



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

July 21, 1993

Docket Nos. 50-390
and 50-391

APPLICANT: Tennessee Valley Authority (TVA)
FACILITY: Watts Bar Nuclear Plant, Units 1 and 2
SUBJECT: MEETING SUMMARY - JULY 20, 1993 ROUTINE CONFERENCE ON
LICENSING STATUS (TAC M72494, M72495 AND M80152)
REFERENCE: Meeting notice by P. S. Tam, June 30, 1993

On July 20, 1993, NRC and TVA representatives met telephonically 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 inspections. The discussion was based on the latest licensing status as published in the Watts Bar Safety Evaluation Report Supplement 11 (NUREG-0847, Supp. 11). 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 11) officially documents the issues that NRR considers needing resolution before an operating license can be granted.

Enclosure 1 is the list of meeting participants.

Schedular information regarding NRR reviews and other comments were exchanged with TVA personnel, agreed upon, and subsequently used to update the NRR staff's work control system, Workload Information and Scheduling Program (WISP). The output of WISP (Enclosure 2) records the staff's understanding of the status of each active NRR action.

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During the meeting, the staff gave TVA personnel a document (Enclosure 3) delineating the staff's concern regarding one licensing action, TAC M80152. The document will form the basis for a future conference call on the subject issue.

Original signed by

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

Enclosures:

1. Participant list
2. WISP report
3. Document delineating staff concern on TAC M80152

cc w/enclosures:

See next page

Distribution (Enclosure 1)

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Enclosures 1, 2, and 3

Docket File

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PD Reading

E. Merschoff

P. Tam

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NAME	BClayton <i>BC</i>	PTam:as <i>PST</i>	FHebdon <i>H.</i>
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DOCUMENT NAME: summary

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LIST OF PARTICIPANTS
ROUTINE LICENSING STATUS MEETING
July 20, 1993

<u>Name</u>	<u>Affiliation</u>
Barry Elliot	NRC/NRR/Materials and Chemical Engineering Branch
D. Briggs	TVA
Sarah Eranki	TVA Watts Bar Site Licensing
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Paul Pace	TVA Watts Bar Site Licensing
Peter Tam	NRC/NRR/Project Directorate II-4
John Vorees	TVA Watts Bar Site Licensing
Keith Wichman	NRC/NRR/Materials and Chemical Engineering Branch

