



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

March 27, 1992

Docket Nos. 50-390
and 50-391

LICENSEE: Tennessee Valley Authority (TVA)
FACILITY: Watts Bar Nuclear Plant, Units 1 and 2
SUBJECT: MEETING SUMMARY - MARCH 24, 1992, ROUTINE
CONFERENCE ON LICENSING STATUS (TAC M72494 and M72495)

On March 24, 1992, NRC and TVA representatives met at the Watts Bar site to discuss the status, needed actions, priorities and schedules of various licensing issues. These include all unresolved outstanding issues, confirmatory issues, proposed license conditions, corrective action programs (CAPs), special programs (SPs), TVA's response to generic letters and bulletins, and upcoming NRR-led team inspections. The discussion was based on the latest licensing status as published in the Watts Bar Safety Evaluation Report Supplement 8 (NUREG-0847, Supp. 8). Enclosure 1 is the list of meeting participants.

Schedular information was exchanged between TVA and NRR personnel, agreed upon, and subsequently used to update the NRR staff's work control system, Workload Information and Scheduling Program (WISP, Enclosure 2).

The staff explained that the Office of Nuclear Reactor Regulation (NRR) issues the Safety Evaluation Report (NUREG-0847) and supplements (SSERs) as its principal licensing basis documents for Watts Bar. Section 1 of the latest SSER (SSER 8) officially documents the licensing issues that need resolution before an operating license can be granted.

TVA participants described the status of TVA's highest priority licensing issues. These are flagged by appropriate indicators in Enclosure 2. The staff noted that it has the same understanding of the status and needed actions regarding these issues.

Memof

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The staff provided a handout on use of Westinghouse Eagle-21 electronics (Enclosure 3), listing the issues to be discussed in an upcoming teleconference or meeting.

Original signed by

Peter S. Tam, Senior Project Manager
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Division of Reactor Projects - I/II
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Enclosures:

1. Participant list
2. WISP report
3. Review comments on Eagle-21

cc w/enclosures:
See next page

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NAME	MSanders <i>ms</i>	PTam: as <i>PT</i> dw	FHebdon <i>FH</i>	
DATE	3/26/92	3/26/92	3/27/92	

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ENCLOSURE 1

LIST OF PARTICIPANTS

ROUTINE LICENSING STATUS MEETING

March 24, 1992

<u>Name</u>	<u>Affiliation</u>
Ken Barr	NRC/Region II Project Branch 4
Fred Hebdon	NRC/NRR/Project Directorate II-4
Gary Humphrey	NRC Resident Inspector at Watts Bar
Becky Mays	TVA Watts Bar Site Licensing
Paul Pace	TVA Watts Bar Site Licensing
George Pannell	TVA Watts Bar Site Licensing
Peter Tam	NRC/NRR/Project Directorate II-4
Steve Varga (part-time)	NRC/NRR/Division of Reactor Projects I/II
John Vorees	TVA Watts Bar Site Licensing
Mark Wetterhahn	Winstron and Strawn, attorney for TVA

