Docket Nos. 50-390
and 50-391

OCT 29 1981

APPLICANT: Tennessee Valley Authority

FACILITY: Watts Bar Nuclear Plant, Units 1 and 2

SUBJECT: SUMMARY OF MEB DRAFT SER MEETING

On May 27 and 28, 1981, a meeting was held at the TVA West Towers in Knoxville, Tennessee, to resolve the open issues in the Mechanical Engineering Branch's draft Safety Evaluation Report sent by letter dated May 6, 1981, to TVA. Attendees are listed in Enclosure 1 and agenda items discussed are listed in Enclosure 2.

Items that were not resolved at the meeting will be addressed as responses to Q-2s in the FSAR.

Thomas J. Kenyon, Project Manager
Licensing Branch #4
Division of Licensing

Enclosures:
As stated

cc: See next page

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PDR ADOCK 05000390
E PDR

memo 4

OFFICE	DL:LB#4	DL:LB #4					
SURNAME	TKenyon:lb	EAdensam					
DATE	10/ /81	10/ /81					

WATTS BAR

Mr H. G. Parris
Manager of Power
Tennessee Valley Authority
500A Chestnut Street, Tower II
Chattanooga, Tennessee 37401

cc: Herbert S. Sanger, Jr., Esq.
General Counsel
Tennessee Valley Authority
400 Commerce Avenue
E11B33
Knoxville, Tennessee 37902

Mr. W. Luce
Westinghouse Electric Corporation
P.O. Box 355
Pittsburgh, Pennsylvania 15230

Mr. David Lambert
Tennessee Valley Authority
400 Chestnut Street, Tower II
Chattanooga, Tennessee 37401

Mr. J. F. Cox
Tennessee Valley Authority
400 Chestnut Street, Tower II
Chattanooga, Tennessee 37401

Resident Inspector/Watts Bar NPS
c/o U.S. Nuclear Regulatory
Commission
Rt. 2 - Box 300
Spring City, Tennessee 37831

Mr. David Ormsby
Tennessee Valley Authority
400 Chestnut Street, Tower II
Chattanooga, Tennessee 37401

ENCLOSURE 1

WATTS BAR NUCLEAR PLANT MEB SER REVIEW MEETING

NAME	COMPANY/ORGANIZATION
Vince Bianco	TVA En Des Licensing
Paul Evans	TVA En Des CEB
Bill Neely	TVA En Des CEB
Thomas Kenyon	NRC - Division of Licensing
Ed Hemminger	NRC - MEB
Bob Bosrak	NRC/DE/MEB
Habib U. Ahmed	Argonne National Laboratory
*John R. Lyons	TVA En Des WEB
Marie Hartnett	W NCOD Project
John McInnery	W NTC
Brad Maurer	W SMD
Robert E. Kelly	W SMD
Thamo C. Cruise	TVA En Des CEB
V. Dennis Lee	TVA En Des CEB
David P. Ormsby	TVA Office of Power
Talak Shah	TVA En Des CEB
Mike McAlister	TVA En Des CEB Licensing
W. L. Luce	W Licensing
J. Hugh Coleman	TVA En Des CEB
John S. G. Williams	TVA En Des CEB
Mark Beaumont	W Licensing
*R. W. Beer	W Primary Equipment - NTD
D. E. Boyle	W Primary Equipment - NTD
E. D. Mysinger	TVA En Des CEB
J. M. Martinez	W Reactor Internals Engr. - NCD
C. B. Gilmore	W Nuclear Technology Division
J. E. Cross	TVA - Nu Pwr Watts Bar Nuclear Plant
Gary L. Johnson	TVA - Nu Pwr WBNP Eng. Section
R. J. Griffin	TVA - Nu Pwr WBNP Eng. Section
G. L. Terpstra	TVA - Nu Pwr Reactor Eng. Branch
Gary L. Belew	TVA - Nu Pwr Controls & Test Branch
David C. Hafley	TVA - Nu Pwr Valves & Piping Section
Luis M. Chacon	TVA En Des SWP
T. A. Danner	EDS Nuclear

