

May 2, 1995

APPLICANT: Tennessee Valley Authority (TVA)

FACILITY: Watts Bar Nuclear Plant, Unit 1

SUBJECT: MEETING SUMMARY - APRIL 28, 1995, MEETING WITH THE TENNESSEE VALLEY AUTHORITY REGARDING STATUS OF SAFETY ISSUES (TAC M90068)

REFERENCE: Meeting notice by P. S. Tam, April 13, 1995

On April 28, 1995, NRC and TVA representatives met in the NRC office in Rockville, Maryland, to discuss the status of various Unresolved Safety Issues (USIs), Generic Safety Issues (GSIs), TMI Issues, and other multi-plant issues applicable to Watts Bar Unit 1. Results of the staff's audit of the status of various issues were provided to TVA by letter (F. Hebdon to O. D. Kingsley) dated February 23, 1995. Enclosure 1 is the list of participants.

Enclosures 2 and 3 are handout materials provided by TVA and the staff, respectively. These summarize TVA's and the staff's understanding of the status of issues that were identified as open in the February 23, 1995, letter. Participants agreed that in general, and where applicable, the Office of Nuclear Reactor Regulation is responsible for licensing action, TVA for implementation, and Region II for verification of each issue. TVA plans to make an initial response to the staff's letter by May 12, 1995.

Original signed by

Peter S. Tam, Senior Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Docket Nos. 50-390

Enclosures: 1. Participants list
2. TVA Generic Issues Task Report
3. NRC disposition of 84 open licensing actions

cc w/enclosures: See next page

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NAME	BClayton*		PTam		FHebdon		JJaudon*	
DATE	05/1 /95		05/2 /95		05/2 /95		05/1 /95	

*see previous concurrence

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WATTS BAR NUCLEAR PLANT

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MEETING ON WATTS BAR UNIT 1, SAFETY ISSUES STATUS

NRE OFFICE, ROCKVILLE, MARYLAND

APRIL 28, 1995

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Bruce Schofield
Peter Tam
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NRC/Region II
NRC/NRR/Project Directorate II-4
NRC/Region II
TVA/Watts Bar Site Licensing
NRC/NRR/Project Directorate II-4
TVA/Watts Bar Site Licensing

Enclosure 1

Generic Issues Task Report

Enclosure 2

Issue	Description	Assigned to	Date Assigned	Draft Complete	Licensing Approval	Reg II status	NRR Lic Action	TVA Opinion	NRR Impl	TVA Opinion	NRR Verif	TVA Opinion	TVA Actions	Comments
I.A.1.1.1	STA	Watkins Whitaker	3/14/95	4/4/95	4/4/95	Open	Open	Complete	Open	Complete	Open	Complete	Closure Pkg @NFC	(IR 95-01) Reg II to reverify function of new position
I.A.1.1.2	STA	Watkins Whitaker	3/14/95	5/4/95	4/5/95	Open	Open	Complete	Open	Complete	Open	Complete	Closure Pkg @NFC	(IR 95-01) Reg II to reverify function of new position
I.A.1.1.3	STA	Watkins Whitaker	3/14/95	6/4/95	4/6/95	Open	Open	Complete	Open	Complete	Open	Open	Closure Pkg @NFC	TVA is implementing program IAW GL 86-04; Reg II to Rev @ S/U
I.A.1.2	Shift Supv Resp	Watkins	3/15/95			Open	Complete		Open		Open		Closure Pkg @NFC	IR83-15 closed but not specific
I.A.1.3.1	Shift Manning	Watkins	3/15/95			Open	Open		Open		Open		Closure Pkg @NFC	SER closed I.A.1.3 but not I.A.1.3.1; New GL 82-02&-12 later; 94-55 closed IFI and xfer'd tracking to TMI#
I.A.1.3.2	Shift Manning	Watkins	3/15/95			Open	Open		Open		Open		Closure Pkg @NFC	SER closed I.A.1.3 but not I.A.1.3.2; New GL 82-02&-12 later; 94-55 closed IFI and xfer'd tracking to TMI#
I.A.2.1.1	RO/SRO Training & Quals	Watkins	3/15/95			Complete	Open		Open		N/A			SSER9 closed I.A.2.1 but not I.A.2.1.1 superceded by 10CFR55.31a4, 55.59c and GL87-07...Accredited prog. accepted but not specifically; IR94-65 closed but not specific.
I.A.2.1.2	RO/SRO Training & Quals	Watkins	3/15/95			Complete	Open		Open		N/A			SSER9 closed I.A.2.1 but not I.A.2.1.2 Superceded by 10CFR55.31a4, 55.59c and GL87-07...Accredited prog. accepted but not specifically; IR94-65 closed but not specific.
I.A.2.1.3	RO/SRO Training & Quals	Watkins	3/15/95			Complete	Open		Open		N/A			SSER9 closed I.A.2.1 but not I.A.2.1.3 Superceded by 10CFR55.31a4, 55.59c and GL87-07...Accredited prog. accepted but not specifically; IR94-65 closed but not specific.
I.A.2.1.4	RO/SRO Training & Quals	Watkins	3/15/95			Complete	Open		Open		Open			SSER9 closed I.A.2.1 but not I.A.2.1.4 Superceded by 10CFR55.31a4, 55.59c and GL87-07...Accredited prog. accepted but not specifically; IR94-65 closed but not specific.
I.A.2.1.5	RO/SRO Training & Quals	Watkins	3/15/95			Complete	Open		Open		N/A			SSER9 closed I.A.2.1 but not I.A.2.1.5 Superceded by 10CFR55.31a4, 55.59c and GL87-07...Accredited prog. accepted but not specifically; IR94-65 closed but not specific.
I.A.2.3	Training Programs	Watkins	3/15/95			Complete	Complete		Open		N/A			Open because Reg II said so. IR 91-04
I.A.3.1.1	Operator Licensing Exams	Watkins	3/15/95			Complete	Open		Open		N/A			SER & SSER9 closed but not specifically; IR94-55 xfer'd to TMI
I.A.3.1.2	Operator Licensing Exams	Watkins	3/15/95			Complete	Open		Open		N/A			SER & SSER9 closed but not specifically; IR94-55 xfer'd to TMI
I.A.3.1.3.A	Operator Licensing Exams	Watkins	3/15/95			Complete	Open		Open		N/A			SER & SSER9 closed but not specifically; IR94-65 xfer'd to TMI
I.B.1.2	SEG	Whitaker	3/16/95	3/22/95	4/7/95	Open	Complete	Open	Open	Open	N/A	Open	Closure Pkg @NFC	Complete based on TS; ISEG now in NQAP; Reg II to reverify function of new org; IR94-55 xfer'd to TMI
I.C.1.1	EOPs	Watkins	3/15/95			Open	Open		Open		Open		Closure Pkg @NFC	SER & SSER9 closed but not specifically; IR 85-08 left open
I.C.1.2.A	EOPs	Watkins	3/15/95			Complete	Open		Open		N/A			SER & SSER9 closed but not specifically; IR 85-08 left open
I.C.1.2.B	EOPs	Watkins	3/15/95			Complete	Open		Open		Open			SER & SSER9 closed but not specifically; IR 85-08 left open
I.C.1.3.A	EOPs	Watkins	3/15/95			Complete	Open		Open		N/A			SER & SSER9 closed but not specifically; IR 85-08 left open
I.C.1.3.B	EOPs	Watkins	3/15/95			Complete	Open		Open		Open			SER & SSER9 closed but not specifically; IR 85-08 left open