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
***** Active Actions *****												
M63590		[50]	TS	2	RN	WATTS BAR 1 - CORRECTIVE ACTION PROGRAM: Q - LIST.	(05/22/89)	(08/16/90)	(07/08/93C)	(09/30/93T)	(09/30/93T)	7/8/93 response to 1/23/91 comments under review.
M63591		[27]	TS	2	RN	WATTS BAR 1 - SPECIAL PROGRAM: EQUIPMENT QUALIFICATION OPEN ISSUE 4	(04/30/91)	(05/01/92)	(02/17/93C)	(02/28/94T)	(07/31/93T)	75% impl. inspection 11/93, SE on EQ 4-6 weeks after.
M63597		[57]	TS	3	RN	"WATTS BAR 1 - CONTAINMENT ISOLATION REVIEW"	(10/20/88)	(03/15/89)	(05/12/89C)	(07/31/93T)	(07/31/93T)	Safety evaluation being written.
M63632		[38]	TS	2	RN	"WATTS BAR 1 - MSLB OUTSIDE CONTAINMENT (SECT 3.11.3.3)"	(05/04/90)	(07/13/93)	(11/30/93T)	(10/15/93T)	(--/--/--)	RAI of 7/13/93. Response by 11/93.
M63648		[17]	TS	2	RN	WATTS BAR 1 - CORRECTIVE ACTION PROGRAM: FIRE PROTECTION, OPEN ISSUE 12, CONF. ISSUE 38, LIC. COND 20	(02/05/92)	(05/05/93)	(07/09/93C)	(11/30/93T)	(08/30/93T)	Received 7/2 response, and Thermo-Lag final report.
M63649		[101]	TS	2	RN	WATTS BAR 1 - POWER SYSTEM CONCERNS, AND FSAR AMEND. 75	(02/06/85)	(06/20/91)	(06/18/92C)	(11/30/93T)	(--/--/--)	FSAR Amend. 75 under review.
M63655		[50]	TS	2	RN	WATTS BAR 1 - SPECIAL PROGRAM: CONTROL ROOM DESIGN REVIEW	(05/22/89)	(04/28/89)	(10/24/90C)	(01/31/94T)	(08/31/93T)	Program review complete, SSER 6. Audit HEDs 12/93.
M63656		[5]	TS	3	RN	WATTS BAR 1 - EMERGENCY PLANNING LIC. COND. 27	(02/12/93)	(07/01/93)	(08/31/93T)	(12/30/93T)	(11/30/93T)	2/12/93 submittal under review. Response to RAI by 8/93.
M63657		[36]	TS	2	RN	"WATTS BAR 1 - PHYSICAL SECURITY PLAN (SECT 13.6)"	(07/24/90)	(--/--/--)	(03/26/93C)	(09/30/93T)	(11/30/93T)	Revision of PSP by 8/93, per meeting of 4/27.
M68624	A022	[15]	TS	2	LN	"WATTS BAR 1 - IMPLEMENTATION OF THE STATION BLACKOUT RULE, 10CFR50.63"	(04/22/92)	(--/--/--)	(04/28/93C)	(12/31/93T)	(01/31/94T)	Supplemental SE by 12/31/93.
M71923		[50]	TS	2	RN	WATTS BAR 1 - CORRECTIVE ACTION PROGRAM (CAP) FOR QA RECORDS"	(05/22/89)	(04/10/91)	(06/01/93C)	(07/31/93T)	(09/30/93T)	Ltr. of 6/1/93 on material control under review.
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.
M73723	F072	[48]	TS	2	RN	"WATTS BAR - MPA F-72: SAFETY PARAMETER DISPLAY SYSTEM- RESPONSE TO GL 89-06"	(07/11/89)	(--/--/--)	(11/01/90C)	(01/31/94T)	(12/31/93T)	SSER 6. "Functional" SPDS audit by 12/93.
M74488	B111	[10]	TS	3	RN	"WATTS BAR 1 - INDIVIDUAL PLANT EVALUATIONS (GL 88-20)"	(09/01/92)	(--/--/--)	(--/--/--)	(03/31/94T)	(03/31/94T)	Revision by 12/93; NRC RAI by 7/93; Erasmia Lois, reviewer.
M74801	A025	[0]	TS	3	RN	"WATTS BAR 1 - ACCEPTABLE IST PROGRAMS(GL 89-04)"	(--/--/--)	(--/--/--)	(--/--/--)	(03/31/94T)	(--/--/--)	Need IST submittal by 10/93. PLC 2 be resolved in SSER 12.
M76742		[43]	TS	2	RN	WATTS BAR 1 - TECHNICAL SPECIFICATION REVIEW	(12/29/89)	(04/02/93)	(06/04/93C)	(11/30/93T)	(--/--/--)	Response to "proof and review" under review.
M76881		[0]	TS	3	RN	WATTS BAR 1 - INSERVICE INSPECTION (LICENSE CONDITION 4)	(--/--/--)	(--/--/--)	(--/--/--)	(08/31/93T)	(--/--/--)	Need submittal or scheduler commitment to resolve PLC 4.
M76972		[43]	TS	2	RN	WATTS BAR UNIT 1 - QUALITY ASSURANCE PROGRAM (SER SECTION 17.0)	(12/07/89)	(--/--/--)	(07/08/93C)	(08/31/93T)	(--/--/--)	7/8/93 response to SSER 5 issue under review.
M76974		[27]	TS	2	RN	WATTS BAR UNIT 1 - SPECIAL PROGRAM : MECHANICAL EQUIPMENT QUALIFICATION	(04/30/91)	(04/09/92)	(02/17/93C)	(02/28/94T)	(12/31/93T)	MEQ status in EQ RAI response of 2/17/93 (TAC M63591).
M77222		[36]	TS	2	RN	WATTS BAR UNIT 1 - SEVERE ACCIDENT MITIGATION DESIGN ALTERNATIVES (SAMDA) IN THE FES	(07/30/90)	(01/29/91)	(06/05/93C)	(09/30/93T)	(--/--/--)	2/11 and 6/5/93 submittals under review. Target 10/31.
M77543		[102]	TS	2	RN	WATTS BAR 1 - PROCEDURE TO ESTIMATE CORE DAMAGE, (SECTION 9.3.2)	(01/31/85)	(--/--/--)	(07/31/93T)	(09/30/93T)	(--/--/--)	SSER 5. TVA submittal by 9/93, also address SER p. 9-18 req.
M77553		[11]	TS	2	RN	WATTS BAR 1 - OFFSITE DOSE CALCULATION MANUAL (ODOM)	(08/27/92)	(--/--/--)	(--/--/--)	(01/31/94T)	(--/--/--)	Being reviewed by INEL, staff target 1/94.
M77560		[106]	TS	3	RN	WATTS BAR 1 - HEAVY LOADS (LICENSE CONDITION 39)	(09/24/84)	(--/--/--)	(07/31/93T)	(12/31/93T)	(--/--/--)	TVA submittal by 9/93; last write-up in SSER 3, Section 9.1