*Part-time

ENCLOSURE 2
WATTS BAR NUCLEAR PLANT
MEETING SCHEDULE
MEB SER REVIEW MEETING
MAY 28 AND 29, 1981

May 27, 1981

9:00 - 9:30	Introduction
9:30 - 10:15	Response to outstanding questions in the SER
10:15 - 10:30	Break
10:30 - 12:00	Response to outstanding questions in the SER
12:00 - 1:00	Lunch
1:00 - 2:30	Response to outstanding questions in the SER
2:30 - 2:45	Break
2:45 - 4:45	Response to outstanding questions in the SER

May 28 and 29, 1981

8:30 - 9:30	Review of previous day meeting minutes by NRC
9:30 - 10:15	Discussion and resolution of outstanding items in the minutes.
10:15 - 10:30	Break
10:30 - 12:00	Response to outstanding questions in the SER
12:00 - 1:00	Lunch
1:00 - 2:30	Response to outstanding questions in the SER
2:30 - 2:45	Break
2:45 - 4:15	Response to outstanding questions in the SER
4:15 - 4:45	Summary and general discussion

E31134.02

MEB SER REVIEW MEETING AGENDA ITEMS

Item Response	SER Reference Page	SER Reference Paragraph	Description	Responses
B1	1	3.6.2	Identify and justify exceptions to pipe break location and configuration	B. B. Neely (TVA)
B2	2	3.6A.2.1	Justify why the minimum number of breaks were not postulated in straight runs of pipe where there are no inline pipe fittings, flanges, or valves.	B. B. Neely (TVA)
B3	2	3.6.2-III.3	Justify adequacy of design of safety-related components exposed to jet impingement loads based on 20-degree expansion half angle.	B. B. Neely (TVA)
B4	2	3.6.A.2.3	Justify criterion for honeycomb material.	B. B. Neely (TVA)
N1	3	3.6B.2.1	Provide criteria for break and crack locations in the reactor coolant loops.	D. Alexander (W) J. McImerney(W) B. Maurer (W)
N2	3	3.6B.2.1	List locations where reduced break areas were postulated and provide justification.	D. Alexander (W) J. McImerney (W) B. Maurer (W)
N3	3	3.6B.2.3	Provide amendment to justify dimensionless jet thrust coefficient.	D. Alexander (W) J. McImerney (W) B. Maurer (W)
N4	3	3.6B.2.4	Provide FSAR section for guard assembly design criteria.	D. Alexander (W) J. McImerney (W) B. Maurer (W)

Item	SER Reference Page	SER Reference Paragraph	Description	Response
N5	3	3.6.B.2.5	Provide material to be submitted at the operating license review.	D. Alexander (W) J. McImerney (W) B. Maurer (W)
N6/B5	4	3.7.3	Provide criteria employed to establish that an adequate number of lumped masses or degrees of freedom have been used in the analysis of seismic systems and subsystems.	D. Alexander (W) B. Maurer (W) R. Kelley (W) V. D. Lee (TVA)
N7	5	3.7.3	Verify conservatism of procedure for combining modal responses.	D. Alexander (W) B. Maurer (W) R. Kelley (W)
B6	5	3.7.3	Justify procedure for combining spatial components.	V. D. Lee (TVA)
N8/B7	6	3.7.3	Specify where constant vertical load factors were used.	D. Alexander (W) B. Maurer (W) R. Kelley (W) V. D. Lee (TVA)
N9	6	3.7.3	Provide summary of the results of the seismic analyses performed for reactor internals.	M. Beaumont (W) R. Beer (W) D. Boile (W) C. Gilmore (W)
B8	6	3.9.1	Provide basis for number of masses in seismic modeling of piping and and components.	V. D. Lee (TVA) T. Danner (EDS)
N10/B9	6(a)	3.9.1	Provide summary of the stress ranges just below or above a value of $3S_m$.	D. Alexander (W) B. Maurer (W) R. Kelley (W) V. D. Lee (TVA) T. Danner (EDS)

