

JUL 12 1985

MEMORANDUM FOR: Hugh L. Thompson, Jr., Director  
Division of Licensing

FROM: Dennis M. Crutchfield, Assistant Director  
for Safety Assessment, DL

SUBJECT: SUMMARY OF THE OPERATING REACTORS EVENTS  
MEETING ON JULY 1, 1985 - MEETING 85-11

On July 1, 1985, an Operating Reactor Events meeting (85-11) was held to brief the Office Director, the Division Directors and their representatives on events which occurred since our last meeting on June 12, 1985. The list of attendees is included as Enclosure 1.

The events discussed and the significant elements of these events are presented in Enclosure 2. In addition, the assignment of follow-up review responsibility was discussed. The assignments made during this meeting and the status of previous assignments are presented in Enclosure 3.

Completion dates have been assigned for items in Enclosure 3. Each assignee should review Enclosure 3 with regard to their respective responsibilities and advise ORAB if the target completion date cannot be met. If an assignee has any questions, please contact D. Tarnoff, x29526.

15/

Dennis M. Crutchfield, Assistant Director  
for Safety Assessment, DL

Enclosures:  
As Stated

cc w/encl:  
See next page

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ORAB Members

ORAB:DL  
DTarnoff:dm  
7/8/85

SL:ORAB:DL  
RWessman  
7/8/85

8:ORAB:DL  
GHolahan  
7/9/85

AD:DL  
DCrutchfield  
7/12/85

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PDR ADDOCK 05000219  
S PDR

IDR-5-1  
OPERATING  
EXPERIENCE

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*For*  
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DTarnoff:dm  
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*RLW*  
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RWessman  
7/8/85

*GH*  
SL:ORAB:DL  
GHolahan  
7/9/85

*DC*  
AD:DCrutchfield  
7/12/85

cc: H. Denton  
R. Bernero  
J. Knight  
T. Speis  
C. Heltemes  
T. Novak  
W. Russell  
J. Taylor  
E. Jordan  
F. Rowsome  
W. Minners  
L. Shao  
T. Ippolito  
S. Varga  
J. Zwolinski  
E. Sullivan  
D. Beckham  
G. Edison  
K. Seyfrit  
T. Murley, R-I  
J. Nelson Grace, R-II  
J. Kepper, R-III  
R. D. Martin, R-IV  
J. B. Martin, R-V  
R. Starostecki, R-I  
R. Walker, R-II  
C. Norelius, R-III  
R. Denise, R-IV  
D. Kirsch, R-V  
G. Lainas  
P. Baranowski, RES  
E. Rossi, IE  
R. Hernan  
F. Schroeder  
G. Knighton  
D. Silver  
J. Lyons  
D. Brinkman  
E. Weiss  
R. Baer  
A. DeAgazio  
J. Stolz  
D. Powell  
E. Butcher  
S. Miner  
A. Bournia  
G. Rivenbark  
G. Lanik

ENCLOSURE 1

LIST OF ATTENDEES

OPERATING REACTORS EVENTS BRIEFING (85-11)

JULY 1, 1985

E. Weiss, IE:DEPER	R. J. Wright, DE
T. S. Rotella, ORB#5	F. Rosa, NRR/ICSB
W. Minners, DST/SPEB	R. Wayne Houston, DSI
F. Schroeder, DST	D. Eisenhut, DD/NRR
S. Varga, DL	H. Thompson, D/DL
G. Rivenbark, DL	T. P. Speis, DST
R. Karsch, DL	R. Woodruff, IE/DEPER
J. Stone, IE:VPB	R. Baer, IE/DEPER
H. Booher, DHFS	G. Lanik, IE/DEPER
R. Hernan, NRR/PPAS	G. Lainas, DL
D. R. Powell, IE/DEPER/EAB	D. Crutchfield, DL
J. E. Lyons, DL	J. Zwolinski, DL
S. Black, DL	J. Donohew, Jr., DL
R. Singh, IE/EAB	F. Miraglia, DL
J. Stolz, DL	R. Bernero, DL
F. Manning, RES/DRAO	G. Holahan, DL
H. Ornstein, AEOD	R. Wessman, DL
S. Rubin, AEOD	
M. Chiramal, AEOD	
K. Seyfrit, AEOD	
A. Bournia, LB#2/DL	
J. P. Knight, DE	

