification along with the basis/justification supporting the revisions.

If you have any questions concerning this matter, please get in touch with D. B. Ellis at FTS 858-2681.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

R. H. Shell

R. H. Shell
Nuclear Engineer

Sworn to and subscribed before me
this 7th day of Feb 1985.

Bryant M. Lowery
Notary Public

My Commission Expires 4/8/86

Enclosure
cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Mr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

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1/1

ENCLOSURE

T.S. PAGES 3/4 8-44, 3/4 8-45, 3/4 8-46, 3/4 8-47

Technical Specification 3/4.8.4.2 should be revised to agree with the wording in revision 5 of the Standard Technical Specifications as modified and discussed below and on the following pages. Table 3.8-2 should be revised to include only the valves with thermal overloads which are bypassed for all accidents for which the valves are required to operate. For the valves in Table 3.8-2 the wording in revision 5 of the Standard Technical Specifications for thermal overload devices bypassed under accident conditions should be incorporated into technical specification 3/4.8.4.2. Table 3.8-3 should be added to indicate which motor operatored valves have thermal overloads which are not bypasses, but the bypasses are actuated from a unit 2 relay. Therefore, the bypass will not function for unit 1 accidents. For the valves in Table 3.8-3 the wording in revision 5 of the Standard Technical Specifications for thermal overload devices not bypassed under accident conditions should be incorporated into technical specification 3/4.8.4.2.

FINAL DRAFT

MOTOR-OPERATED VALVES THERMAL OVERLOAD BYPASS DEVICES

LIMITING CONDITION FOR OPERATION

3.8.4.2 The thermal overload bypass devices, integral with the motor starter of each valve listed in Table 3.8-2 and Table 3.8-3 shall be OPERABLE.

APPLICABILITY: Whenever the motor-operated valve is required to be OPERABLE.

ACTION:

~~With one or more of the thermal overload bypass devices inoperable, declare the affected valve(s) inoperable and apply the appropriate ACTION statement(s) for the affected valve(s).~~

SURVEILLANCE REQUIREMENTS

4.8.4.2 The above required thermal overload bypass devices shall be demonstrated OPERABLE ~~at least once per 18 months~~:

a. At least once per 92 days for the motor operated valves in Table 3.8-2 By the performance of a TRIP ACTUATING DEVICE OPERATIONAL TEST of the bypass circuitry for ~~these~~ the thermal overload devices which are normally in force during plant operation and bypassed under accident conditions, ~~and~~ and following maintenance on the motor starter.

~~b. At least once per 18 months for the motor operated valves in Table 3.8-3 By the performance of a CHANNEL CALIBRATION of a representative sample of at least 25% of all thermal overload devices which are normally in force and bypassed under accident conditions such that each thermal overload is calibrated and each valve is cycled through at least one complete cycle of full travel with the motor operator when the thermal overload is OPERABLE and not bypassed, at least once per 6 years.~~

b. At least once per 18 months and following maintenance on the motor starter for the motor operated valves in Table 3.8-3 by the performance of a CHANNEL CALIBRATION of a representative sample of at least 25% of the thermal overload devices for the valves in Table 3.8-3.

a. With the thermal overload protection for one or more of the Table 3.8-2 valves not bypassed under conditions for which it is designed to be bypassed, restore the inoperable device or provide a means to bypass the thermal overload within 8 hours, or declare the affected valve(s) inoperable and apply the appropriate ACTION Statement(s) of the affected system(s).

b. With the thermal overload protection for one or more of the Table 3.8-3 valves inoperable, bypass the inoperable thermal overload within 8 hours; restore the inoperable thermal overload to OPERABLE status within 30 days or declare the affected valve(s) inoperable and apply the appropriate ACTION Statement(s) for the affected system(s).