TaskID	MPA Num	Age (Mon)	Rev Mth	Pri	Actyp	Title	Appl Date	RAI Issued	RAI Response	Licensing Action Complete	Licensee Impl.	Comments
***** Active Actions *****												
M63590		[34]	TS	2	RN	WATTS BAR 1 - CORRECTIVE ACTION PROGRAM: Q - LIST.	(05/22/89)	(08/16/90)	(11/07/90C)	(12/31/92T)	(10/31/92T)	3/92 submittal to modify scope. (Top 3)
M63591		[11]	TS	2	RN	WATTS BAR 1 - SPECIAL PROGRAM: EQUIPMENT QUALIFICATION OPEN ISSUE 4	(04/30/91)	(--/--/--)	(04/30/91C)	(03/31/93T)	(03/31/93T)	Had meeting 3/5/92. Need MEQ submittal for M76974.
M63594		[34]	TS	2	RN	WATTS BAR 1 - CORRECTIVE ACTION PROGRAM: DESIGN VERIFICATION AND LICENSING BASELINE PROGRAM	(05/22/89)	(03/22/91)	(11/08/91C)	(04/30/93T)	(04/30/93T)	Staff evaluating doing 2 IDI inspections (Top 5 and 6).
M63595		[34]	TS	2	RN	WATTS BAR 1 - SPECIAL PROGRAM: MODERATE ENERGY LINE BREAK FLOODING (SECTION 3.6.1)	(05/22/89)	(--/--/--)	(06/26/90C)	(12/31/93T)	(10/31/92T)	TVA: Submit draft Sec. 3.6.1 by mid 92, per 2/26/92 telecon.
M63597		[41]	TS	3	RN	WATTS BAR 1 - CONTAINMENT ISOLATION REVIEW	(10/20/88)	(03/15/89)	(05/12/89C)	(12/31/92T)	(12/31/92T)	8/92 tentative date for Kudrick site visit.
M63627		[86]	TS	2	LN	WATTS BAR 1 - PRESERVICE INSPECTION PROGRAM, OPEN ISSUE 5	(01/30/85)	(10/09/90)	(11/04/91C)	(08/31/92T)	(--/--/--)	Revised submittal of 11/4/91 under review. Target mid 92.
M63632		[22]	TS	2	RN	WATTS BAR 1 - MSLB OUTSIDECONTAINMENT (SECT 3.11.3.3)"	(05/04/90)	(06/04/90)	(11/30/92T)	(12/30/92T)	(--/--/--)	TVA: submittal by 11/92.
M63647		[19]	TS	3	RN	WATTS BAR 1 - HEALTH PHYSICS PROGRAM (SECT 12.6)"	(08/15/90)	(10/19/90)	(01/03/91C)	(08/30/92T)	(--/--/--)	N. Horning said site visit in 3/92 possible, 7/92 better.
M63648		[1]	TS	2	RN	WATTS BAR 1 - CORRECTIVE ACTION PROGRAM: FIRE PROTECTION, OPEN ISSUE 12, CONF. ISSUE 38, LIC. COND 20	(02/05/92)	(--/--/--)	(--/--/--)	(05/31/93T)	(02/28/93T)	Submittal under review. TVA to consider Sequoyah 10/4/91 ltr
M63649		[85]	TS	2	RN	WATTS BAR 1 - POWER SYSTEM CONCERNS, CONF. 28-35, LIC. COND. 13,17	(02/06/85)	(06/20/91)	(09/13/91C)	(07/31/92T)	(--/--/--)	RAI response under review. Telecon of 3/17 and 18.