ENCLOSURE 2

OPERATING REACTOR EVENTS BRIEFING (85-11)

JULY 1, 1985

DAVIS BESSE UNIT 1 - LOSS OF MAIN FEEDWATER AND AUXILIARY

FEEDWATER - UPDATE OF JUNE 9, 1985 EVENT

OYSTER CREEK - UNCONTROLLED LEAKAGE OF REACTOR COOLANT

OUTSIDE CONTAINMENT

RANCHO SECO - RCS HIGH POINT VENT LEAK

RANCHO SECO - STARTUP PROBLEMS SUMMARY

LASALLE UNIT 2 - EQ MODIFICATION PROBLEMS AND LOSS  
OF ALL ECCS

DAVIS-BESSE 1 - LOSS OF MAIN FEEDWATER  
AND AUXILIARY FEEDWATER  
UPDATE OF JUNE 9, 1985 EVENT  
(A. DeAGAZIO) NRR

- INCIDENT INVESTIGATION TEAM (IIT) HAS:
  - INTERVIEWED LICENSEE PERSONNEL
  - ESTABLISHED A TENTATIVE SEQUENCE OF EVENTS
  - ESTABLISHED LIST OF "QUARANTINED" EQUIPMENT
  - ESTABLISHED TROUBLESHOOTING GUIDELINES
- IIT IS PREPARING THEIR REPORT
- LICENSEE HAS STARTED "TROUBLESHOOTING" EQUIPMENT FAILURES AND MALFUNCTIONS
- RESPONSES TO CONGRESSMAN MARKEY'S QUESTIONS HAVE BEEN PREPARED
- REGION MONITORING ONSITE ACTIVITIES
- POSSIBLE SYSTEM/EQUIPMENT PROBLEMS IDENTIFIED
  - SFRCS MANUAL TRIP ON LOW STEAM PRESSURE/VICE LOW S/G LEVEL
  - TERRY TURBINE PERFORMANCE
  - VALVE TORQUE SWITCHES
  - FUSES PULLED ON STARTUP FW PUMP

OYSTER CREEK - UNCONTROLLED LEAKAGE OF REACTOR COOLANT

OUTSIDE CONTAINMENT

JUNE 12, 1985 (D. POWELL, IE)

- WITH REACTOR AT 99% POWER, FAILURE OF THE ELECTRIC PRESSURE REGULATOR CAUSED A TURBINE BYPASS VALVE TO OPEN RESULTING IN A REACTOR PRESSURE DECREASE, FOLLOWED BY MSIV CLOSURE AND REACTOR SCRAM.
- SCRAM DISCHARGE VOLUME DRAIN VALVES FAILED TO FULLY SHUT/ SEAT CAUSING REACTOR COOLANT TO BE DISCHARGED TO THE REACTOR BUILDING DRAIN TANK.
- RELEASE OF STEAM FROM FLOOR DRAINS AND PAINT BLISTERING ON HOT PIPE CAUSES PORTION OF REACTOR BUILDING DELUGE SYSTEM TO ACTIVATE
- SCRAM SIGNAL NOT RESET FOR 36 MIN ALLOWING CONTINUOUS REACTOR COOLANT FLOW TO THE DRAIN TANK. CAUSE WAS 600 PSI INTERLOCK ON MSIV CLOSURE/LOSS OF CONDENSER VACUUM.
- SAFETY SIGNIFICANCE - (1) LOCA OUTSIDE CONTAINMENT, (2) POTENTIAL EQUIPMENT MALFUNCTION DUE TO FIRE DELUGE SYSTEM, (3) EXCESSIVE CRD SEAL TEMPERATURES.
- CAUSE-VALVE SPRING ON VALVE V15-134 (VELAN) VALVE UNDERSIZED
  - VALVE V15-121 (VALTAK) STROKE DISTANCE INSUFFICIENT TO TIGHTLY SEAT THE VALVE. (1/8" OPENING)
  - IMPROPER POST-INSTALLATION TESTING OF VALVES
- CORRECTIVE ACTIONS - REPLACED 400 LB SPRING WITH 1100LB SPRING, ADJUSTED VALVE STROKE DISTANCE CHECKED CRD SEALS FOR DAMAGE, CHECKED EQUIPMENT, NO DAMAGE FOUND.
- NRC FOLLOWUP ACTION - IE NOTICE IN PREPARATION.