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TABLE 3.8-2

MOTOR-OPERATED VALVES THERMAL OVERLOAD BYPASS DEVICES WHICH ARE BYPASSED UNDER ACCIDENT CONDITIONS

VALVE NO.	FUNCTION	BYPASS DEVICE
1-FCV-62-63	Isolation for Seal Water Filter	Yes
1-FCV-62-138	Safe Shutdown Redundancy (CVCS)	Yes
1-FCV-62-98	ECCS Operation	Yes
1-FCV-62-99	ECCS Operation	Yes
1-FCV-62-90	ECCS Operation	Yes
1-FCV-62-91	ECCS Operation	Yes
1-FCV-62-61	Cont. Isolation	Yes
1-LCV-62-132	ECCS Operation	Yes
1-LCV-62-133	ECCS Operation	Yes
1-LCV-62-135	ECCS Operation	Yes
1-LCV-62-136	ECCS Operation	Yes
1-FCV-74-1	Open for Normal Plant Cooldown	Yes
1-FCV-74-2	Open for Normal Plant Cooldown	Yes
1-FCV-74-3	ECCS Operation	Yes
1-FCV-74-21	ECCS Operation	Yes
1-FCV-74-12	RHR Pump, Mini-flow Protects Pump	Yes
1-FCV-74-24	RHR Pump, Mini-flow Protects Pumps	Yes
1-FCV-74-33	ECCS Operation	Yes
1-FCV-74-35	ECCS Operation	Yes
1-FCV-63-7	ECCS Operation	Yes
1-FCV-63-6	ECCS Operation	Yes
1-FCV-63-156	ECCS Flow Path	Yes
1-FCV-63-157	ECCS Flow Path	Yes
1-FCV-63-39	BIT Injection	Yes
1-FCV-63-40	BIT Injection	Yes
1-FCV-63-25	BIT Injection	Yes
1-FCV-63-26	BIT Injection	Yes
1-FCV-63-118	RCS Pressure Boundary	Yes
1-FCV-63-98	RCS Pressure Boundary	Yes
1-FCV-63-80	RCS Pressure Boundary	Yes
1-FCV-63-67	RCS Pressure Boundary	Yes
1-FCV-63-1	ECCS Operation	Yes
1-FCV-63-72	ECCS Flow Path from Cont. Sump	Yes
1-FCV-63-73	ECCS Flow Path from Cont. Sump	Yes
1-FCV-63-8	ECCS Flow Path	Yes
1-FCV-63-11	ECCS Flow Path	Yes
1-FCV-63-93	ECCS Cooldown Flow Path	Yes
1-FCV-63-94	ECCS Cooldown Flow Path	Yes
1-FCV-63-172	ECCS Flow Path	Yes
1-FCV-63-5	ECCS Flow Path	Yes
1-FCV-63-47	Train Isolation	Yes
1-FCV-63-48	Train Isolation	Yes
1-FCV-63-4	SI Pump Mini-flow	Yes
1-FCV-63-175	SI Pump Mini-flow	Yes

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TABLE 3.8-2 (Continued)

MOTOR OPERATED VALVES THERMAL OVERLOAD BYPASS DEVICES WHICH ARE BYPASSED UNDER ACCIDENT CONDITIONS

VALVE NO.	FUNCTION	BYPASS DEVICE
1-FCV-63-177	SIS Pump Inlet to CVCS	Yes
1-FCV-63-3	SI Pump Mini-Flow	Yes
1-FCV-63-152	ECCS Recirc	Yes
1-FCV-63-153	ECCS Recirc	Yes
1-FCV-63-22	ECCS Recirc	Yes
1-FCV-3-33	Quick Closing Isolation	Yes
1-FCV-3-47	Quick Closing Isolation	Yes
1-FCV-3-87	Quick Closing Isolation	Yes
1-FCV-3-100	Quick Closing Isolation	Yes
1-FCV-1-15	Stm Supply to Aux FWP turbine	Yes
1-FCV-1-16	Stm Supply to Aux FWP turbine	Yes
1-FCV-3-179A	ERCW Sys Supply to Pump	Yes
1-FCV-3-179B	ERCW Sys Sypply to Pump	Yes
1-FCV-3-136A	ERCW Sys Supply to Pump	Yes
1-FCV-3-136B	ERCW Sys Supply to Pump	Yes
1-FCV-3-116A	ERCW Sys Supply to Pump	Yes
1-FCV-3-116B	ERCW Sys Supply to Pump	Yes
1-FCV-3-126A	ERCW Sys Supply to Pump	Yes
1-FCV-3-126B	ERCW Sys Supply to Pump	Yes
1-FCV-70-133	Isolation for RCP Oil Coolers & Therm B	Yes
1-FCV-70-139	Isolation for RCP Oil Coolers & Therm B	Yes
1-FCV-70-4	Isolation for Non-Essential Loads	Yes
1-FCV-70-143	Isolation for Excess Letdown Ht Xchngr	Yes
1-FCV-70-92	Isolation for RCP Oil Coolers & Therm B	Yes
1-FCV-70-90	Isolation for RCP OIT Coolers & Therm B	Yes
1-FCV-70-87	Isolation for RCP Oil Coolers & Therm B	Yes
1-FCV-70-89	Isolation for RCP Oil Coolers & Therm B	Yes
1-FCV-70-140	Isolation for RCP Oil Coolers & Therm B	Yes
1-FCV-70-134	Isolation for RCP Oil Coolers & Therm B	Yes
1-FCV-67-67	DG Ht Ex	Yes
~~2-FCV-67-66~~	~~DG Ht Ex~~	~~Yes~~
1-FCV-67-66	DG Ht Ex	Yes
~~2-FCV-67-67~~	~~DG Ht Ex~~	~~Yes~~
1-FCV-67-123	CS Ht Ex Supply	Yes
1-FCV-67-125	CS Ht Ex Supply	Yes
1-FCV-67-124	CS Ht Ex Discharge	Yes
1-FCV-67-126	CS Ht Ex Discharge	Yes
0-FCV-67-151	CCWS Ht Ex Throttling	Yes
~~0-FCV-67-152~~	~~CCWS Ht Ex Throttling~~	~~Yes~~
1-FCV-67-146	CCWS Ht Ex Throttling	Yes
1-FCV-67-223	Isolation of 1B/2A HDR's	Yes
1-FCV-67-83	Cont. Isol. Lower	Yes
1-FCV-67-88	Cont. Isol. Lower	Yes
1-FCV-67-87	Cont. Isol. Lower	Yes
1-FCV-1-51	AFPT Trip and Throttle Valve	Yes
1-FCV-67-68	DG Ht Ex	Yes
1-FCV-67-65	DG Ht Ex	Yes
~~2-FCV-67-65~~	~~DG Ht Ex~~	~~Yes~~
~~2-FCV-67-68~~	~~DG Ht Ex~~	~~Yes~~

