

CERTIFIED

ACRS-2311

PDR 062185-

CERTIFIED COPY

DATE ISSUED: May 23, 1985

SUMMARY/MINUTES OF THE SUBCOMMITTEE MEETING ON
REACTOR OPERATIONS
MAY 6, 1985
WASHINGTON, D.C.

A meeting was held by the ACRS Subcommittee on Reactor Operations. The purpose of the meeting was to discuss recent operating occurrences at various nuclear reactors. Notice of the meeting was published in the Federal Register on April 23, 1985 (Attachment A). The schedule of items covered in the meeting is in Attachment B. The list of attendees is in Attachment C. A list of handouts is in Attachment D. The handouts are filed with the office copy. H. Alderman was the ACRS Staff Member for this meeting.

Acting Chairman, Mr. C. Michelson convened the meeting at 1:15 p.m.

Principal Attendees:

ACRS Members

C. Michelson, Acting Chairman
C. Wylie
G. Reed
D. Ward (Part time)

ACRS Staff

H. Alderman
R. K. Major (Part time)

NRC Staff

C. E. Rossi	R. Hernan
M. Wegner	J. Dyer
J. Monroe	P. Wagner
P. Burnett	C. Hehl
J. Collins	T. Colburn
C. Berlinger	V. Hodge
J. T. Beard	P. Cartland

Major Significant Events Included:

M. G. Wegner, EGCB, presented recent HPCI/RCIC problems. Ms. Wegner presented a statistical breakdown of recent HPCI/RCIC events as culled from operating reports. The facilities having the greatest number of

CERTIFIED

8507110625 850523
PDR ACRS
2311

PDR

HPCI problems were Duane Arnold, Hatch 1, Limerick and Peach Bottom 3. The facilities having the greatest number of RCIC problems were Grand Gulf 1, Hatch 1, Hatch 2, and LaSalle 1. The problems seemed to be maintenance and test related.

Ms. Wegner, EGCB, also discussed chemical cleaning of the secondary side of the steam generator at Millstone 2. Millstone 2 has had problems with tube degradation based upon sludge accumulation. Approximately 13 inches of sludge has been built up. Hydrolancing didn't have any effect on sludge cleanup, so chemical cleaning was used. Since the chemical cleaning the number of tubes requiring plugging and sleeves has increased. The staff is trying to determine whether the corrosion problem has increased with the chemical cleaning.

Mr. J. Deyer, I&E presented a discussion of Station Battery problems. There have been an increasing number of inspections where the station batteries have been found not up to standards. Many cases involved failure to demonstrate operability. Specific gravity has been measured without temperature compensation. Battery capacity tests were performed with invalid procedures. Batteries were found in degraded condition. The resultant actions were: Continued inspections by the regions, an Inspection and Enforcement Notice has been sent to the licensees. I&E has sent a memo to NRR expressing their concerns on the issues.

W. J. Collins, I&E, presented a discussion regarding weld leaks in the ultimate heat sink piping at Palo Verde.

During the plant preoperational testing on March 1, 1985, a leaking weld in the essential spray pond was identified. This piping is type 316L stainless steel, schedule 10, with type 308L weld filler metal. The leaking weld is located in an eight inch diameter pipe section.

Two sections of 14 diameter pipe welds were removed for evaluation. The licensee has concluded that the weld degradation is a result of micro-biological influenced corrosion.

Mr. T. Colburn discussed the heater drain pump discharge pipe rupture at Trojan.

This incident occurred on March 9, 1985. The pipe is 14 inches and normally at 350°F. and 450 psi. The pipe was immediately downstream of a globe valve. The pipe is A106B carbon steel.

The licensee has established the cause of the rupture as erosion of the pipe. There were high velocities in this region of the order of 20-40 feet per second. I&E will issue an information notice regarding this and similar piping problems.

C. H. Berlinger discussed the Grand Gulf 1 malfunction of the TDI Emergency Diesel Generators.

On March 11, 1985 during EDG surveillance testing, the diesel failed to start. The failure of the air start valve was traced to the failure of Cloy William Hager air start header check valve. The air start header check valve is used on TDI engines which employs a headed air start distribution system to prevent total loss of starting air of the air supply line ruptures.

The cause of failure is attributed to high cycle fatigue due to valve disk vibration during engine start testing.

The corrective action has been to replace all valves with mission DUO - check valves as per TDI recommendation, and to inform TDI owners group at the March Executive Committee meeting.

Mr. V. Hodge, I&E, discussed the failure of the air check valves to seat, at Byron on March 14, 1985.