M63650		[34]	TS	2	RN	WATTS BAR 1 - SPECIAL PROGRAM: MICROBIOLOGICALLY INDUCED CORROSION	(05/22/89)	(--/--/--)	(02/26/91C)	(06/30/92T)	(09/30/92T)	SE published in SSER 8 needs to be revised by J. Davis.
M63656		[0]	TS	3	RN	WATTS BAR 1 - EMERGENCY PLANNING LIC. COND. 27	(--/--/--)	(--/--/--)	(--/--/--)	(06/30/93T)	(11/30/92T)	TVA submittal app. 7/92. (NRC only needs 12 mo. before OL)
M63657		[20]	TS	2	RN	WATTS BAR 1 - PHYSICAL SECURITY PLAN (SECT 13.6)"	(07/24/90)	(--/--/--)	(11/05/90C)	(09/30/93T)	(12/31/92T)	Submittal by 4/92. Does it address PLC 38? (Top 8)
M68624	A022	[0]	TS	2	LL	WATTS BAR 1 - IMPLEMENTATION OF THE STATION BLACKOUT RULE, 10CFR50.63"	(--/--/--)	(--/--/--)	(--/--/--)	(12/31/92T)	(--/--/--)	Telecon of 9/19. Submittal June '92, using coping approach.
M68848	X805	[7]	TS	3	RN	WATTS BAR 1 - NONCONFORMING PIPING MATERIALS (BULLETIN 88-05)"	(08/01/91)	(08/21/91)	(01/14/92C)	(06/30/92T)	(--/--/--)	Additional info. on chemistry by 4/92.
M71917		[34]	TS	2	RN	WATTS BAR 1 - CORRECTIVE ACTION PROGRAM (CAP) FOR CABLE ISSUES"	(05/22/89)	(--/--/--)	(11/21/91C)	(06/30/92T)	(12/31/93T)	SE on Brand Rex cable in audit report by 4/30/92. (Top 4)
M71922		[34]	TS	2	RN	WATTS BAR 1 CORRECTIVE ACTION PROGRAM (CAP) FOR REPLACEMENT ITEM (PIECE PARTS)"	(05/22/89)	(03/09/89)	(02/03/92C)	(06/30/92T)	(09/30/92T)	Letter to acknowledge Rev. 4 on hold due to IR 92-03.
M71923		[34]	TS	2	RN	WATTS BAR 1 CORRECTIVE ACTION PROGRAM (CAP) FOR QA RECORDS"	(05/22/89)	(08/30/91)	(02/14/92C)	(06/30/92T)	(01/31/93T)	NRC to issue position on statistical methods (top 1).
M72106		[34]	TS	2	RN	WATTS BAR 1 - CORRECTIVE ACTION PROGRAM (CAP) FOR WELDING ISSUES"	(05/22/89)	(--/--/--)	(07/31/90C)	(06/30/92T)	(08/31/92T)	Response to 8/12/88 SE on Welding Project by Spring '92.
M72181	X811	[0]	TS	2	RN	WATTS BAR 1 - BULLETIN 88-11 PRESSURIZER SURGELINE THERMAL STRATIFICATION"	(--/--/--)	(--/--/--)	(--/--/--)	(10/31/92T)	(--/--/--)	TVA to address Item 2.a by 3/92.
M72693	X809	[0]	TS	2	RN	WATTS BAR 1 - THIMBLE THINNING IN PWR'S (BULLETIN 88-09)"	(--/--/--)	(--/--/--)	(--/--/--)	(12/31/93T)	(--/--/--)	No need for submittal until after plant start.
M74488	B111	[0]	TS	3	RN	WATTS BAR 1 - INDIVIDUAL PLANT EVALUATIONS (GL 88-20)"	(--/--/--)	(--/--/--)	(09/30/92T)	(06/30/93T)	(--/--/--)	IPE submittal 9/92; IPEEE submittal by 6/94.