RANCHO SECO - RCS HIGH POINT VENT LEAK

JUNE 23, 1985 (G. RIVENBARK, NRR)

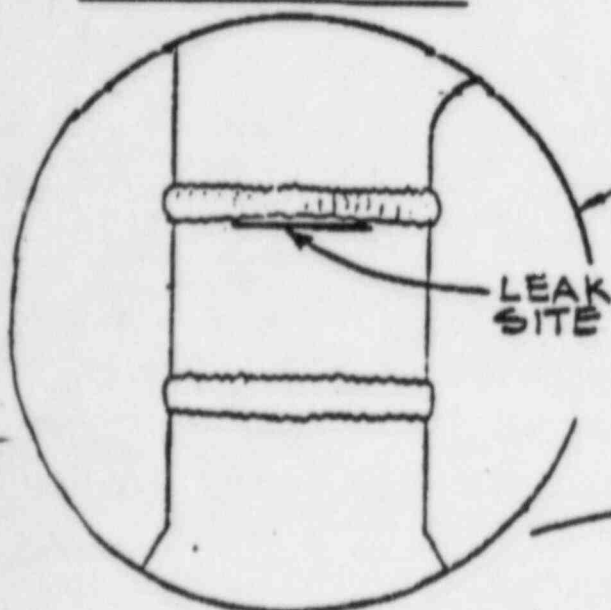
- PLANT IN HOT STANDBY RESTARTING FROM A REFUELING OUTAGE.
- 20 GPM NON-ISOLATABLE PRIMARY COOLANT LEAK ON HIGH POINT VENT ON B STEAM GENERATOR HOT LEG
- TMI MODIFICATION INSTALLED 1983 REFUELING OUTAGE.
- 120° THRU WALL LEAK AT WELD
- CAUSE APPEARS TO BE MISSING SUPPORTS AND FATIGUE FAILURE
- LICENSEE ACTIONS:
  - STRESS ANALYSIS TO IDENTIFY OVERSTRESSED AREAS (BOTH HOT LEG VENTS)
  - REPAIR SYSTEMS
  - INSTALL SUPPORTS
  - INSPECT AND EVALUATE OTHER SYSTEMS
- REGION V CONSIDERING ENFORCEMENT ACTION



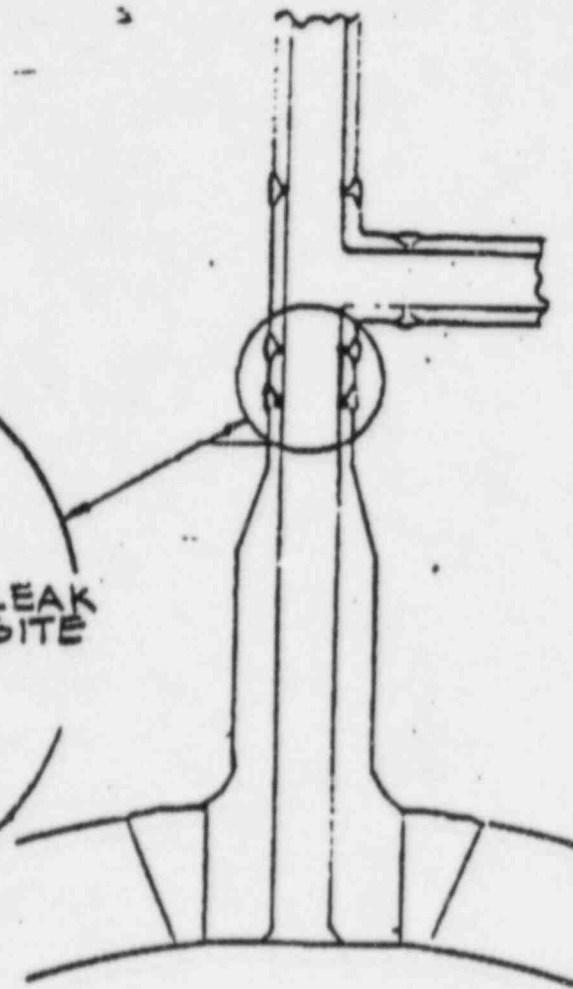
FROM N<sub>2</sub> SUPPLY,  
TO MANUAL VENT