These air check valves are part of the air operated hydraulic MSIV system. A leaking air check valve prevented MSIV closure on March 14, 1985. Nearly all the air check valves failed on slow depressurization but worked fine on fast depressurization. The licensee replaced the

failed valves, tested the system o.k. but got more failures on April 12, 1985.

The licensee replaced all the air check valves with valves of improved design. The new valves have a guided plug on stem, softer material on seat, greater seating force, better machining, and a spherical puppet surface.

The licensee is doing bi-weekly surveillance.

I&E issued an Information Notice 85-35 on April 30, 1985.

Mr. J. T. Beard, ORAB, discussed changes in Emergency Diesel Generator Testing at North Anna.

The EDG's at North Anna have had a long history of failure to meet the testing requirements. The testing requirements have been changed and the EDG's performance has improved considerably.

Changes in the conduct of testing include:

- Warmup prior to test
- Delete fast start from monthly test
- Delete fast load from monthly test
- Combine 1 hour load run with test start

Changes in how often tests are conducted include:

- Change reliability basis from 0.99 per unit to 0.95 per EDG.
- Delete 14 days and 3 days test frequencies.
- Inverse testing (monthly to weekly) if:
 - o Greater or equal to 5 failures in 100 tests
 - o Greater or equal to 2 failures in 20 tests

P. Burnett discussed the Summer premature criticality.

During a startup a trainee was operating the reactor controls at Summer. Evidently he wasn't watching the instrument displays and the reactor reached criticality sooner than expected. A senior operator was with the trainee but he didn't detect the premature criticality. Further details regarding this incident will be provided at the full Committee on May 10, 1985.

At the conclusion of the formal presentations the following events were briefly mentioned on an informal basis:

- Grand Gulf 1 MSIV's fail to close (update)
- Kewaunee Spontaneous start of reactor coolant pump
- Browns Ferry 2 non-Radiological Fatality (crane hook)
- Millstone 3 flooding of ESF room
- Byron 2 - Solvent Fire in HVAC Humidifier
- Wolf Creek - pressure relief valve failure.

Following the presentation, the subcommittee decided the following events should be presented to the full Committee.

- #2 Millstone Unit 2 S/6 tube defects
- #5 Summer premature criticality
- #6 Palo Verde 2 weld leaks in VHS piping.
- #10 North Anna 2 revisions to EDG testing requirements.

The meeting was adjourned at 5:15 p.m.

NOTE: A complete transcript of the meeting is on file at the NRC Public Document Room at 1717 H St., NW., Washington, D. C. or can be obtained at cost from ACE Federal Reporter, Inc., 444 N. Capitol St., Washington D. C. 20001, Telephone (202) 347-3700.

477

***E. Quantitative Safety Goals—**

Discuss NRC Staff evaluation of two-year trial period and plan for implementation of the proposed NRC quantitative safety goals.

***F. Future ACRS Activities—**Discuss anticipated ACRS activities including preparation of the ACRS report to the NRC regarding the proposed safety research program and budget for FY-1987 and proposed review of scram systems for Westinghouse PWR nuclear plants.

***G. EPA Standards for High-Level Radioactive Waste Repositories—**Discuss EPA environmental standards for management and disposal of high-level radioactive wastes in geologic repositories.

***H. Prioritization of Unresolved Generic Issues—**Discuss proposed priorities for a new list of approximately 23 unresolved generic safety related issues.

***I. ACRS Subcommittee Activities—**Discuss safety related activities of designated ACRS subcommittees including hydrodynamic effects in BWR dynamic containments and the effects of insulation debris on containment sump performance following a LOCA.

***J. Meeting with NRC Commissioners—**Discuss ACRS report regarding the roles of the ACRS in review and evaluation of the proposed DOE program for management and disposal of radioactive wastes.

***K. Activities of ACRS Members—**Hear and discuss reports of ACRS members regarding activities as individual ACRS members.

***L. ACRS Procedures and Practices—**Proposed changes to ACRS Bylaws will be considered with respect to the conduct of ACRS members as part of the collegial body and as individuals.

June 6-8, 1985—Agenda to be announced.

July 11-13, 1985—Agenda to be announced.

Dated: April 18, 1985.

John C. Hoyle,

Advisory Committee Management Officer.

[FR Doc. 85-9780 Filed 4-22-85; 8:45 am]

BILLING CODE 7590-01-01

Advisory Committee on Reactor Safeguards, Subcommittee on Reactor Operations, Meeting

The ACRS Subcommittee on Reactor Operations will hold a meeting on May 6, 1985, Room 1046, 1717 H Street, NW, Washington, DC.