Enclosure 2

Page	2		Report Date	03/26/92		Condensed Project Manager Report						
TaskID	MPA Num	Age (Mon)	Rev Mth	Pri	Actyp	Title	Appl Date	RAI Issued	RAI Response	Licensing Action Complete	Licensee Impl.	Comments
M74801	A025	[0]	TS	3	RN	"WATTS BAR 1 - ACCEPTABLE IST	(.../.../...)	(.../.../...)	(.../.../...)	(09/30/93T)	(.../.../...)	IST submittal 6 months before fuel load.
M76631	X001	[2]	PM	3	RN	"WATTS BAR 1 - RESPONSE TO NRCB 90-01 LOSS OF FILL-OIL IN ROSEMOUNT TRANSMITTER"	(01/31/92)	(.../.../...)	(.../.../...)	(06/30/92T)	(.../.../...)	1/31/92 submittal under review. Supplement GL being issued.
M76742		[27]	TS	2	RN	WATTS BAR 1 - TECHNICAL SPECIFICATION REVIEW	(12/29/89)	(.../.../...)	(.../.../...)	(12/31/93T)	(.../.../...)	Relocated TS (Tech. Requ. Manual) to come, 8/92.
M76881		[0]	TS	3	LN	WATTS BAR 1 - INSERVICE INSPECTION (LICENSE CONDITION 4)	(.../.../...)	(.../.../...)	(.../.../...)	(09/30/93T)	(.../.../...)	Submittal 6 months before fuel load.
M76972		[27]	TS	2	RN	WATTS BAR UNIT 1 - QUALITY ASSURANCE PROGRAM (SER SECTION 17.0)	(12/07/89)	(.../.../...)	(.../.../...)	(12/30/92T)	(.../.../...)	Response to SSER 5 by Amendment 71.
M76973		[34]	TS	2	RN	WATTS BAR UNIT 1 - SPECIAL PROGRAM : MASTER FUSE LIST	(05/22/89)	(11/27/91)	(01/31/92C)	(05/31/92T)	(06/30/92T)	Clean SE expected (top 9).
M76974		[11]	TS	2	RN	WATTS BAR UNIT 1 - SPECIAL PROGRAM : MECHANICAL EQUIPMENT QUALIFICATION	(04/30/91)	(.../.../...)	(.../.../...)	(12/31/92T)	(12/31/92T)	(same as TAC 63591). Need MEQ submittal.
M77020	B081	[100]	TS	3	RN	WATTS BAR 1 - GL 83-28, ITEM 4.2.1 AND 4.2.2 PREVENTIVE MAINTENANCE PROGRAM FOR TRIP BREAKERS	(11/07/83)	(.../.../...)	(07/11/91C)	(04/30/92T)	(12/31/93T)	No review until Supp. GL is issued.
M77086	B089	[73]	TS	3	RN	WATTS BAR 1 - GL 83-28, ITEM 4.2.3 AND 4.2.4, RTB LIFE TESTING AND PERIODIC REPLACEMENT	(02/10/86)	(.../.../...)	(.../.../...)	(03/31/92T)	(.../.../...)	No review until Supp. GL is issued.
M77132		[78]	TS	2	RN	WATTS BAR 1 - TMI II.F.2, ON INADEQUATE CORE COOLING INSTRUMENTATION, LIC. COND. 3	(09/19/85)	(08/16/90)	(01/24/92C)	(06/30/92T)	(09/30/92T)	Revised submittal and Amend. 69 under review, app. by 6/92.
M77222		[20]	TS	2	RN	WATTS BAR UNIT 1 - SEVERE ACCIDENT MITIGATION DESIGN ALTERNATIVES (SAMDA) IN THE FES	(07/30/90)	(01/29/91)	(07/31/92T)	(12/31/92T)	(.../.../...)	Awaiting TVA response to 1/29/91, at site by late 92.
M77543		[86]	TS	2	RN	WATTS BAR 1 - PROCEDURE TO ESTIMATE CORE DAMAGE, (SECTION 9.3.2)	(01/31/85)	(.../.../...)	(06/30/92T)	(12/31/92T)	(.../.../...)	SSER 5. TVA submittal by 7/92.
M77548		[27]	TS	2	RN	WATTS BAR 1 - SPECIAL PROGRAM ON SOIL LIQUEFACTION	(12/31/89)	(07/09/91)	(08/22/91C)	(05/31/92T)	(06/30/92T)	TVA: address ERCW barrier analysis, per 3/19/92 letter.
M77550	A017	[21]	TS	2	RN	WATTS BAR 1 - CONFORMANCE WITH RG 1.97, INSTRUMENTATION TO FOLLOW COURSE OF ACCIDENT	(06/08/90)	(08/26/91)	(10/29/91C)	(06/30/92T)	(.../.../...)	SE issued by letter 3/ /92, and in SSER 9.
M77553		[0]	TS	2	RN	WATTS BAR 1 - OFFSITE DOSE CALCULATION MANUAL (ODOM)	(.../.../...)	(.../.../...)	(.../.../...)	(12/30/92T)	(.../.../...)	Klementowicz is reviewer. Submittal by 8/92.
M77560		[90]	TS	3	RN	WATTS BAR 1 - HEAVY LOADS (LICENSE CONDITION 39)	(09/24/84)	(.../.../...)	(12/31/92T)	(03/31/93T)	(.../.../...)	TVA submittal by 12/92.
M77569		[84]	TS	2	RN	WATTS BAR 1 - STEAM GENERATOR TUBE RUPTURE ANALYSIS PER WCAP - 11698	(03/31/85)	(.../.../...)	(.../.../...)	(12/31/92T)	(.../.../...)	See SSER 5, 15.6.3. TVA submittal by 4/93.
M77861		[21]	TS	2	RN	WATTS BAR 1 - PLANT OPERATING, MAINTENANCE AND EMERGENCY PROCEDURES (SECTION 13.5.2)	(06/26/90)	(.../.../...)	(.../.../...)	(09/30/93T)	(09/30/93T)	PGP submittal when? Address PLC 28, 29?
M77896	A021	[21]	TS	2	LL	WATTS BAR 1 PRESSURIZED THERMAL SHOCK, 10 CFR 50.61	(06/26/90)	(.../.../...)	(.../.../...)	(07/31/92T)	(.../.../...)	TVA recalculating fluence per draft RG. Submittal by 10/92.
M79317		[8]	TS	2	RN	WATTS BAR 1 - NATURAL CIRCULATION COOLDOWN - BTP RSB5-1, REV2 (GL 81-21)	(07/11/91)	(.../.../...)	(.../.../...)	(06/30/92T)	(.../.../...)	Under review, target 6/92.
M79692		[14]	TS	2	RN	WATTS BAR 1 - PIPE BREAK SPECTRA USED AS RESULT OF LLB APPROVAL	(01/29/91)	(.../.../...)	(09/20/91C)	(03/31/92T)	(.../.../...)	9/20/91 additional info. under review.