TO HIGH-POINT  
VENT VALVES

WELD DETAIL



SCALE: FULL



RCS HIGH-POINT VENT  
STEAM GENERATOR E-205B  
SCALE: 1/4" = 1"

## RANCHO SECO - STARTUP PROBLEMS SUMMARY

(G. RIVENBARK, NRR)

- MARCH 15, 1985 SHUTDOWN FOR 90 DAY REFUELING OUTAGE
- JUNE 1, 1985 EDG CONTROL CIRCUIT PROBLEM - DESIGN ERROR
- PRESENTED AT JULY 12, 1985 BRIEFING
- JUNE 5, 1985 REACTOR TRIP BREAKER FAILURE
- PRESENTED AT JULY 12, 1985 BRIEFING
- JUNE 11, 1985 NUCLEAR SERVICE COOLING WATER PUMP  
FEEDER BREAKER TRIPPED  
ALSO TRIPPED JUNE 12 AND 13, 1985  
REPLACED BREAKER
- JUNE 12, 1985 200 GALLON WATER LEAK INTO REACTOR  
BUILDING. RELIEF VALVE ON LET DOWN  
SYSTEM LIFTED
- REPAIRED RELIEF VALVE
- JUNE 14, 1985 REACTOR CRITICAL
- JUNE 18, 1985 SHUT DOWN FROM 15% POWER  
OIL BLOCKAGE IN MAIN TURBINE LUBE OIL  
SYSTEM
- JUNE 23, 1985 NON ISOLATABLE LEAK IN HIGH POINT  
VENT IN B STEAM GENERATOR HOT LEG
- CURRENT PLANS FOR STARTUP UNCERTAIN

LA SALLE UNIT 2 - EQ MODIFICATION PROBLEMS AND LOSS  
OF ALL ECCS 6/5 - 6/10, A. BOURNIA (NRR)

- PROBLEM - NO ECCS AVAILABLE FOR FIVE DAYS AS A RESULT OF BREAKDOWN IN MANAGEMENT CONTROL AND QA DURING INSTALLATION OF RV LEVEL SWITCHES AS PART OF EQ UPGRADE.
- EVENT OCCURRED WHILE CHANGING SWITCHES FROM NON-QUALIFIED TO QUALIFIED. CAUSED BY:
  - ERROR IN DESIGN DRAWINGS
  - INADEQUATE INSPECTION
  - INADEQUATE TESTING
- SAFETY SIGNIFICANCE - PLANT WAS IN COLD SHUTDOWN
  - REPEAT OCCURRENCE OF INADEQUATE MODIFICATION CONTROL
- REPEAT OCCURRENCE OF INADEQUATE MODIFICATION CONTROL
- PROBLEM DISCOVERED BY LICENSEE DURING UNRELATED ACTIVITY IN PREPARATION FOR LEAK RATE TESTING.
- CORRECTIVE ACTIONS - REGION III IS AWAITING THE LICENSEE'S OFFICIAL RESPONSE REGARDING CORRECTIVE ACTIONS.
- ENFORCEMENT MEETING WAS HELD ON JUNE 24, 1985 WITH THE LICENSEE. POTENTIAL ESCALATED ENFORCEMENT BEING CONSIDERED.
- THESE CHANGES SCHEDULED FOR UNIT 1 IN SEPTEMBER 1985
- IE INVESTIGATING TO DETERMINE IF GENERIC ERROR ON DESIGN DRAWINGS FROM G.E.