The entire meeting will be open to public attendance.

The agenda for the subject meeting shall be as follows:

Monday, May 6, 1985—1:00 p.m. until the conclusion of business

The Subcommittee will discuss recent operating occurrences.

Oral statements may be presented by members of the public with the concurrence of the Subcommittee Chairman; written statements will be accepted and made available to the Committee. Recordings will be permitted only during those portions of the meeting when a transcript is being kept, and questions may be asked only by members of the Subcommittee, its consultants, and Staff. Persons desiring to make oral statements should notify the ACRS staff member named below as far in advance as is practicable so that appropriate arrangements can be made.

During the initial portion of the meeting, the Subcommittee, along with any of its consultants who may be present, may exchange preliminary views regarding matters to be considered during the balance of the meeting.

The Subcommittee will then hear presentations by and hold discussions with representatives of the NRC Staff, its consultants, and other interested persons regarding this review.

Further information regarding topics to be discussed, whether the meeting has been cancelled or rescheduled, the Chairman's ruling on requests for the opportunity to present oral statements and the time allotted therefor can be obtained by a prepaid telephone call to the cognizant ACRS staff member, Mr. Herman Alderman (telephone 202/634-1414) between 8:15 a.m. and 5:00 p.m., EST. Persons planning to attend this meeting are urged to contact the above named individual one or two days before the scheduled meeting to be advised of any changes in schedule, etc., which may have occurred.

Dated: April 18, 1985.

Morton W. Libarkin,

Assistant Executive Director for Project Review.

[FR Doc. 85-9777 Filed 4-22-85; 8:45 am]

BILLING CODE 7590-01-01

Advisory Committee on Reactor Safeguards, Subcommittee on Safeguards and Security, Meeting

The ACRS Subcommittee on Safeguards and Security will hold a meeting on May 7, 1985, Room 1046, 1717 H Street, NW, Washington, DC.

Portions of the meeting will be open to public attendance, however, those

portions that deal with confidential Safeguards Information will be closed to the public.

The agenda for the subject meeting shall be as follows:

Tuesday, May 7, 1985—8:30 a.m. until the conclusion of business

The Subcommittee will review the potential consequences of sabotage at nonpower reactors, be briefed by NMSS on sabotage protection at power reactors, and hear how the NRC Staff reviews and evaluates licensees' security plans.

Oral statements may be presented by members of the public with the concurrence of the Subcommittee Chairman; written statements will be accepted and made available to the Committee. Recordings will be permitted only during those portions of the meeting when a transcript is being kept, and questions may be asked only by members of the Subcommittee, its consultants, and Staff. Persons desiring to make oral statements should notify the ACRS staff member named below as far in advance as is practicable so that appropriate arrangements can be made.

During the initial portion of the meeting, the Subcommittee, along with any of its consultants who may be present, may exchange preliminary views regarding matters to be considered during the balance of the meeting.

The Subcommittee will then hear presentations by and hold discussions with representatives of the NRC Staff, its consultants, and other interested persons regarding this review.

Further information regarding topics to be discussed, whether the meeting has been cancelled or rescheduled, the Chairman's ruling on requests for the opportunity to present oral statements and the time allotted therefor can be obtained by a prepaid telephone call to the cognizant ACRS staff member, Mr. John Schiffgens (telephone 202/634-1414) between 8:15 a.m. and 5:00 p.m., EST. Persons planning to attend this meeting are urged to contact the above named individual one or two days before this scheduled meeting to be advised of any changes in schedule, etc., which may have occurred.

Dated: April 18, 1985.

Morton W. Libarkin,

Assistant Executive Director for Project Review.

[FR Doc. 85-9779 Filed 4-22-85; 8:45 am]

BILLING CODE 7590-01-01

TENTATIVE SCHEDULE FOR ACRS REACTOR OPERATIONS SUBCOMMITTEE
MEETING, MAY 6, 1985, 1:00 p.m.
ROOM 1046, 1717 H STREET NW, WASHINGTON, D.C.