Generic Issues Task Report

I.C.2	Shift Turnover Procedures	Watkins	3/15/95				Complete		Complete		Open		Closure Pkg @NRC	SER closed; IR 91-04 reopened; IR 94-55 xfer'd to TM
I.C.3	Shift Supv Responsibility	Watkins	3/15/95				Open	Complete		Open		Open	Closure Pkg @NRC	LA complete despite no specifics from tech personnel; SER closed; IR 91-04 reopened; IR 94-55 xfer'd to TM
I.C.4	MCR Access	Watkins	3/15/95				Open	Complete		Open		Open	Closure Pkg @NRC	SER closed; IR 91-04 reopened; IR 94-55 xfer'd to TM
I.C.5	NER	Bize	3/14/95	3/24/95	3/27/95		Complete	Complete	Complete	Complete	Complete	Complete	Complete	IR 94-63 verifies IAW TI but need SER? Status is complete... words are open? Reg II waiting on resolution of NOV 93-59-02
I.C.6	Verifying Correct Perf of Operating Activities	Bize	3/27/95				Open	Complete		Open		Open	Closure Pkg @NRC	
I.C.7.1	NSSS vendor review of Procedures	Bize	3/15/95	3/28/95	3/28/95		Open	Complete	Complete	Open	Complete	N/A	Upgrades also Incl. vendor review	Low Power Test prog not specifically discussed, but PAT is mentioned in SER (FSAR definition includes LPT within PAT program)
I.C.7.2	NSSS vendor review of Procedures	Bize	3/15/95	4/20/95	4/21/95		Complete	Complete	Complete	Open	Complete	N/A	Upgrades also Incl. vendor review	Complete despite only upper tier ref; Impl open til upgraded tests reviewed. Procedures R&A'd by Westinghouse
I.C.8	Monitoring EOPs	Bize	3/27/95	4/21/95	4/21/95		Complete	Complete	N/A	Open	N/A	N/A	N/A	IR 93-30 did not close it; Reg II shows closed [NUREG660->737->GL82-33->799->899->ERGs so pilot monitoring is N/A]
I.D.2.1	SPDS	Brown	1/1/95				Open	Open		Open		Open	Proj Plan 8/13/95 - NRC Closing	Recent team inspection will close
I.D.2.2	SPDS	Brown	1/1/95				Open	Open		Open		Open	Proj Plan 8/13/95 - NRC Closing	Recent team inspection will close
I.D.2.3	SPDS	Brown	1/1/95				Open	Open		Open		Open	Proj Plan 8/13/95 - NRC Closing	Recent team inspection will close
I.Q.1.1	Preop and Low Power Tests	see MPA B066					Complete	Complete		N/A		N/A		Closed in SER10 and IR 93-36
I.Q.1.2	Preop and Low Power Tests	see MPA B066					Complete	Complete		N/A		N/A		Closed in SER10 and IR 93-36
I.Q.1.3	Preop and Low Power Tests	see MPA B066					Complete	Complete		N/A		N/A		Closed in SER10 and IR 93-36
II.B.1.1	RCS Vents	Bize	1/1/95				Open	Complete		Open		N/A	Project Plan - TVA response to 77s - 5/14/95	LA Complete despite only upper tier ref and seven open issues; IR91-04 raised more issues; Open pending TVA letter
II.B.1.2	RCS Vents	Bize	1/1/95				Open	Open		Open		Open	Project Plan - TVA response to 77s - 5/14/95	LA Complete despite only upper tier ref and seven open issues; IR91-04 raised more issues; Open pending TVA letter
II.B.1.3	RCS Vents	Bize	1/1/95				Open	Complete		Open		Open	Project Plan - TVA response to 77s - 5/14/95	LA Complete despite only upper tier ref and seven open issues; IR91-04 raised more issues; Open pending TVA letter
II.B.2.1	Shielding	Mays	1/1/95	TVA ltr 5/24/94			Open	Complete		Open		N/A	Closure Pkg @NRC	LA open since specifics not addressed and TVA revised position 4 times after SER; IR 94-43 questioned PASS mission times.
II.B.2.2	Shielding	Mays	1/1/95	TVA ltr 5/24/94			Open	Complete		Open		N/A	Closure Pkg @NRC	LA open since specifics not addressed and TVA revised position 4 times after SER; IR 84-41 closed II.B.2.2 but not specific enough.
II.B.2.3	Shielding	Mays	1/1/95	TVA ltr 5/24/94			Open	Open		Open		Open	Closure Pkg @NRC	LA open since specifics not addressed and TVA revised position 4 times after SER; IR 84-90 closed but is open due to LA being open.
II.B.3.1	PASS	Touchstone	1/1/95	TVA ltr 6/10/94			Open	Open		N/A		N/A	Project Plan - 8/20/95	SER not specific enough