## ENCLOSURE 3

## OPERATING REACTOR EVENTS MEETING FOLLOWUP ITEMS

## AS OF MEETING 85-11

MEETING NO./DATE	FACILITY/ EVENT	RESPONSIBLE DIV./INDIVIDUAL	TASK DESCRIPTION	COMPLETION DATE	CLOSED BY: DOCUMENT/ MEETING, ETC.	COMMENTS
8/7/84	Salem 2-Stuck open relief valve/ECCS actuation July 25, 1984	DL-D. Fischer	Determine if Velan (PORV) block valve qualified to close against 7/25/84 steam blowdown transient at Salem 2. Check EPRI Test Program results.	7/30/85		AEOD report in preparation will address that issue.
4/10/84	Rancho Seco-Main generator hydrogen explosion - partial loss of NNI March 19, 1984	DL-P. Kadambi	Summarize B&W licensing responses to questions subsequent to Rancho Seco loss of NNI event and present at follow-up OR Events Briefing.	7/30/85		Staff review of B&W Owners Group Submittal of 1/11/85 is in progress.
1/3/85	Crystal River 3 Temporary loss of NNI December 28, 1984	ICSB-F. Rosa	Consider need for additional requirements on alarms/annunciators	7/30/85		ICSB is considering Oconee 1 loss of annuncia. (4/25/84) in analysis of requirements.
5/7/85	Catawba 2-Both RHR trains overpressurized April 19, 1985	DL-K. Jabbour	Follow-up briefing after evaluation of overpress. effects on various systems and corrective actions.	8/1/85		PM is awaiting licensee's submittal.

MEETING NO./DATE	FACILITY/ EVENT	RESPONSIBLE DIV./INDIVIDUAL	TASK DESCRIPTION	COMPLETION DATE	CLOSED BY: DOCUMENT/ MEETING, ETC.	COMMENTS
5/7/85	Catawba 2-Volume control tank failure April 20, 1985	DL-K. Jabbour	Schedule meeting with R-II and DHFS (with licensee if appropriate) to evaluate operator activities.	8/1/85	Closed. Telecon of 6/26/85 with DHFS and R-II.	
5/7/85	Salem 2-Pressure/ temperature transient April 13, 1985	DL-S. Varga	Discuss with R-I the management aspects of recent events at Salem.	7/7/85	Closed. S. Varga discussed w/R-I, which plans to monitor via routine SALP program.	
5/7/85	Millstone 2-Eddy current test of steam generator tubes, April 10, 1985	ORAB/DE E. Murphy/ H. Conrad	Review SCOG letter on eddy current testing issue, in view of Millstone 2 findings.	8/1/85		MTEB is reviewing EPRI 5/13/85 letter and will address follow-up issue.
5/30/85	Hatch 1-Stuck Open Safety Relief Valve	ORAB-M. Caruso	Will develop TIA to coordinate IE Notice and further investigative efforts.	7/30/85		In progress.

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85-10 6/12/85	Davis Besse-Loss of all main feedwater and auxiliary feedwater June 9, 1985	DSI-C. Parr DL-A. DeAgazio	Re-examine staff review of acceptability/diversity of Davis Besse AFW system.	8/30/85		In progress
85-10 6/12/85	Davis Besse-Loss of all main feedwater and auxiliary feedwater June 9, 1985	DST-T. Speis DL-D. DeAgazio	Determine status of implementation of TMI items, generic issues, MPAs at Davis Besse that may be related to 6/9/85 event.	8/30/85	Status of implement. of TMI issues closed - H. Thompson to H. Denton memo of 6/12/85.	Remaining two issues (generic issues & MPAs in progress.
85-10 6/12/84	Davis Besse-Loss of all main feedwater and auxiliary feedwater June 9, 1985	DL-A. DeAgazio	Provide H. Denton with (1) comparison between Davis Besse 1 and TMI-1 of TMI action plan implementation status; (2) comparison of MFW and AFW systems at Davis Besse 1 and TMI-1; (3) status of startup FW pump upgrade.	8/30/85		In progress.



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85-11 7/1/85	Oyster Creek-Uncontrolled leakage of reactor coolant outside containment June 12, 1985	DST-M. Minners has lead; DE-F. Cherny will assist	Pressure isolation valve testing requirement to be addressed in CRGP briefing.	8/30/85		
85-11 7/1/85	Oyster Creek-Uncontrolled leakage of reactor coolant outside containment June 12, 1985	DHFS-H. Booher	Determine efficacy of EPG/operator action and excessive response time.	8/30/85		
85-11 7/1/85	Rancho Seco-RCS high point vent leak, June 23, 1985	DL-S. Miner	Determine status of IEB 79-14.	8/30/85		
85-11 7/1/85	Rancho Seco-Startup problems-June 1985	DL-S. Miner	Schedule conference call with Region and licensee prior to restart to determine plant readiness for operations.	7/12/85		
85-11 7/1/85	LaSalle 2-EQ modification problems and loss of all ECCS June 5-10, 1985	IE-R. Baer	Consider issuance of IE Notice.	8/30/85		