<u>TIME</u>	<u>TITLE</u>	<u>EVENT DATE</u>	<u>PRESENTER</u>
1:00 p.m.	Opening Statement - ACRS Subcommittee Chairman		
1:15 p.m.	Recent HPCI/RCIC Problems	Oct. 1, 1984 Feb. 12, 1985	M. Wegner, IE
1:30 p.m.	Millstone Unit 2 S/G Tube Defects	April 10, 1985	M. Wegner, IE
1:45 p.m.	Station Battery Problems	Nov. 1984 - Present	J. Dyer, IE
2:00 p.m.	Browns Ferry 3 Level Indicator Event	Feb. 13, 1985	J. Monroe & P. Wagner, Reg.2
2:15 p.m.	Summer Premature Criticality	Feb. 28, 1985	P. Burnett & C. Hehl, Reg.2
2:30 p.m.	Palo Verde 2 Weld Leaks in UHS Piping	March 1, 1985	J. Collins, IE
2:45 p.m.	***** BREAK *****	*****	
3:00 p.m.	Trojan Heater Drain Pump Discharge Pipe Rupture	March 9, 1985	C. Trammell, NRR
3:15 p.m.	Grand Gulf 1 Malfunction of Diesel Generator	March 11, 1985 NRR	C. Berlinger,
3:30 p.m.	Byron 1 MSIV Failure During Recovery From Loss of Offsite Power Test	March 14, 1985	V. Hodge, IE
3:45 p.m.	North Anna 2 Revision to EDG Testing Requirements	March 15, 1985	J. T. Beard, NRR
4:00 p.m.	Haddam Neck Feedwater Line	March 16, 1985	P. Cortland, IE

4:15-5:00
p.m.

OTHER EVENTS OF INTEREST
(No Formal Presentation)

Grand Gulf 1 MSIVs Fail to Close (Update)	Feb. 10, 1985	C. E. Rossi
Kewaunee Spontaneous Start of Reactor Coolant Pump	Feb. 12, 1985	C. E. Rossi
Browns Ferry 2 Non-Radiological Fatality (Crane Hook)	March 29, 1985	C. E. Rossi
Millstone 3 Flooding of ESF Room	March 20, 1985	C. E. Rossi
Byron 2 - Solvent Fire in HVAC Humidifier	April 11, 1985	C. E. Rossi

5:00 - Discussion and Adjourn
5:15 p.m.

RECENT SIGNIFICANT EVENTS TO BE PRESENTED NEXT TIME

Catawba 2 Failure of Volume Control Tank	April 22, 1985	Undetermined
Oconee 1 Loss of Control Room Annunciators	April 25, 1985	Undetermined

[illegible]

ACRS SUBCOMMITTEE MEETING ON

LOCATION: ROOM 1046, 1717 H St. NW., Washington, D.C.

DATE: May 6, 1985

ATTENDANCE LIST

attachment C

PLEASE PRINT:

[illegible]

ATTACHMENT D

HANDOUTS FOR REACTOR OPERATIONS SUBCOMMITTEE MEETING
MAY 6, 1985
WASHINGTON, D.C.

1. Agenda and Staff Presentation
2. Browns Ferry level indicator event
3. Palo Verde 2 Weld leaks - microbiological induced corrosion

attachment 71

AA

***E. Quantitative Safety Goals—**

Discuss NRC Staff evaluation of two-year trial period and plan for implementation of the proposed NRC quantitative safety goals.

***F. Future ACRS Activities—**Discuss anticipated ACRS activities including preparation of the ACRS report to the NRC regarding the proposed safety research program and budget for FY-1987 and proposed review of scram systems for Westinghouse PWR nuclear plants.

***G. EPA Standards for High-Level Radioactive Waste Repositories—**Discuss EPA environmental standards for management and disposal of high-level radioactive wastes in geologic repositories.

***H. Prioritization of Unresolved - Generic Issues—**Discuss proposed priorities for a new list of approximately 23 unresolved generic safety related issues.

***I. ACRS Subcommittee Activities—**Discuss safety related activities of designated ACRS subcommittees including hydrodynamic effects in BWR dynamic containments and the effects of insulation debris on containment sump performance following a LOCA.

***J. Meeting with NRC Commissioners—**Discuss ACRS report regarding the roles of the ACRS in review and evaluation of the proposed DOE program for management and disposal of radioactive wastes.

***K. Activities of ACRS Members—**Hear and discuss reports of ACRS members regarding activities as individual ACRS members.

***L. ACRS Procedures and Practices—**Proposed changes to ACRS Bylaws will be considered with respect to the conduct of ACRS members as part of the collegial body and as individuals.

June 6-8, 1985—Agenda to be announced.

July 11-13, 1985—Agenda to be announced.

Dated: April 18, 1985.

John C. Hoyte,

Advisory Committee Management Officer.

[FR Doc. 85-8780 Filed 4-22-85; 8:45 am]

BILLING CODE 7590-01-01

Advisory Committee on Reactor Safeguards, Subcommittee on Reactor Operations; Meeting

The ACRS Subcommittee on Reactor Operations will hold a meeting on May 6, 1985, Room 1046, 1717 H Street, NW, Washington, DC.