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II.B.3.2	PASS	Touchstone	1/1/95	TVA ltr 6/10/94		Open	Open		Open		N/A		Project Plan - 8/20/95	SER not specific enough
II.B.3.3	PASS	Touchstone	1/1/95	TVA ltr 6/10/94		Open	Open		Open		N/A		Project Plan - 8/20/95	SER 14 not specific enough
II.B.3.4	PASS	Touchstone	1/1/95	TVA ltr 6/10/94		Open	Open		Open		Open		Project Plan - 8/20/95	SER not specific enough; IR 94-43 left open
II.B.4.1	Mitigating Core Damage Training	Watkins	3/15/95			Open	Open		Open		Open			SER not specific enough; IR 85-08 & 85-59 closed
II.B.4.2	Mitigating Core Damage Training	Watkins	3/15/95			Open	Open		Open		Open			SER not specific enough; IR 85-08 & 85-59 closed
II.D.1.1	Safety and Relief Valve Test Requirements	Horning	1/1/95	TVA ltr 12/26/93 7/19/94		Open	Open		Open		Open		Project Plan - 5/14/95	SER not specific enough; NRC owes response to 1993 letters; reopened by NRC ltr 10/10/91
II.D.1.2	Safety and Relief Valve Test Requirements	Horning	1/1/95			Open	Open		Open		Open		Project Plan - 5/14/95	SER not specific enough; NRC owes response to 1993 letters; reopened by NRC ltr 10/10/91
II.D.1.3	Safety and Relief Valve Test Requirements	Horning	1/1/95			Open	Open		Open		Open		Project Plan - 5/14/95	SER not specific enough; NRC owes response to 1993 letters; reopened by NRC ltr 10/10/91
II.D.3	Valve Position Indication					Complete	Complete		Complete		Complete			Complete
II.E.1.1.1	AFW System Evaluation	Watkins	1/1/95	HFT-2		Open	Complete		Open		N/A		Project Plan - 5/28/95	SER not specific enough BUT CLOSED?
II.E.1.1.2	AFW System Evaluation	Watkins	1/1/95	HFT-2		Open	Open		Open		Open		Project Plan - 5/28/95	SER not specific enough SO LA OPEN? B&V report led to changes not approved by NRC; Verif open til 48 hour endurance run completed
II.E.1.2.1.A	AFW System Init and Flow	Bize	4/17/95			Complete	Complete	Complete	Complete	N/A	Complete	N/A	Implemented SG AFW Inst	SER not specific enough BUT CLOSED? [TVA stated that Inst is safety grade so no short term control grade action req'd]
II.E.1.2.1.B	AFW System Init and Flow	Bize	4/17/95			Complete	Complete		Open		Open			SER not specific enough BUT CLOSED? IR84-20 & IR 85-08 closed, IR88-01 opened...what does closed mean?
II.E.1.2.2.A	AFW System Init and Flow	Bize	4/17/95			Complete	Complete		Complete		Complete			SER not specific enough BUT CLOSED? Short term control reqmts more than met.
II.E.1.2.2.B	AFW System Init and Flow	Bize	4/17/95			Complete	Complete		Open		Open			SER not specific enough BUT CLOSED? IR84-20 & IR 85-08 closed, IR88-01 opened...what does closed mean?
II.E.3.1	PZR Htr Emergency Power	Grozan	3/21/95	3/24/95	4/4/95	Complete	Complete	Complete	Open	Complete	Open	Complete	Complete	SER closed LA; IR 84-20 closed impl but did not follow TI; TS approval is independent of TMI
II.E.4.2.1-4	Cont Isolation Dependability	Bize	4/26/95			Complete	Open		Open		Open			SSER5 resolved LC7 & Conf Issue 18; NRC owes response to TVA ltrs dated prior to SSER 5; IR84-35 closed but now open due to LA open and TVA modified responses after IR84-35
II.E.4.2.5	Cont Isolation Dependability	Bize	4/26/95			Complete	Complete		Complete		Complete			SER closed LA; IR 84-35 closed impl
II.E.4.2.6	Cont Isolation Dependability	Bize	4/26/95			Complete	Complete		Open		Open			SSER5 closed LA; IR84-35 closed before LA which req'd block vlvs on 24" line was closed so it stays open
II.E.4.2.7	Cont Isolation Dependability	Bize	4/26/95			Complete	Complete		Open		Open			SER closed LA; IR 84-35 did not address vlv closure on HI rad
II.F.1.1	Accident Monitoring	Mays	1/1/95	N/A	N/A	Open	Open	Complete	Open	Complete	N/A	Complete	Project Plan - Complete	SER not specific; IR85-36 closed but IR91-04 reopened
II.F.1.2.A	Accident Monitoring	Mays	1/1/95	TVA ltr 5/19/94		Open	Open		Open		Open		Project Plan - 8/20/95	Open
II.F.1.2.B	Accident Monitoring	Mays	1/1/95	TVA ltr 5/19/94		Open	Open		Open		Open		Project Plan - 8/20/95	Open

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II.F.1.2.C	Accident Monitoring	Johnson	1/1/95	TVA ltr 5/19/94		Open	Open		Open		Open		Project Plan - 8/20/95	Open
II.F.1.2.D	Accident Monitoring	Bize	1/1/95	TVA ltr 5/19/94	3/28/95	Open	Open	Open	Open	Open	Open	Open	Project Plan - 8/6/95	Open
II.F.1.2.E	Accident Monitoring	Bize	1/1/95	TVA ltr 5/19/94		Open	Open		Open		Open		Project Plan - 5/14/95	Open
II.F.1.2.F	Accident Monitoring	Horning	1/1/95	TVA ltr 5/19/94		Open	Open		Open		Open		Project Plan - 7/9/95	Open
II.F.2.2	Instrumentation for Detection of ICC	Horning	1/1/95			Open	Open		Open		Open		Project Plan - 8/1/95 - TVA Impl. ltr req'd	SSER 10 not specific enough; Impl ltr report from TVA is required
II.F.2.3	Instrumentation for Detection of ICC	Horning	1/1/95			Open	Open		Open		N/A		Project Plan - 8/1/95 - TVA Impl. ltr req'd	SSER 10 not specific enough; Impl ltr report from TVA is required
II.F.2.4	Instrumentation for Detection of ICC	Horning	1/1/95			Open	Open		Open		Open		Project Plan - 8/1/95 - TVA Impl. ltr req'd	SSER 10 not specific enough; Impl ltr report from TVA is required
II.G.1	Power Supplies for PZR Relief & Block Valves					Complete	Complete		Open		Open			IR 85-25 not specific enough
II.K.1.10	Operability of Safety Systems					Complete	Open		Open		N/A			IR 85-08 not specific enough
II.K.1.17	Low Pressure Trip Function					Complete	Open		Open		N/A			SER not specific enough
II.K.1.5	Safety Related Valves					Complete	Open		Open		N/A		TVA to clarify conformance to IEB?	SER & TVA did not link TMI and IEB80-06 and SSER 3 and IR 85-08 are not specific enough
II.K.2.13	RPV Integrity w/SBLOCA					Complete	Complete		N/A		N/A			Complete
II.K.2.17	RCS voiding during ATWS					Complete	Complete		N/A		N/A			Complete
II.K.2.19	Analysis of sequential AFW flow					Complete	Complete		N/A		N/A			Complete
II.K.3.1	Auto Isol of PZR PORV					Complete	Complete		N/A		N/A			Complete
II.K.3.10	Anticipatory trip					Complete	Complete		Open		Open		TVA to verify?	Open pending verif that anticipatory trip mod is complete
II.K.3.12.A	Anticipatory trip					Complete	Complete		N/A		N/A			Complete
II.K.3.17	ECCS outages	tcg (NPRDS)				Complete	Complete		N/A		N/A			Complete
II.K.3.2	Stuck open PORV effects					Complete	Complete		Complete		N/A			Complete
II.K.3.25.A	RCP seals w/o AC power					Complete	Complete		Complete		N/A			Complete
II.K.3.25B	RCP seals w/o AC power					Complete	Complete		Complete		Complete			Complete
II.K.3.3	Safety & Relief Valve Failures					Complete	Complete		Open		N/A			IR 85-08 did not address whether Admin Proc revised
II.K.3.30.A	SBLOCA Model					Complete	Open		Open		N/A		TVA ltr req'd?	SER not specific enough; TVA ltr req'd to say model constitutes Implementation?
II.K.3.30.B	SBLOCA Model					Complete	Open		Open		N/A		TVA ltr req'd?	SER/IR/TVA not specific enough
II.K.3.30.C	SBLOCA Model					Complete	Open		Open		N/A		TVA ltr req'd?	SER/IR/TVA not specific enough
II.K.3.31	Compliance w/ 10CFR50.46					Complete	Complete		Complete		N/A			Complete
II.K.3.5.A	Auto Trip of RCPs					Complete	Open		N/A		N/A			SSER 5 not specific enough; Impl discussion needs clarification