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TABLE 3.8-2 (Continued)

MOTOR OPERATED VALVES THERMAL OVERLOAD

BYPASS DEVICES WHICH ARE BYPASSED UNDER ACCIDENT CONDITIONS

VALVE NO.	FUNCTION	BYPASS DEVICE
1-FCV-67-95	Cont. Isol. Lower	Yes
1-FCV-67-96	Cont. Isol. Lower	Yes
1-FCV-67-91	Cont. Isol. Lower	Yes
1-FCV-67-103	Cont. Isol. Lower	Yes
1-FCV-67-104	Cont. Isol. Lower	Yes
1-FCV-67-99	Cont. Isol. Lower	Yes
1-FCV-67-111	Cont. Isol. Lower	Yes
1-FCV-67-112	Cont. Isol. Lower	Yes
1-FCV-67-107	Cont. Isol. Lower	Yes
1-FCV-67-130	Cont. Isol. Upper	Yes
1-FCV-67-131	Cont. Isol. Upper	Yes
1-FCV-67-295	Cont. Isol. Upper	Yes
1-FCV-67-134	Cont. Isol. Upper	Yes
1-FCV-67-296	Cont. Isol. Upper	Yes
1-FCV-67-133	Cont. Isol. Upper	Yes
1-FCV-67-139	Cont. Isol. Upper	Yes
1-FCV-67-297	Cont. Isol. Upper	Yes
1-FCV-67-138	Cont. Isol. Upper	Yes
1-FCV-67-142	Cont. Isol. Upper	Yes
1-FCV-67-298	Cont. Isol. Upper	Yes
1-FCV-67-141	Cont. Isol. Upper	Yes
1-FCV-72-21	Cont. Spray Pump Suction	Yes
1-FCV-72-22	Cont. Spray Pump Suction	Yes
1-FCV-72-2	Cont. Spray Isol.	Yes
1-FCV-72-39	Cont. Spray Isol.	Yes
1-FCV-72-40	RHR Cont. Spray Isol.	Yes
1-FCV-72-41	RHR Cont. Spray Isol.	Yes
1-FCV-72-44	Cont. Sump to Hdr A - Cont. Spray	Yes
1-FCV-72-45	Cont. Sump to Hdr B - Cont. Spray	Yes
1-FCV-26-240	Cont. Isol.	Yes
1-FCV-26-241	Annulus Isol.	Yes
1-FCV-26-242	Annulus Isol.	Yes
1-FCV-26-243	RCP Cont. Spray Isol.	Yes
1-FCV-26-244	Annulus Isol.	Yes
1-FCV-26-245	Annulus Isol.	Yes
1-FCV-68-332	RCS PRZR Rel.	Yes
1-FCV-68-333	RCS PRZR Rel.	Yes
1-FCV-70-153	RHR Ht Ex B-B Outlet	Yes
1-FCV-70-156	RHR Ht Ex A-A Outlet	Yes
1-FCV-70-207	Cont. Demin. Waste Evap. Bldg. Supply	Yes

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SHEET ____ OF ____

COMPUTED ____ DATE ____

CHECKED ____ DATE ____

TABLE 3.8-3

MOTOR OPERATED VALVES THERMAL OVERLOAD BYPASS DEVICES WHICH ARE NOT BYPASSED UNDER ACCIDENT CONDITIONS

VALVE NO.	FUNCTION	BYPASS DEVICE
2-FCV-67-66	DG Ht Ex	YES
2-FCV-67-67	DG Ht Ex	YES
0-FCV-67-152	CCWS Ht Ex Throttling	YES
2-FCV-67-65	DG Ht Ex	YES
2-FCV-67-68	DG Ht Ex	YES