Enclosure 2

Page	2		Report Date		07/21/93		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	
M77569		[3]	TS	2	RN	WATTS BAR 1 - STEAM GENERATOR TUBE	(04/13/93)	(--/--/--)	(--/--/--)	(08/15/93T)	(--/--/--)	SSER 12 will have full or partial closure.	
M79692		[30]	TS	2	RN	WATTS BAR 1 - PIPE BREAK SPECTRA USED AS RESULT OF LLB APPROVAL	(01/29/91)	(03/25/93)	(05/22/93C)	(08/15/93T)	(--/--/--)	Under review by EOCB, target 7/31.	
M79717		[30]	PM	2	RN	WATTS BAR 1 - SEISMIC DESIGN CONCERNS ORIGINATING FROM FSAR AMEND 64 OPEN ISSUE 19	(01/04/91)	(08/22/91)	(04/06/92C)	(08/31/93T)	(--/--/--)	Outstanding Issue 19 e to be closed in SSER 12.	
M79718		[27]	TS	2	RN	WATTS BAR 1 - MECHANICAL SYSTEMS CONCERNS ORIGINATING FROM FSAR AMEND. 64, OPEN ISSUE 20	(04/18/91)	(11/20/92)	(06/21/93C)	(07/30/93T)	(--/--/--)	OI 20(a) responses under review. U-bolt issue also.	
M79992		[28]	TS	2	RN	WATTS BAR 1 - SAFETY AND RELIEF VALVE TESTING (TMI II.D.1)	(03/21/91)	(04/15/93)	(10/31/93T)	(12/31/93T)	(12/31/93T)	Response to 4/15/93 RAI by 10/93.	
MB0152		[33]	TS	3	RN	WATTS BAR 1 - CONTAINMENT EFFECTS DUE TO REMOVAL OF BORON INJECTION TANK	(10/18/90)	(--/--/--)	(01/21/92C)	(08/15/93T)	(--/--/--)	Review by Cont. & Sev. Accid. Branch, target 7/31.	
MB1063		[17]	TS	2	RN	WATTS BAR 1 - USE OF EAGLE 21 PROCESS PROTECTION SYSTEM	(02/26/92)	(06/14/93)	(10/31/93T)	(12/31/93T)	(--/--/--)	Response to 6/14/93 RAI by 10/93.	
MB1887		[11]	TS	2	RN	WATTS BAR UNIT 1 - USE OF VANTAGE - 5H FUEL DESIGN	(08/24/92)	(--/--/--)	(--/--/--)	(07/31/93T)	(--/--/--)	Under review; plan to have conference call.	
MB2644		[18]	TS	2	RN	WATTS BAR 1 - FSAR AMENDMENT 69 AND 74.	(01/21/92)	(07/14/92)	(04/02/93C)	(08/31/93T)	(--/--/--NA)	Amendment 74 (Chap. 14) under review, target 7/93.	
MB3202		[15]	PM	2	RO	WATTS BAR 1 - DOCUMENTATION OF STAFF ACTIVITIES RELATED TO QTC	(04/30/92)	(--/--/--)	(--/--/--)	(12/30/93T)	(--/--/--)	NRR staff activities only, no TVA involvement.	
MB3525	B120	[12]	TS	3	RR	WATTS BAR 1 - GENERIC LETTER 92-01 REACTOR VESSEL STRUCTURAL INTEGRITY.	(07/07/92)	(--/--/--)	(--/--/--)	(12/31/93T)	(12/31/93T)	Under review; will contact TVA if staff sees problems.	
MB3693	B118	[0]	PM	3	RR	WATTS BAR 1 - IPEEE FOR EXTERNAL EVENTS (GL 88-20) SUPPLEMENT 4	(--/--/--)	(--/--/--)	(--/--/--)	(12/31/95T)	(--/--/--)	Letter issued to approve 5/22/95 submittal date.	
MB4234		[11]	TS	2	RN	WATTS BAR 1 - FSAR AMENDMENT 71.	(08/05/92)	(--/--/--)	(06/30/93C)	(08/31/93T)	(--/--/--)	Ltr on T. Huang Qs under review. Only SRXB and EOCB incomp.	
MB4249		[12]	TS	2	RN	WATTS BAR 1 - CONTROL ROD DRIVE MECHANISM SEISMIC QUALIFICATION.	(07/30/92)	(--/--/--)	(06/15/93C)	(09/30/93T)	(--/--/--)	Need conference call with Westinghouse per 7/7 telecon.	
MB4429		[11]	TS	2	RN	WATTS BAR 1 - SOLID RAD. WASTE PROCESS CONTROL PROGRAM.	(08/27/92)	(02/16/93)	(07/09/93C)	(09/30/93T)	(--/--/--)	RAI response under review.	