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II.K.3.5.B	Auto Trip of RCPs					Complete	Open		Open		Open			SSER 5 not specific enough; IR 85-08 does not document impl of auto trip of RCPs on SBLOCA
II.K.3.9	PID Controller Mods					Complete	Complete		Complete		Open			IR 84-35 not IAW TI
III.A.1.2.1	REP Facilities	Schneck	3/21/95	3/30/95	4/3/95	Complete	Complete	Complete	Complete	Complete	N/A	Complete	Complete	SER 13 & IR94-57 closed but not specific enough
III.A.2.1	Emergency Preparedness	Schneck	3/21/95	3/30/95	4/21/95	Complete	Complete	Complete	Open	Complete	N/A	Complete	Complete	SER 13 & IR93-64 closed but not specific enough. (IR94-57 closes item)
III.A.2.2	Emergency Preparedness	Schneck	3/21/95	4/4/95	4/4/95	Complete	Complete	Complete	Open	Complete	N/A	N/A	Complete	SER not specific enough BUT CLOSED?based on met program discussion. IR 93-64 did not address met equip
III.D.1.1	Primary Coolant Outside Containment Iodine Rad Monitoring	Mays	1/1/95			Open	Complete		Open		Open		Project Plan - 5/21/95	IR 85-60 left open pending review of leak reduction program
III.D.3.3.1	Iodine Rad Monitoring					Complete	Complete		Open		Open			SER not specific enough BUT CLOSED?based on radiiodine sampling discussion. IR 93-81 reopened, IR 94-06 closed 93-81 but not specific enough
III.D.3.3.2	Iodine Rad Monitoring					Complete	Complete		Open		Open			SER not specific enough BUT CLOSED?based on radiiodine sampling discussion. IR 93-81 reopened, IR 94-06 closed 93-81 but not specific enough
III.D.3.4.1	MCR Habitability	Mays	1/1/95			Open	Open		N/A		N/A		Project Plan - 8/20/95	SER not specific enough;
III.D.3.4.2	MCR Habitability	Mays	1/1/95			Open	Open		N/A		N/A		Project Plan - 8/20/95	SER not specific enough;
III.D.3.4.3	MCR Habitability	Mays	1/1/95			Open	Open		Open		Open		Project Plan - 8/20/95	SER not specific enough;TVA 55e reports discuss deficiencies therefore impl. is open?
MPA FO08 I.D.1	CDR	Brown	1/1/95			Complete	Complete		N/A		N/A		Project Plan - 6/4/95	Complete
MPA FO71 LD.1	CDR	Brown	1/1/95			Complete	Open		Open		Open		Project Plan - 6/4/95	SER not specific or complete enough;
A-01	Water Hammer	Grozan	3/24/95	3/28/95	4/4/95		Open	Complete	Open	Open	N/A	N/A	In SUT program	SER closure of LA is still valid since new guidance affected CPs after 1984; IR closures not documented well enough
A-02	Asymmetric Blowdown Loads on RCS	Grozan	3/24/95	3/30/95	3/31/95		Complete	Complete	Open	Complete	N/A	N/A	Complete	NRR never closed issue. NRC approved method & FSAR is revised
A-03	S/G Tube Integrity	Grozan	3/24/95	3/28/95	3/29/95		Complete	Complete	Open	Open	N/A	N/A	7/14/95 closure of 2 NCOs	TS approval is an independent issue. Open pending completion of 2 NCOs on ISI program; NRC approval of GL 85-02 not documented.
A-09	ATWS	Grozan	3/24/95	3/30/95	4/3/95		Open	Complete	Open	Complete	Open	Complete	Complete	TS approval is independent issue; IRs 94-55,94-84, and 95-05 closed the issue [On hold for PER on Q listing of 2 AMSAC components]
A-11	RPV Material Toughness	Schneck	4/21/95				Open		Open		N/A			SER did not address long-term suitability of RPV;
A-17	System Interactions	Grozan	3/24/95				Open		Open		N/A		Check if Sys Interactions in GL88-20?	SER did not close LA; TVA to address Sys Interactions in IPE (GL 88-20)
A-24	EQ	Grozan	3/24/95				Open		Open		Open			EQ
A-26	RPV Transient Protection	Schneck	4/6/95	4/24/95	4/24/95		Complete		Open		Open		Provide copy to NRC	Impl documents not in NUDOCs
A-31	RHR S/D Requirements	Grozan	3/24/95				Complete		Complete		N/A			IR 84-28 did provide enough specific detail to close
A-36 (CO10)	Heavy Loads near SFP	Grozan	3/24/95				Complete		Open		N/A		Verify program in place or scheduled	Impl of Phase I by first RFO
A-40 (B109)	Seismic Design Criteria	Grozan	3/24/95				Complete		Complete		N/A			Complete

Generic Issues Task Report

A-44	SBO	Grozan	3/24/95				Complete		Open		Open		Verify Impl or scheduled	Impl due by FL; IR 93-44 closed issue?
A-45	RHR Requirements	Grozan	3/24/95				Complete		Open		N/A			Complete
A-47	Control Systems	Grozan	3/24/95				Open		Open		N/A			SER did not close LA; TS item req'd; NRC Impl review req'd
A-48	Hydrogen Control	Whitaker	4/6/95				Complete		Open		N/A			IR85-84 not specific enough
A-49	PTS	Schneck	6/4/95				Open		Open		N/A			NRC closed 50.61 but response req'd to TVA App G Exemption request
43 (B107)	Reliability of Air Systems						Complete		Open		N/A			IR 90-20 not specific enough
51 (L913)	Open Cycle Cooling System Reliability	TVA ltr 5/23/94					Complete		Open		Open		Verify Impl or schedule	Impl was HFT now by FL; IRs not specific enough
67.3.3	Improved Accident Monitoring						Complete		Open		Open			IR 94-31 & 94-56 not specific enough
70 (B114)	PORV & Block Vlv Reliability	Schneck	6/4/95				Open		Open		N/A			NRC 1/9/91 not specific enough; TS req'd per SSER 6; IR 90-203 not specific enough/requires LA completion
75 (B076)	GL 83-28 Post Trip Review	Grozan	3/4/95	4/7/95	4/7/95		Complete	Complete	Complete	Complete	N/A	N/A	Complete	Complete
75 (B077)	GL 83-28 - Equip Class and Vendor Interface	Grozan	3/4/95	4/20/95	4/21/95		Complete	Complete	Open	Open	Open	Open	Finish Vendor Info CAP	Impl of Vendor Info CAP & C/A on deficiencies req'd]
75 (B078)	GL 83-28 - PMT	Grozan	3/4/95				Open		Open		Open			TVA modified response 11/1/93 & NRC has not documented review & approval; IR 94-73 stated further review req'd
75 (B079)	GL 83-28 - PMT	Grozan	3/4/95	4/7/95	4/7/95		Complete	Complete	Complete	Complete	Complete	Complete	Complete	Recent NRC inspection verified; TCG verified TS still valid
75 (B080)	GL 83-28 - Rx Trip Sys Reliability	Grozan	3/4/95	4/7/95	4/7/95		Complete	Complete	Complete	Complete	Complete	Complete	Complete	Recent NRC inspection verified
75 (B081)	GL 83-28 - Rx Trip Sys Reliability	Grozan	3/4/95	4/7/95	4/7/95		Complete	Complete	Complete	Complete	Open	Complete	Complete	Insp Rpt closure not IAW TI
75 (B082)	GL 83-28 - Rx Trip Sys Reliability	Grozan	3/4/95	4/25/95	4/25/95		Complete	Complete	Complete	Complete	N/A	N/A	Complete	Complete - IR verified shunt trip mods
75 (B085)	GL 83-28 - Post Trip Data	Grozan	3/4/95	4/21/95	4/21/95		Complete	Complete	Complete	Complete	N/A	N/A	Complete	Complete
75 (B086)	GL 83-28 - Equip Class	Grozan	3/4/95	4/21/95	4/21/95		Complete	Complete	Open	Complete	Open	Complete	Complete	SERs closed on program but IRs not found covering implementation [TVA ltr 1/28/94 & IR 94-27 not found by NRC]
75 (B087)	GL 83-28 - PMT	Grozan	3/4/95				Open		Open		Open			TVA modified response 11/1/93 & NRC has not documented review & approval; IR 94-73 stated further review req'd
75 (B088)	GL 83-28 - PMT	Grozan	3/4/95	4/25/95	4/25/95		Complete	Complete	Complete	Complete	Complete	Complete	Complete	IR not IAW TI BUT CLOSED? No Dev or NOV = adequate?
75 (B090)	GL 83-28 - Rx Trip Sys Reliability	Grozan	3/4/95	4/25/95	4/25/95		Complete		Open		N/A		Tech Specs	TS req'd to close Impl.
75 (B092)	GL 83-28 - Rx Trip Sys Reliability	Grozan	3/4/95	4/24/95	4/26/95		Complete		Open		Open		Tech Specs	TS req'd BUT LA CLOSED? Impl not documented; IR 86-04 not specific enough [Hold open for TS?]
75 (B093)	GL 83-28 - Rx Trip Sys Reliability	Grozan	3/4/95	4/24/95	4/24/95		Complete		Open		N/A		Tech Specs	TS req'd BUT LA CLOSED? Impl left open due to TS
75 (L003)	GL 83-28 - Vendor Interface	Grozan	3/4/95	4/21/95	4/21/95		Complete	Complete	Open	Open	Open	Open	Finish Vendor Info CAP	IR 86-04 closed, IR 89-03 opened, IR 93-27 more problems, NOV 95-10-01
93 (B098)	Steam binding of AFW Pumps						Complete		Open		Complete			Review of Proc Mods not documented; IR 90-20 closed BL 85-01
94 (B115)	LTOP	Schneck	4/6/95	4/22/95	4/22/95		Open		Open		N/A			No NRR response to 5/16/91 TVA ltr
99 (L817)	RCS/RHR Suction Line Valve						Complete		Open		Open		Verify Impl or sched	SE not specific enough BUT LA CLOSED? No documentation of implementation