TaskID	MPA Num	Age (Mon)	Rev Mth	Pri	Actyp	Title	Appl Date	RAI Issued	RAI Response	Licensing Action Complete	Licensee Impl.	Comments
M79717		[14]	PM	2	RN	WATTS BAR 1 - SEISMIC DESIGN CONCERNS	(01/04/91)	(08/22/91)	(11/27/91C)	(05/31/92T)	(--/--/--)	Response to ductility position by 3/92.
M79718		[11]	TS	2	RN	WATTS BAR 1 - MECHANICAL SYSTEMS CONCERNS ORIGINATING FROM FSAR AMEND. 64, OPEN ISSUE 20	(04/18/91)	(01/04/91)	(07/31/91C)	(01/31/93T)	(--/--/--)	FW check valve mods. to be done by 1/93. Submittal when?
M79992		[12]	TS	2	RN	WATTS BAR 1 - SAFETY AND RELIEF VALVE TESTING (TMI I.I.D.1)	(03/21/91)	(10/10/91)	(07/11/91C)	(09/30/92T)	(03/31/92T)	Response to 10/10/91 RAI by 6/92. G. Hammer OK'd date.
M80143		[11]	TS	2	RN	WATTS BAR 1 - FSAR AMENDMENT NO. 65 REVIEW	(04/10/91)	(07/11/91)	(09/13/91C)	(03/31/92T)	(--/--/--)	Response to RAIs on Sec. 4.2 and 8 under review.
M80152		[17]	TS	3	RN	WATTS BAR 1 - CONTAINMENT EFFECTS DUE TO REMOVAL OF BORON INJECTION TANK	(10/18/90)	(--/--/--)	(01/21/92C)	(06/30/92T)	(--/--/--)	Started by TVA 5/2/84 letter. Amend. 69 info. under review.
M80451		[10]	TS	2	RN	WATTS BAR 1 - FSAR AMENDMENT 66 REVIEW	(05/20/91)	(--/--/--)	(--/--/--)	(03/31/92T)	(--/--/--)	Review groups all done except SRXB (Chap. 15).
M81063		[1]	TS	2	RN	WATTS BAR 1 - USE OF EAGLE 21 PROCESS PROTECTION SYSTEM	(02/26/92)	(--/--/--)	(--/--/--)	(08/31/92T)	(--/--/--)	Telecon of 3/27/92 with Scholl and Li.
M81221		[7]	TS	2	LN	WATTS BAR 1 - FSAR AMENDMENT 67 REVIEW	(08/01/91)	(--/--/--)	(--/--/--)	(03/31/92T)	(--/--/--)	Under review.
M81696		[6]	PM	2	RN	WATTS BAR 1 - NUCLEAR PERFORMANCE PLAN, VOL. 4, REV. 1	(09/06/91)	(--/--/--)	(--/--/--)	(03/30/92T)	(--/--/--)	NRR and R-II documenting review result. No problems.
M81887		[0]	TS	3	RN	WATTS BAR UNIT 1 - USE OF VANTAGE - 5H FUEL DESIGN	(10/10/92)	(--/--/--)	(--/--/--)	(12/31/92T)	(--/--/--)	Tech. info. by late 1992. Staff has no technical concern.
M81959		[5]	TS	2	LL	WATTS BAR 1 - ASME CODE CASE N-491	(10/23/91)	(--/--/--)	(--/--/--)	(03/31/92T)	(--/--/--)	Verbal OK given to Browns Ferry. SE to follow soon.
