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ACCESSION NBR:8412180199 DOC.DATE: 84/12/13 NOTARIZED: YES DOCKET #
 FACIL:50-438 Bellefonte Nuclear Plant, Unit 1, Tennessee Valley Au 05000438
 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439
 AUTH.NAME AUTHOR AFFILIATION
 DOMER,J.A. Tennessee Valley Authority
 RECIP.NAME RECIPIENT AFFILIATION
 ADENSAM,E. Licensing Branch 4

SUBJECT: Forwards B&W 841015 rept, "Best Estimate, Steam Generator
 Tube Rupture Analysis," per util 830916 commitment re TMI
 Action Item II,K.3.5.Rept utilizes B&W Version 5.0A of
 REDBL5 computer code.

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 TITLE: Licensing Submittal: PSAR/FSAR Amdts & Related Correspondence

NOTES:

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| INTERNAL: ACRS 41 | 6 6 | ADM/LFMB | 1 0 |
| ELD/HDS2 | 1 0 | IE FILE | 1 1 |
| IE/DEPER/EPB 36 | 1 1 | IE/DEPER/IRB 35 | 1 1 |
| IE/DQASIP/QAB21 | 1 1 | NRR ROE,M.L | 1 1 |
| NRR/DE/AEAB | 1 0 | NRR/DE/CEB 11 | 1 1 |
| NRR/DE/EHEB | 1 1 | NRR/DE/EQB 13 | 2 2 |
| NRR/DE/GB 28 | 2 2 | NRR/DE/MEB 18 | 1 1 |
| NRR/DE/MTEB 17 | 1 1 | NRR/DE/SAB 24 | 1 1 |
| NRR/DE/SCEB 25 | 1 1 | NRR/DHFS/HFEB40 | 1 1 |
| NRR/DHFS/LQB 32 | 1 1 | NRR/DHFS/PSRB | 1 1 |
| NRR/DL/SSP8 | 1 0 | NRR/DSI/AEB 26 | 1 1 |
| NRR/DSI/ASB | 1 1 | NRR/DSI/CPB 10 | 1 1 |
| NRR/DSI/CSB 09 | 1 1 | NRR/DSI/ICSB 16 | 1 1 |
| NRR/DSI/METB 12 | 1 1 | NRR/DSI/PSB 19 | 1 1 |
| NRR/DSI/RAB 22 | 1 1 | NRR/DSI/RSB 23 | 1 1 |
| <u>REG FILE</u> 04 | 1 1 | RGN2 | 3 3 |
| RM/DDAMI/MIB | 1 0 | | |

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| EXTERNAL: BNL (AMDTs ONLY) | 1 1 | DMB/DSS (AMDTs) | 1 1 |
| FEMA-REP DIV 39 | 1 1 | LPDR 03 | 1 1 |
| NRC PDR 02 | 1 1 | NSIC 05 | 1 1 |
| NTIS | 1 1 | PNL GRUEL,R | 1 1 |

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

1630 Chestnut Street Tower II

December 13, 1984

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. 50-438
Tennessee Valley Authority) 50-439

Please refer to TVA's September 16, 1983 response to D. G. Eisenhower's letter of February 8, 1983 concerning the resolution of TMI Action Item II.K.3.5, "Automatic Trip of Reactor Coolant Pumps - Steam Generator Tube Rupture Analysis." In that response, TVA indicated that a tube rupture analysis for Bellefonte using the RELAP 5 computer code would be performed in support of the hypothesis that the reactor coolant pump trip would not be initiated for a double-ended tube rupture. Enclosed is a copy of the subject analysis performed by Babcock and Wilcox (B&W) using version 5.0A of the REDBL5 code which is B&W's version of RELAP 5.

This analysis uses best estimate assumptions for a single double-ended steam generator tube rupture to demonstrate that loss of subcooled margin is precluded if the operator follows abnormal transient operating guidelines (ATOG) procedures for this event. The reactor coolant pumps will also remain operable during this transient where pump operation is preferred.

If you have any questions concerning this matter, please get in touch with K. Mali at FTS 858-2680.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. A. Domer
J. A. Domer
Nuclear Engineer

8412180199 841213
PDR ADDCK 05000438
A PDR

Sworn to and subscribed before me
this 13th day of Dec. 1984

Bryant M. Lowery
Notary Public
My Commission Expires 4/8/86

Enclosure

cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Mr. James P. O'Reilly Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

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