MB4733		[9]	TS	2	RN	WATTS BAR UNIT 1 - REVISED PRESSURE CALCULATION DUE TO MSLB OUTSIDE CONTAINMENT.	(10/13/92)	(--/--/--)	(--/--/--)	(09/30/93T)	(--/--/--)	TVA 6/22/93 letter says reanalysis complete.	
MB5037		[8]	TS	2	RN	WATTS BAR 1 - FSAR AMENDMENT 72 REVIEW.	(11/30/92)	(--/--/--)	(--/--/--)	(10/31/93T)	(--/--/--)	Response to Pedersen's comments on Chap. 12 by Amend. 84.	
MB5460	B122	[0]	TS	2	RR	WATTS BAR 1 - RESPONSE TO NRC B90-01, SUPPL. 1, LOSS OF FUELOIL IN ROSEMOUNT TRANSMITTERS (FOLLOWUP MPA X001)	(--/--/--)	(--/--/--)	(--/--/--)	(12/31/93T)	(--/--/--)	TVA confirmation letter by 11/93.	
MB5622	L208	[3]	TS	1	RR	WATTS BAR 1 - THERMO LAG (GL 92-08)	(04/16/93)	(--/--/--)	(--/--/--)	(09/30/93T)	(--/--/--)	Handled under fire protection, TAC M63648.	
MB5712		[6]	TS	2	RN	WATTS BAR 1 - APPENDIX G EXEMPTIONS SER REVISION.	(01/28/93)	(--/--/--)	(--/--/--)	(08/31/93T)	(--/--/--)	Revised submittal per 7/20 telecon needed.	
MB5774		[2]	TS	2	RN	WATTS BAR UNIT 1 - FSAR AMENDMENT 73.	(05/21/93)	(02/22/93)	(--/--/--)	(07/31/93T)	(--/--/--)	Under review in conjunction with VANTAGE 5H submittal.	
MB5802		[4]	TS	2	RN	WATTS BAR 1 - UPFLOW MODIFICATION.	(03/08/93)	(--/--/--)	(--/--/--)	(08/31/93T)	(--/--/--)	Under review by T. Huang of SRXB, target 8/31/93.	
MB6037		[3]	PM	2	LR	WATTS BAR 1 - RELIEFS TO ASME CODE FROM 1986 - 1989	(04/01/93)	(--/--/--)	(--/--/--)	(08/15/93T)	(--/--/--)	T. McLellan, reviewer. INEL, contractor. Target 7/31.	
MB6069		[4]	TS	2	RN	WATTS BAR UNIT 1 - ECCS EVALUATION MODEL CHANGES PER 10CFR 50.46	(03/17/93)	(--/--/--)	(--/--/--)	(08/31/93T)	(--/--/--)	TVA to propose schedule for LBLOCA reanalysis, 7/93.	
MB6286		[3]	TS	2	LR	WATTS BAR UNIT 1 - RELIEF FROM ASME SECTION XI FOR ACCUMUL-ATOR	(04/16/93)	(--/--/--)	(--/--/--)	(08/31/93T)	(--/--/--)	Awaiting supplement per 6/21 telecon, 7/93.	

Enclosure 3

WATTS BAR NUCLEAR PLANT
TAC M80152, CONTAINMENT EFFECT DUE TO REMOVAL OF THE BIT

In a letter dated January 26, 1984, you forwarded a report entitled "Report for the BIT Concentration Reduction/BIT Elimination Study for Watts Bar Units 1 and 2" dated August 1983. Due to the date of the 1983 report, it is not clear whether the analysis described therein was performed using the approved versions of the LOFTRAN/LOTIC-3 codes modified to account for superheat effect. The 1983 figure for the limiting lower compartment temperature break (i.e. 0.6 sq ft 30% power w/AFW runout) event appears to be identical to the figure incorporated into the FSAR as fig. 6.2.1-73 in Amendment 69.

Please explain why the 1983 analysis, for which superheat was treated as a separate, independent issue, (and thus may not have been considered), resulted in the same compartment temperature response curve as is currently depicted in the FSAR as including both superheat and BIT elimination effects.

Reviewer: Bill Long