M82032		[6]	TS	2	RN	WATTS BAR 1 - FIFTH DIESEL GENERATOR NON-ELECTRICAL ISSUES	(09/24/91)	(--/--/--)	(--/--/--)	(03/31/92T)	(--/--/--)	Widmann working on 9/24/91 response. Previous M63606.
MR2065		[7]	TS	2	RO	WATTS BAR 1 - THIRD ANNUAL REPORT ON EMPLOYEE CONCERN SPECIAL PROGRAM	(08/27/91)	(--/--/--)	(--/--/--)	(05/31/92T)	(--/--/--)	T. Ross has lead on this joint TVA submittal.
MR2367		[5]	TS	2	RA	WATTS BAR 1 - SHALLOW UNDER ANCHORS	(10/16/91)	(--/--/--)	(--/--/--)	(04/30/92T)	(--/--/--)	Telecon of 3/ /92 with J. Ma and W. Massie.
MR2583	F012	[0]	TS	3	RR	WATTS BAR 1 - NUREG 0737, 11.B.3.2 POST ACCIDENT SAMPLING MODIFICATION	(--/--/--)	(--/--/--)	(--/--/--)	(12/31/92T)	(--/--/--)	(Awaiting NRR instruction on this TAC).
M82644		[2]	TS	2	RN	WATTS BAR 1 - FSAR AMENDMENT 69.	(01/21/92)	(--/--/--)	(--/--/--)	(10/31/92T)	(--/--/--NA)	Expect to have interim Chap. 14 results in near future.
M82878		[1]	TS	2	LL	WATTS BAR 1 - ALTERNATIVE TO ASME III, SUBSECTION NC/ND PARA7153	(02/25/92)	(--/--/--)	(--/--/--)	(07/30/92T)	(--/--/--)	T. Dean sending P&ID and other site documents.
R00508		[34]	TS	2	RN	"WATTS BAR UNIT 1: CORRECTIVE PROGRAM (CAP) PLAN FOR CONDUIT SUPPORT INSTALLATION"	(05/22/89)	(01/04/91)	(08/22/91C)	(03/31/92T)	(08/31/92T)	Audit to close IR 89-14, 90-05 issues, 2/24/92.
R00510		[34]	TS	2	RN	"WATTS BAR UNIT 1: CORRECTIVE ACTION PROGRAM (CAP) PLAN FOR HAVACDUCT AND DUCT SUPPORTS"	(05/22/89)	(01/04/91)	(06/28/91C)	(03/31/92T)	(12/31/92T)	Audit to close IR 89-14, 90-05 issues, 2/24/92.
R00512		[34]	TS	2	RN	"WATTS BAR UNIT 1: CORRECTIVE ACTION PROGRAM (CAP) FOR HANGER AND ANALYSIS UPDATE PROGRAM (HAAUP)"	(05/22/89)	(01/04/91)	(07/31/90C)	(03/31/92T)	(10/31/92T)	Audit to close IR 89-14, 90-05 issues, 2/24/92.
R00514		[34]	TS	2	RN	"WATTS BAR UNIT 1: CORRECTIVE ACTION PROGRAM (CAP) PLAN FOR SEISMIC ANALYSIS" AND CIVIL CALC. PROGRAM	(05/22/89)	(01/04/91)	(06/06/91C)	(03/31/93T)	(01/31/93T)	SSER 9 will close CAP. Awaiting TVA response to 1/31/92 rpt.
R00516		[34]	TS	2	RN	WATTS BAR UNIT 1: CORRECTIVE ACTION PROGRAM (CAP) PLAN FOR CATEGORY 1 CABLE TRAY AND CABLE SUPPORTS	(05/22/89)	(01/04/91)	(06/28/91C)	(03/31/92T)	(11/30/93T)	Audit to close IR 89-14, 90-05 issues, 2/24/92.