Generic Issues Task Report

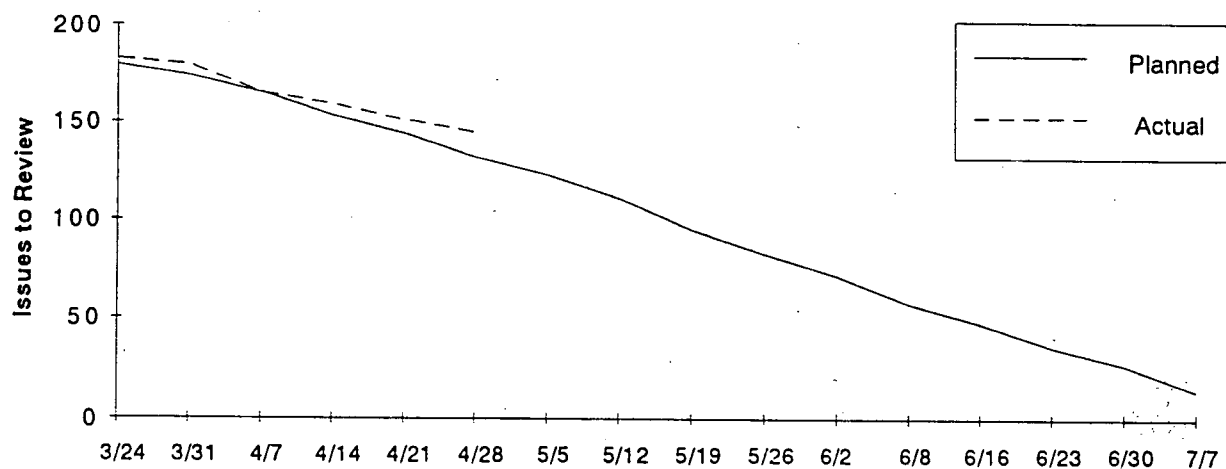
A-13 (B017)	Hydraulic Snubbers						Open		Open		N/A		Tech Specs	TS req'd to close LA; IFI 90-22-03 open on funct insp before FL
A-13 (B022)	Mechanical Snubbers						Open		Open		N/A		Tech Specs	TS req'd to close LA; IFI 90-22-03 open on funct insp before FL
B-63	SLOCA						Open		Open		N/A			SER not specific enough did not address GL89-04 or 80-14; IST not complete although it is in MPA A025 (SSER 14)
A016	Qual of Personnel						Open		Open		N/A			SERs & IRs not specific enough, did not address GL81-01 or MPA A-016
A023	RG 1.99 PTS Rule	Schneck	4/6/95	4/19/95	4/21/95		Open	Open	Open	Open	N/A	N/A	Complete w/ PTLR submittal 3/29/95	TS req'd to close LA&impl; Subsequently removed per STS; NRC review of 3/29/95 PTLR submittal is needed
A025	IST Reviews and schedules						Complete		Open		Open			IRs doc of IST implementation is not sufficient although it is in MPA A025 (SSER 14)
B024	Cont Purge and Venting						Open		Open		Open			SERs & IRs not specific enough, did not address GL79-46 or MPA B024; IR did not cover valve blocks
B031	Deep Draft Pump Deficiencies	Schneck	3/29/95	4/6/95	4/7/95		Open	Complete	Open	Complete	Open	Complete	Complete	No SER on TVA revised response 1/24/92; Insp Rpt closure not considered good enough
B043	FW Pipe cracking						Complete		Complete		N/A			Complete
B063	EOPs and training for SBO						Open		Open		N/A			SER did not address long term
B066	Natural Circulation Cooldowns						Complete		N/A		N/A			Complete
B089	Salem ATWS	Grozan	4/3/95	4/24/95	4/26/95		Complete	Complete	N/A	N/A	N/A	N/A	Complete	Complete
B095	Loss of RHR						Complete		N/A		N/A			Complete
B096							Complete		N/A		N/A			Complete
B101	Boric Acid Corrosion of FPB						Complete		Open		Open		Verify Impl or schedule	Impl. completion not documented
B110	MOV Testing and Surv	TVA ltr 9/28/93					Open		Open		Open		Address/Close NOV	No SER on GL89-10 program as revised through 3/3/94; IR 94-36 NOV and deficiencies mean program is still open
B111	IPE	Grozan	4/25/95				Complete		Open		N/A		Verify Impl or schedule	Impl completion not documented
B117	S/G Tube Mechanical plugs						Complete		Complete		N/A			Complete
B118	IPEEE	Grozan	4/25/95				Open		Open		N/A		Verify Impl or schedule	IPEEE 120 days after RFO
B120	RPV Integrity	Schneck	4/6/95	4/19/95	4/21/95		Complete	Complete	Complete	Complete	N/A	N/A	Complete	Complete
B122	Rosemount Transmitters						Complete		Complete		Complete			Complete
B123	Inaccuracies in MOV diagnostic equipment	TVA ltr 9/28/93					Complete		Complete		N/A			Complete
F072	SPDS						Open		Open		N/A		Verify Impl or schedule	No SER on TVA 11/1/90 ltr; Impl due after first RFO
L208	THERMO LAG 330-1 Fire Barriers						Open		Open		N/A		Reach closure	ThermoLag GL 92-08 is open
L304	Rod control system failure and withdrawal						Open		Open		N/A		Verify Impl or schedule	TVA owes response to 12/9/94 ltr? Documentation of Impl
L907	Vehicular Bomb Threat						Complete		Open		Open		Verify Impl or schedule	Documentation of Vehicular Bomb Threat Implementation; IR needed on GL 89-07
L908	Erosion/Corrosion-Induced pipe thinning						Complete		Open		N/A		Verify Impl or schedule	Erosion/Corrosion Implementation documentation