Item	SER Reference Page	SER Reference Paragraph	Description	Response
B10	6(c)	3.9.2.1	Program to document examination and testing of snubbers.	D. Hofley (TVA)
N11/B11	6(d)	3.9.2.2	Dynamic qualification of mechanical equipment.	D. Alexander (W) B. Maurer (W) R. Kelley (W) J. S. G. Williams (TVA)
N12/B12	8(b)	3.9.3.1	Discuss load combination methods and identify stress valves that differ from allowable limits.	D. Alexander (W) B. Maurer (W) R. Kelley (W) V. D. Lee (TVA) T. Danner (EDS)
B13	8(b)	3.9.3.1	Justify SRSS method used for combination of OBE and SRV loads.	L. D. Leee (TVA) T. Danner (EDS)
N13/B14	9	3.9.3.2	Pump and valve operability assurance program.	D. Alexander (W) B. Maurer (W) R. Kelley (W) J. S. G. Williams (TVA)
N14	11	3.9.3.4	Justify allowable buckling load criterion.	D. Alexander (W) B. Maurer (W) R. Kelley (W)
N15/B15	11	3.9.3.4	Specify criteria for allowable buckling loads on Class 2 and Class 3 supports.	D. Alexander (W) B. Mauarer (W) R. Kelley (W) E. D. Mysinger (TVA)
B16	11	3.9.3.4	Justify statement that jet forces need not be considered in analyzing the faulted condition.	B. B. Neely (TVA) V. D. Lee (TVA)

Item	SER Reference Page	SER Reference Paragraph	Description	Response
N16	13	3.9.5	Justify deviations from subsection NG.	M. Beaumont (W) R. Beer (W) D. Boile (W) C. Gilmore (W)
N17	13	3.9.5	Provide summary of the maximum calculated total stress, deformation and cumulative usage factor.	M. Beaumont (W) R. Beer (W) D. Boile (W) C. Gilmore (W)
B17	15	3.9.6	Program for preservice and inservice testing of pumps and valves as requested by Q112.40.	G. L. Belew (TVA)
B18	15	3.9.6	Leak testing of interface valves.	G. Terpstra (TVA)

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OCT 30 1981
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MEETING SUMMARY DISTRIBUTION

OCT 29 1981

Docket File 50-390
NRC/PDR
Local PDR
TIC/NSIC/TERA
LB #4 r/f
H. Denton
E. Case
D. Eisenhut
R. Purple
B. J. Youngblood
A. Schwencer
F. Miraglia
J. Miller
G. Lainas
R. Vollmer
J. P. Knight
R. Bosnak
F. Schauer
R. E. Jackson
Attorney, OELD
OELD
OIE (3)
ACRS (10)
R. Tedesco
N. Hughes

NRC Participants:

E. Hemminger
B. Bosrak
T. J. Kenyon

bcc: Applicant & Service List

G. Lear
S. Pawlicki
V. Benaroya
Z. Rosztoczy
W. Haass
D. Muller
R. Ballard
W. Regan
R. Mattson
P. Check
O. Parr
F. Rosa
W. Butler
W. Kreger
R. Houston
T. Murphy
L. Rubenstein
T. Speis
W. Johnston
S. Hanauer
W. Gammill
T. Murley
F. Schroeder
D. Skovholt
M. Ernst
K. Kniel
G. Knighton
A. Thadani
D. Tondi
J. Kramer
D. Vassallo
P. Collins
D. Ziemann
A. Toalston
V. Moore
M. Srinivasan
Chief, SPEB:DST

E. Adensam
Project Manager T. J. Kenyon
Licensing Assistant M. Duncan