NRR Staff Comments

ON THE USE OF EAGLE-21 AT WATTS BAR

1. (1.3) FSAR Section 7.1.1.4 states that "System functions
(7.1.1.4) for all plant systems discussed in Chapter 7 are similar to those of Sequoyah Nuclear Plant. Detailed comparison is provided in Section 1.3". However, the discussion in Section 1.3 is far from detailed. What discussion is provided appears to contradict the staff's understanding of your plans because Section 1.3 states that the Reactor Trip System and Engineered Safety Features Systems are "similar to D. C. Cook, Trojan and Sequoyah" and that there are no significant differences.

In order to avoid duplication of effort on the part of the TVA and NRC staffs, please amend the FSAR to identify all areas where your implementation of the Eagle-21 system at Watts Bar are different from Sequoyah. Your response should include, but not be limited to, answers to the following specific questions:

- A. Describe all differences in the functions to be performed by the Eagle-21 equipment at the two sites.
- B. Describe all differences in input instrumentation for the Eagle-21 and Median Signal Selector at the two sites including:
 - i. Parameter, instrument manufacturer, model number, range, accuracy and electrical characteristics, and
 - ii. number of channels.
- C. Describe all differences in the Configuration Layer of the Eagle-21 software at each site. Your response should cover the 10 items identified under "D" at the bottom of page 27 in WCAP-12374 Revision 1.
- D. Describe all differences in the Main Program and Support Routines between the two sites.

E. Describe any differences in the criteria for the installation of the Eagle-21 and Median Signal Selector at each site with regard to:

- i. Electrical power (including divisional assignments),
- ii. Physical separation,
- iii. Electrical isolation,
- iv. EMI/RFI protection,
- v. Heating, ventilation and air conditioning,
- vi. Physical security, and
- vii. Fire Protection.

F. Describe all differences in indication and alarms between the two sites with regard to the use of Eagle-21.

2. (7.2)
(7.3)

The discussions presented in FSAR Sections 7.2 and 7.3 do not reflect either the modifications approved by the Commission for the use of Eagle-21 in the replacement of the RTD bypass system or your subsequent plans for a far broader use of the Eagle-21. Please amend your application for an Operating License to comply with Title 10 Code of Federal Regulations Part 50.34(11)(b). (The key issue here is one of currency.) The format and content of the information requested is specified in Regulatory Guide 1.70.

March 26, 1992

Docket Nos. 50-390
and 50-391

MEMORANDUM FOR: Docket File

FROM: Peter S. Tam, Senior Project Manager
Project Directorate II-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

SUBJECT: WATTS BAR NUCLEAR - COMPLETION OF FSAR
AMENDMENT 54 THROUGH 63 REVIEW (TAC M77061)

The staff ceased its licensing activities on Watts Bar in 1985 due to various problems with TVA plants. In the subsequent five years, the staff's efforts concentrated on corrective actions. As a result, little FSAR review was done despite the fact that TVA continued submitting amendments (Amendments 54 through 62) to the FSAR. On June 26, 1990, TVA submitted Amendment 63 in conjunction with its renewed efforts to obtain an operating license for the plant. The staff's review efforts of Amendments 54 through 63 were covered by TAC M77061.

It should be pointed out that completion of review of any of the above amendments does not necessarily imply resolution of issues conveyed by it. Since licensing efforts ceased in the years 1985 through 1990, few FSAR technical issues were resolved by the staff. Hence, Amendments 54-63 were submitted presuming these issues were resolved. This practice posed a significant problem since the FSAR would contain information different from more recent TVA letters which provided updated information to resolve an issue. This problem was put to rest when TVA postponed submittal of FSAR changes on specific issues until those issues had been resolved; this new practice started with Amendment 65.

I have reviewed all the memoranda issued by the review branches and determined that the staff's review of Amendments 54 through 63 is now complete. Any actions requested by the review branches (issuance of RAI, issuance of SSER, etc.) have been addressed accordingly. The enclosed list shows the affected FSAR sections, the acronyms of the responsible branches, and the dates of the memoranda written by the responsible officials. Since all work on Amendment 54 through 63 is complete, TAC M77061 is closed as of this date.

