



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

PDR

JUN 26 1980

MEMORANDUM FOR: R. J. Bosnak, Chief, Mechanical Engineering Branch, DE
THRU: F. C. Cherny, Section B Leader, Mechanical Engineering Branch, DE
FROM: E. G. Hemminger, Mechanical Engineering Branch, DE
SUBJECT: NRC - BWR OWNERS GROUP MEETING FOR SAFETY/RELIEF VALVE TESTING

A meeting was held on June 12, 1980 with the BWR Owners Group to discuss their plans for satisfying safety and relief valve test requirements as specified by NUREG-0578 Section 2.1.2.

The BWR Owners Group presented the following:

- low pressure liquid testing of SRV's and PORV's to simulate alternate cooldown mode of operation will be performed. One of each type of SRV and PORV representing all those in service or proposed for future BWR service will be tested.
- The need for high pressure liquid and two phase flow testing is being evaluated, but the feeling is that BWR's have a very low probability for this type flow through SRV's and that therefore this type testing should not be required.
- Should high pressure liquid and two phase testing be required, it could be performed within the July 1981 time frame, but schedule would be tight.
- High pressure steam operability of BWR SRV's and PORV's was discussed in some detail. The dual function safety and relief and single function power operated relief valves routinely lift in response to system transients (6 per BWR reactor year). There have been 53 inadvertent blowdowns due to these valves not closing properly after such lifts. The reliability of these valves has been improved considerably through a program of valve redesign and increased maintenance. Further improvement is also being sought through a challenge reduction program.

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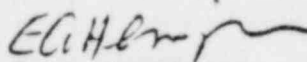
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The following comments were provided by the staff to the BWR Owners Group.

- With regard to high pressure liquid and two phase flow testing, it was requested that the November 14, 1980 staff position be addressed by the BWR Owners Group. This item remains outstanding and must be resolved in a timely manner such that if additional testing is required, it can be included in the present program for completion by the required July 1981 date.
- The low pressure liquid test conditions should qualify the valves for low pressure liquid operation as in alternate cooldown mode of operation or inadvertant overfilling of the vessel due to low pressure ECCS operation.
- The following questions with regard to the proposed test facility were raised however, and must be resolved.
 - a) Will the piping adequately represent plant specific piping with regard to valve operability? The test loop piping should bracket the plant specific back pressures that SRV's will be subjected to.
 - b) Will the measured loads and test data be sufficient to do plant specific evaluations of piping and support loads?

At the end of the meeting it was agreed that the chairman of the Owners Goup would advise F. Cherny as to the earliest possible date for the next meeting to discuss a more detailed and formal submittal of their program and respond to the above staff questions. The chairman of the Owners Group has subsequently advised that mid-August is the earliest possible date for such a follow-up meeting.



E. G. Hemminger
Mechanical Engineering Branch
Division of Engineering

- Enclosures:
- A. List of Meeting Attendees
 - B. BWR Owners Group Agenda and Meeting Notes
 - C. Response to ACRS Questions for BWR Safety and Relief Valve Test Program

cc: See next page.

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cc: R. Mattson
D. Eisenhut
R. Vollmer
J. Knight
V. Noonan
M. D. Stolzenberg
D. M. Verrelli
F. C. Cherny
E. J. Brown
K. R. Wichman
J. A. Olshinski
T. Telford
R. J. Kiessel
J. R. Fair
J. H. Hannon
H. A. Wilber
C. H. Hofmayer
R. LaGrange
ACRS (21)
PDR
GIB R/F
GE Owners Group Representatives (Enclosure A Only) (18)

Enclosure A

Meeting Attendees

S. J. Stark	GE - S&LO
M. D. Stolzenberg	NRC/RES
J. A. Hunter	EG&G, Idaho
E. G. Hemminger	NRC/MEB
D. M. Verrelli	NRC/DOL
F. C. Cherny	NRC/MEB
W. L. Bohner	Penna. Power & Light Co.
J. L. Smith	Long Island Lighting Co.
M. F. Rulli	Cincinnati Gas & Electric
Earl J. Brown	NRC/AEOD
Elvis Hollins	Tenn. Valley Authority
Dave Waters	Carolina Power & Light
Bruce Palagi	Commonwealth Edison Co.
R. C. Weir	Tenn. Valley Authority
L. R. Huang	GE, San Jose
K. R. Wichman	NRC/ORAB
J. A. Olshinski	NRC/DOL
Tom Telford	NRC/DOL
John Stampelos	ACRS
R. J. Kiessel	NRC/IE/RCI
J. R. Fair	NRC/DOL
T. O. Vandeventer	PECo
J. F. Hosler	GE Lic.
G. V. Kumar	GE Servicee
T. W. Overlid	Northern States Power
D. F. Lehnert	Detroit Edison
C. B. Johnson	G.E.
D. E. Naaf	G.E.
J. N. Hannon	NRC
Tom Altenbach	LLL
Werner Stein	LLL
Barry Bouman	LLL
Harold I. Gregg	NRC/SCSB/DES
Howard A. Wilber	NRC/I&E
C. H. Hofmayer	NRC/DE/EQB
R. LaGrange	NRC/DE/EQB

Enclosure B

BWR Owners Group Agenda and Meeting Notes

BWR OWNERS GROUP

NRC MEETING

JUNE 12, 1980

AGENDA

0900	INTRODUCTION	NRC
0915	REVIEW OF BWR OWNERS' GROUP RESPONSE TO REQ. 2.1.2	OWNER'S GROUP
0930	LOW PRESSURE LIQUID TESTING	GE
1000	BWR SRV CLOSURE RELIABILITY	GE
1100	SRV CHALLENGE REDUCTION PROGRAM	GE
1115	BWR SRV OPENING PRESSURE VARIATION	GE
1215	SUMMARY	OWNER'S GROUP
1230	DISCUSSION	ALL
1315	CONCLUSIONS	NRC/OWNER'S GROUP
1330	MEETING CLOSE	