Generic Issues Task Report

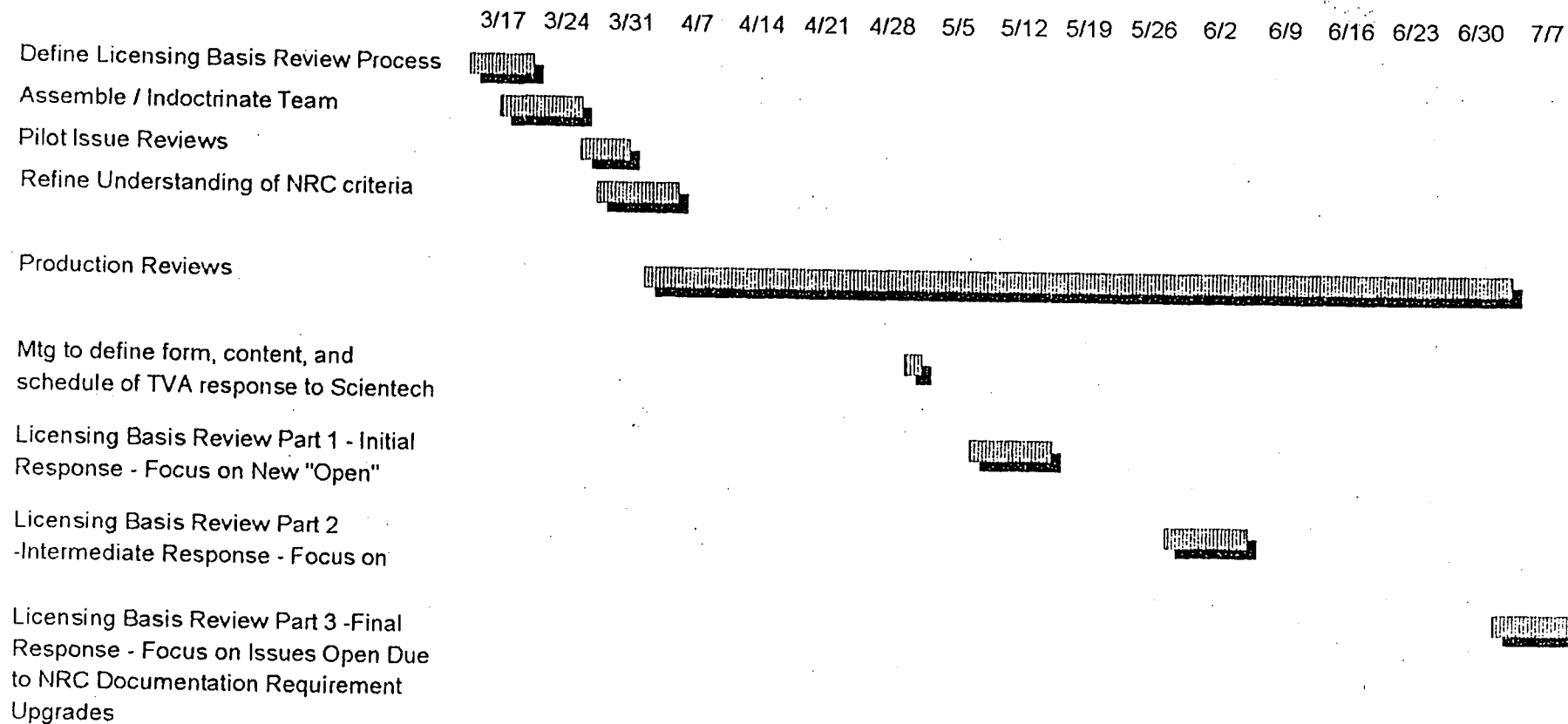
X801	Rosemount Transmitters						Complete		N/A		N/A			Complete
X801	Westinghouse circuit breakers						Complete		Complete		N/A			Complete
X802	SGTR						Open		Open		N/A			No SER on TVA 3/1/89 suppl response to BL 88-02; IR does not close the issue
X803	GE HFA Relays						Complete		Complete		N/A			Complete
X804	Safety-related pump loss						Complete		Open		Open		TVA ltr req'd???	No SER on revised response to BL 88-04 but CLOSED? IR 94-10 closed the issue but issue is open due to lack of TVA ltr saying "complete"??? Verif open due to concerns???
X805	Non-conforming materials by piping suppliers						Complete		Complete		N/A			Complete
X808	Thermal stress on piping	TVA ltr 3/29/94					Open		Open		N/A		TVA Response Req'd	TVA response to 10/21/94 RAI
X809	Thimble tube thinning						Open		Open		N/A			No SER on TVA 3/11/94 ltr
X810	Circuit breaker material problems						Complete		Open		N/A			IR 93-11 closed but left open here due to existence of CDR 90-06
X811	Thermal Stratification in PZR Surge Line	TVA ltr 7/5/94					Complete		Open		N/A		Verify Impl or schedule	TVA to modify supports and provide data from HFT of surge line pipe whip restraint gaps
X901	S/G Mechanical Tube Plugs						Complete		Complete		N/A			Complete
X902	Anchor-Darling Vlv Stress Corrosion Cracking						Complete		Complete		N/A			Complete
X903	Loss of S/D Margin during RFO						Complete		Open		N/A		Verify Impl or schedule	No documentation of implementation; req'd for FL
Issue	Description	Assigned to	Date Assigned	Draft Complete	Licensing Approval	Reg II status	NRR Lic Action	TVA Opinion	NRR Impl	TVA Opinion	NRR Verif	TVA Opinion	TVA Actions	Comments
					<i>Italics mean it's been returned</i>	<i>NRN/NUREG 1435</i>		<i>Some TVA and NRR statuses are different</i>		<i>NRN/NUREG 1435</i>				