Original signed by
Peter S. Tam, Senior Project Manager
Project Directorate II-4
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

OFC	PDII4/LA	PDII-4/PM	PDII-4/D	
NAME	MSanders <i>MS</i>	PTam:dw <i>PT</i>	FHebdon <i>FH</i>	
DATE	3/25/92	3/25/92	3/26/92	

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Review Status of FSAR Amendment 54 thru 63 (TAC 77061) (3/16/92)

<u>Section*</u>	<u>Branch</u>	<u>Status</u>
1.2.2 - 1.7	PDII-4	Done, Tam 3/5/92.
2.1	PDII-4	Done, Tam 3/5/92.
2.2	ESGB	Done, Bagchi 8/5/91.
2.3.1 - 2.3.5	PRPB	Done, Cunningham 10/5/90.
2.4	PDII-4	Done, Tam 3/5/92.
2.5	ESGB	RAI 7/5/91. Bagchi 9/9/91 and 3/13/92.
3.2	EMEB	Addressed as Amendment 64 review, TAC M77325: Norberg 12/31/90, Cheng 11/21/90.
3.5	SPLB	Done, McCracken 12/16/91.
3.6	EMEB	Addressed as Amendment 64 review, TAC M77325: Norberg 12/31/90.
3.7	EMEB	Addressed as Amendment 64 review, TAC M77325: Norberg 12/31/90, Bagchi 12/31/90.
3.8	ESGB	Addressed as Amendment 64 review, TAC M77325: Bagchi 1/2/91.
3.9 - 3.10	EMEB	Addressed as Amendment 64 review, TAC M77325: Norberg 12/31/90.
4.2 - 4.4	SRXB	Done, Jones 2/28, 3/20, 7/30 and 12/31/91.
5.2.2	SRXB	Done, Jones 2/28, 3/20, 7/30 and 12/31/91.
5.2.3 - 5.2.4	EMCB	Done, Cheng 12/3/90.
5.2.5	SPLB	Done, McCracken 12/16/91.
5.3	EMCB	Done, Cheng 12/3/90, 5/9/91.
5.4 (FSAR 5.5)	PDII-4	(Clarifications, corrections only)
5.6	SRXB	Done, Jones 2/28, 3/20, 7/30 and 12/31/91.

* FSAR sections not listed were not revised by Amendments 54 - 63.

6.1.6 - 6.1.2	EMCB	Done, Cheng 12/14/90.
6.2.1 - 6.2.6	SPLB	Done, McCracken 12/16/91.
6.3	SRXB	Done, Jones 2/28/91.
6.4	SPLB	Done, McCracken 12/16/91.
6.5	EMCB	Done, Cheng 12/14/90, McCracken 12/16/91.
6.6.4 - 6.6.5	EMCB	Done, Cheng 12/3/90.
7.1 - 7.7	SICB	Done, Newberry 5/24/91.
8.1 - 8.3	SELB	Done, Rosa 6/6/91; open issues tracked by TAC M63649, and M74502.
9.1 - 9.5	SPLB	Done, McCracken 12/16/91.
10.1 - 10.4	SPLB	Done, McCracken 12/16/91.
11.1 - 11.6	SPLB	Done, McCracken 12/16/91.
11.4	PRPB	Done, Cunningham 10/5/90.
12.1 - 12.6	PRPB	Done, Cunningham 10/5/90.
13.1	LPEB	Done, Roe 11/14/90; continue as TAC 63592.
13.2	LHFB	Done, Roe 11/14/90 and Wermiel 1/31/92.
13.3	PEPB	(Emergency preparedness is reviewed under TAC M63656. Section 13.3 merely references the EP plan.)
13.4	LPEB	Done, Roe 11/14/90; continued as TAC M63592.
13.5.1	LPEB	Done, Roe 11/14/90; continued as TAC M77861.
13.5.2	LHFB	Done, Roe 11/14/90; continued as TAC M77861.
13.7	RSGB	(Safeguards and security is reviewed under TAC M63657. The information in this section merely states WBN's compliance with regulations.)

14	LHFB	Done, Brach 12/20/91. (This chapter has been totally rewritten by Amend. 69, TAC M82644 and M82645.)
15.1.1 - 15.6	SRXB	Done, Jones 2/28, 3/20, 7/30 and 12/31/91.
	SPLB	Done, McCracken 12/16/91.
	PRPB	Done, Cunningham 10/5/90.
17.1 - 17.3	LPEB	Done, Roe 11/14/90. Remaining work tracked by TAC M63590, M76972.