Generic Issue Packages	3/24	3/31	4/7	4/14	4/21	4/28	5/5	5/12	5/19	5/26	6/2	6/8	6/16	6/23	6/30	7/7
Bize																
Planned	1	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3
Actual	0	0	0													
Grozan																
Planned		1	2	3	2	3	2	3	2	3	2	3	2	3	2	3
Actual		2	7													
Schneck																
Planned		1	2	3	2	3	2	3	2	3	2	3	2	3	2	3
Actual		0	3													
Watkins																
Planned	2	2	2	3	2	3	2	3	2	3	2	3	2	3	2	3
Actual	0	1	2													
WBN Lic																
Planned	0	0	0	0	0	0	0	0	7	0	2	2	1			1
Actual	0	0	1													
Whitaker																
Planned			1		1		1		1		1		1		1	
Actual		0	2													
Total																
Planned	3	6	9	12	9	12	9	12	16	12	11	14	10	12	9	13
Actual	0	3	15	0	0	0	0	0	0	0	0	0	0	0	0	0
Cumulative																
Planned	3	9	18	30	39	51	60	72	88	100	111	125	135	147	156	169
Actual	0	3	18	24	32	38	38	38	38	38	38	38	38	38	38	38
Workoff Curve	3/24	3/31	4/7	4/14	4/21	4/28	5/5	5/12	5/19	5/26	6/2	6/8	6/16	6/23	6/30	7/7
Planned	180	174	165	153	144	132	123	111	95	83	72	58	48	36	27	14
Actual	183	180	165	159	151	145										

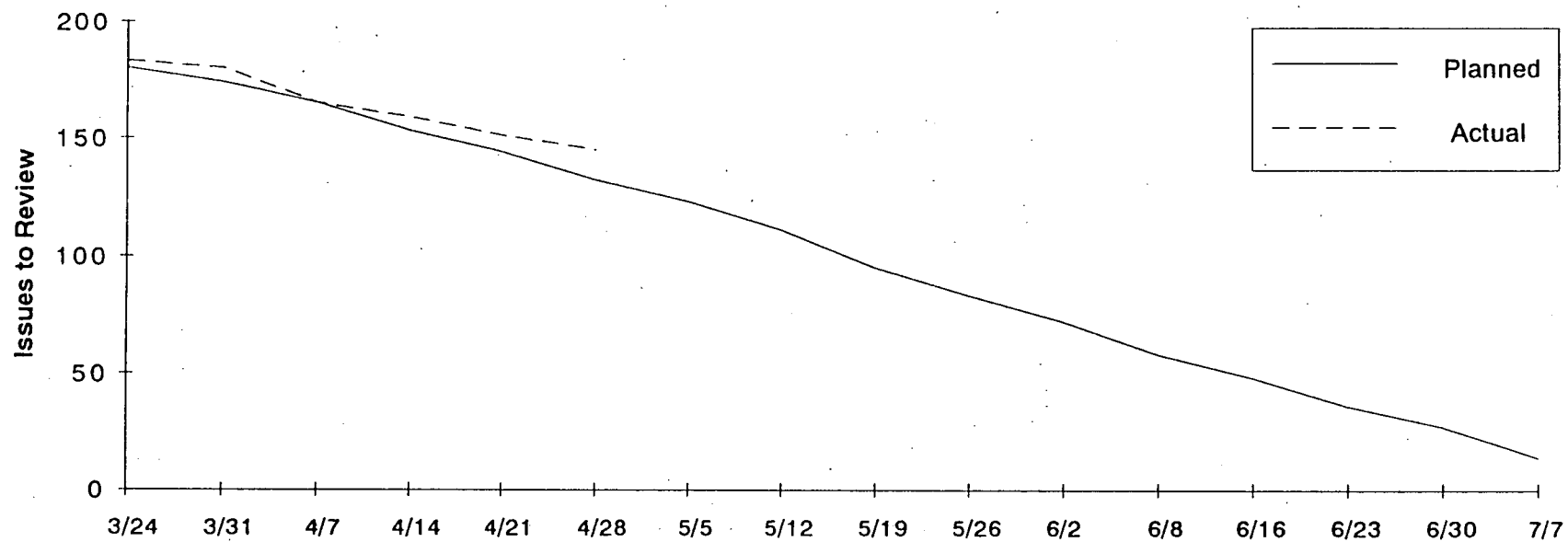
Generic Issue License Basis Review Workoff



Watts Bar Generic Issues Task - Project Plan



Generic Issue License Basis Review Workoff



DISPOSITION OF 84 OPEN LICENSING ACTIONS

A. No Longer Applicable (interim, short term, superseded)

- I.A.1.1.1 - STA - Operating shift staff - superseded by NUREG-1021 & T.S.
- I.A.1.1.2 - STA - Training and qualifications - superseded by NUREG-1021 and T.S.
- I.A.1.1.3 - Upgrading of operating staff training - superseded by NUREG-1021 and Part 55
- I.A.1.3.1 - Shift manning (overtime limit) - superseded by T.S.
- I.A.1.3.2 - Shift manning (minimum shift crew) superseded by T.S.
- I.A.2.1.1 - Applic. for SRO experience - superseded by NUREG-1021
- I.A.2.1.2 - Applicant for SRO license shall have RO license - Superseded by NUREG-1021.
- I.A.2.1.3 - Applic. for SRO or RO 3 months on shift - superseded by NUREG-1021
- I.A.2.1.4 - Training program topics - superseded by NUREG-1021
- I.A.2.1.5 - Certification for SRO or RO license application - superseded by Part 55
- I.A.3.1.1 - Increase scope of SRO/RO exams - superseded by NUREG-1021 and Part 55
- I.A.3.1.2 - Increase passing grade for exams - superseded by NUREG-1021
- I.A.3.1.3.A - Simulator exams - superseded by NUREG-1021 and Part 55
- I.C.1.1 - Short-term SBLOCA Reanalysis - superseded by IIC.3.30 A, B & C
- I.C.1.2.A - Short-term ICC reanalysis - superseded by SRP - Rev. 2, July 1981
- I.C.1.3.A - Short-term other accident reanalysis - superseded by SRP - Rev. 2, July 1981
- A-31 - RHR shutdown requirements - superseded by SRP - Rev. 2, July 1981
- II.F.1.2.A - Accident Monitoring Instrument (Noble Gas) - superseded by R.G. 1.97, Rev. 3, May 1983

- II.F.1.2.B - Accident Monitoring Instrument (iodine/part. sample),
superseded by R.G. 1.97, Rev. 3., May 1983
- II.F.1.2.C - Accident Monitoring Instrument (cont. hi rad) - superseded
by R.G. 1.97, May 1983
- II.F.1.2.D - Accident Monitoring Instrument (cont. press) - superseded
by R.G. 1.97, May 1983
- II.F.1.2.E - Accident Monitoring Instrument - (cont. H₂ Level) -
superseded by R.G. 1.97, May 1983
- II.F.1.2.F - Accident Monitoring Instrument (cont. H² Conc.) -
superseded by R.G.1.97, May 1983
- A-49 - Pressurized Thermal Shock - superseded by 10 CFR 50.61

B. Issue Found Acceptable In SER But No Subtier Conclusion

- II.B.2.1 - Shielding design
- II.B.2.2 - Shielding corrective actions to assure access
- II.B.3.1 - PASS Design Review
- II.B.3.2 - PASS Corrective Actions (N/A - applicable to operating plants)
- II.B.3.3 - PASS procedures
- II.B.4.1 - Training for Mitigating Core Damage
- II.B.4.2 - Completion of training for mitigating core damage
- II.F.2.2 - ICCI saturation meter SSER 10 accepts ICCI not specific
- II.F.2.3 - ICCI other instr. incl. RCS level accepts ICCI not specific
- II.K.3.30.A - SBLOCA model program and schedule. Model approved. Program and schedule not addressed.
- II.K.3.30.B - SBLOCA model (NOTRUMP) approved. II.K.3.30.B not addressed.
- II.K.3.30.C - SBLOCA model plant specific analysis. SSER 5 closes II.K.3.30. II.K.3.30.C not addressed.
- III.D.3.4.1 - Control room habitability. Identify and evaluate hazards. SER concludes protection acceptable.
- III.D.3.4.2 - Control room habitability. Propose modifications. SER concludes protection acceptable.

C. Approved With Conditions

II.B.1.2 - Install RCS Vents - SSER 12 approves with condition. No response.

D. Licensing Action Not Applicable Because Installation Issue Only

I.D.2.2 - SPDS console installation

II.B.2.3 - Complete shielding modifications

II.B.3.4 - PASS - Install a permanent system

II.E.1.1.2 - Complete AFW system modifications

II.F.2.4 - Install ICCI

II.D.3.4.3 - Install control room habitability modifications

E. Tech. Spec. Issue

- GSI-70 - PORV and block valve reliability - completed in SSER 6 except T.S.
- GSI-94 - Additional LTOP - Completed NRC letter dated 1/9/91 except T.S.
- GSI A-13 - Hydraulic snubber tech. specs.
- GSI A-13 - Mechanical snubber tech. specs.
- MPA A-023 - Pressure/temperature limits tech specs
- II.E.4.2.6 & MPA B-024 - Containment purging and venting
- A-09 - ATWS - SSER 9 approves except for possibility of tech. specs.

F. To Be Accomplished After OL

- I.D.2.3 - SPDS fully implement - left open in SER after 1st REFOUT
- MPA B-118 - IPE external events. NRC accepted submittal 120 days after 1st refueling
- MPA F-072 - SPDS -Response to GL 89-02 (GL 89-06). No SER on 11/1/90 submittal. SSER 6 LC43

G. Documentation Needed In SER Supplement

- I.C.1.2.B - Short-Term ICC procedures - Not completed by OI review
- I.C.1.3.B - Short-Term other accident and trans procedures - Not completed by OI review
- I.C.7.1 - Vendor review low power tests - Not mentioned by TVA or in SER or Supplement.
- I.D.2.1 - SPDS console design - Will be closed in SSER 15.....
- II.D.1.1 - Safety and Relief Valve Test Program - NRR reviewed TVA 7/19/94 submittal, and will close this issue in SSER 15.....
- II.D.1.2 - Complete testing of S&R valves - NRR review TVA 7/19/94 submittal, and will close this issue in SSER 15.....
- II.D.1.3 - Test pressurizer relief valves' block valves - NRR reviewed TVA 7/19/94 submittal, and will close this issue in SSER 15.....
- II.E.4.2.1-4 Containment - Implement diverse isolation. No staff evaluation of 2/20 and 25/85 TVA submittals although prior SER approval.
- II.F.1.1 - Accident monitoring instrument (procedures). No mention of this item in SER or supplement.
- II.K.1.10 - Operability of safety related system IEB 79-05, 06 and 08. Inspection report 85-08 closed but no NRR document. In this period of time, bulletins were issued by the Office of Inspection and Enforcement; there was no requirement for NRR to issue safety evaluation on utilities' responses. The absence of NRR document does not preclude this issue be considered closed.
- II.K.1.17* - Low pressurizer with no coincidence Rx trip item closed except for specific statement in SER.
- II.K.1.05 - No auto reset of ESF functions. SSER 3 accepts but no reference to II.K.1.05. The licensing SER was written per Standard Review Plan guidance, which includes TMI issues since 1981 (Revision 1). Since the technical information was in SSER 3 and found acceptable, II.K.1.5 is closed.
- I.D.1.2 - MPA F071 DCRDR -Results of March 1995 audit. SSER 15 will close.....

Documentation Needed In SER Supplement

- A-01 - Water Hammer - SER issued in 1982. A-01 resolved in 1984. Will update SER Appendix C in SSER 15.....
- A-11 - Reactor Vessel Material Toughness - Issue was subsumed by equivalent margin analysis, which was evaluated and closed in SSER 14. This issue is thus closed.
- A-17 - Systems interaction - generically resolved with publication of GL 89-18. Will update SER Appendix C in SSER 15 to cite GL 89-18....
- A-24 - Equipment qualification - TVA information under NRR review. Will close out in SSER 15.....
- A-47 - Safety implications of control systems - Closed by letter dated October 24, 1990 (TAC M75017); will cite that in SSER 15....
- GS175 (B078) Salem ATWS Items 3.1.1 and 3.1.2. TVA letter 11/1/83 after SSER5. Tam memo of November 2, 1994 (TAC M64345), recorded efforts to have Region II follow up on it....
- GS1 B-63 - Isolation of LP Systems from RCS - Awaiting resolution of IST; SER 14 approves IST program but may not address this GSI....
- MPA A-016 - Qualifications of QA audit personnel (GL 81-01). SSER 5, Chapter 17, clearly stated that the TVA QA program is in compliance with Reg. Guide 1.58 and 1.146, the main substance of GL 81-01. While MPA A-16 or GL 81-01 was not specifically mentioned, the substance is there in SSER 5. This issue is thus closed.
- MPA B-031 - Deep draft pump deficiencies - SER 4 approved. The staff did not respond to a subsequent TVA letter dated 1/24/92 (Find out if any of the previous letters issued by NRC amounted to safety evaluation. If yes, then we should review the 1/24/92 letter. If no, then the letter should only be addressed by Region II's closeout inspection.)
- MPA B-063 - Emergency training and procedures for station blackout events - All station blackout issues were subsumed by 10 CFR 50.63 (MPA A-44). The staff's letter dated 9/9/93 (TAC M68624) found all Watts Bar SBO fixes acceptable, with full implementation by fuel load. This issue is thus closed.
- MPA B-110 - MOV testing and surveillance - The staff has reviewed TVA's response to Supplement 2 to GL 89-10 by letter dated 9/14/90 (TAC M75736). Review of other supplements is an

ongoing generic effort.

- MPA L-208 - Thermo-Lag 330-1 (GL-92-08) - TVA's response is under review under TAC M85622. Furthermore, TVA has undertaken plant-specific design and testing of Thermo-Lag; such review is ongoing under TAC M63648.
- MPA L304 - Rod control system failures and withdrawal of RCCA (GL 93-04) - The staff found, by letter dated 12/9/94, that TVA's response to the GL is acceptable (TAC 86877); this issue is thus closed. TVA is to notify the staff in writing upon full implementation.
- MPA X802 (BL-88-02) -
Rapidly propagating fatigue crack in steam generator tubes - NRC closed out in 6/7/90 letter (TAC M67329). TVA stated, and the staff agrees, that the staff did not consider TVA's 3/1/89 letter, which proposed a more conservative approach. On such basis, this issue is considered closed.
- MPA X808 (BL-88-08) -
Thermal stress in RCS piping - Issue was originally closed by staff letter of 9/19/91 (TAC M69706). The issue was reopened by TVA's submittal of 3/29/94; review is ongoing under TAC 89581.
- MPA X809 (L-88-09) -
Thimble tube thinning - TVA response 3/11/94 fully complies with the bulletin (TAC M72693). Based on instruction from the lead project manager (memo, B. Buckley to PMs, 9/27/89), there is no need for additional action. Issue is closed.

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