The entire meeting will be open to public attendance.

The agenda for the subject meeting shall be as follows:

Monday, May 6, 1985—1:00 p.m. until the conclusion of business

The Subcommittee will discuss recent operating occurrences.

Oral statements may be presented by members of the public with the concurrence of the Subcommittee Chairman; written statements will be accepted and made available to the Committee. Recordings will be permitted only during those portions of the meeting when a transcript is being kept, and questions may be asked only by members of the Subcommittee, its consultants, and Staff. Persons desiring to make oral statements should notify the ACRS staff member named below as far in advance as is practicable so that appropriate arrangements can be made.

During the initial portion of the meeting, the Subcommittee, along with any of its consultants who may be present, may exchange preliminary views regarding matters to be considered during the balance of the meeting.

The Subcommittee will then hear presentations by and hold discussions with representatives of the NRC Staff, its consultants, and other interested persons regarding this review.

Further information regarding topics to be discussed, whether the meeting has been cancelled or rescheduled, the Chairman's ruling on requests for the opportunity to present oral statements and the time allotted therefor can be obtained by a prepaid telephone call to the cognizant ACRS staff member, Mr. Herman Alderman (telephone 202/634-1414) between 8:15 a.m. and 5:00 p.m., EST. Persons planning to attend this meeting are urged to contact the above named individual one or two days before the scheduled meeting to be advised of any changes in schedule, etc., which may have occurred.

Dated: April 18, 1985.

Morton W. Libarkin,

Assistant Executive Director for Project Review.

[FR Doc. 85-8777 Filed 4-22-85; 8:45 am]

BILLING CODE 7590-01-01

Advisory Committee on Reactor Safeguards, Subcommittee on Safeguards and Security; Meeting

The ACRS Subcommittee on Safeguards and Security will hold a meeting on May 7, 1985, Room 1046, 1717 H Street, NW, Washington, DC.

Portions of the meeting will be open to public attendance, however, those

portions that deal with confidential Safeguards Information will be closed to the public.

The agenda for the subject meeting shall be as follows:

Tuesday, May 7, 1985—8:30 a.m. until the conclusion of business

The Subcommittee will review the potential consequences of sabotage at nonpower reactors, be briefed by NMSS on sabotage protection at power reactors, and hear how the NRC Staff reviews and evaluates licensees' security plans.

Oral statements may be presented by members of the public with the concurrence of the Subcommittee Chairman; written statements will be accepted and made available to the Committee. Recordings will be permitted only during those portions of the meeting when a transcript is being kept, and questions may be asked only by members of the Subcommittee, its consultants, and Staff. Persons desiring to make oral statements should notify the ACRS staff member named below as far in advance as is practicable so that appropriate arrangements can be made.

During the initial portion of the meeting, the Subcommittee, along with any of its consultants who may be present, may exchange preliminary views regarding matters to be considered during the balance of the meeting.

The Subcommittee will then hear presentations by and hold discussions with representatives of the NRC Staff, its consultants, and other interested persons regarding this review.

Further information regarding topics to be discussed, whether the meeting has been cancelled or rescheduled, the Chairman's ruling on requests for the opportunity to present oral statements and the time allotted therefor can be obtained by a prepaid telephone call to the cognizant ACRS staff member, Mr. John Schiffgens (telephone 202/634-1414) between 8:15 a.m. and 5:00 p.m., EST. Persons planning to attend this meeting are urged to contact the above named individual one or two days before this scheduled meeting to be advised of any changes in schedule, etc., which may have occurred.

Dated: April 18, 1985.

Morton W. Libarkin,

Assistant Executive Director for Project Review.

[FR Doc. 85-8779 Filed 4-22-85; 8:45 am]

BILLING CODE 7590-01-01

attachment B

TENTATIVE SCHEDULE FOR ACRS REACTOR OPERATIONS SUBCOMMITTEE
MEETING, MAY 6, 1985, 1:00 p.m.
ROOM 1046, 1717 H STREET NW, WASHINGTON, D.C.

<u>TIME</u>	<u>TITLE</u>	<u>EVENT DATE</u>	<u>PRESENTER</u>
1:00 p.m.	Opening Statement	- ACRS Subcommittee Chairman	
1:15 p.m.	Recent HPCI/RCIC Problems	Oct. 1, 1984 Feb. 12, 1985	M. Wegner, IE
1:30 p.m.	Millstone Unit 2 S/G Tube Defects	April 10, 1985	M. Wegner, IE
1:45 p.m.	Station Battery Problems	Nov. 1984 - Present	J. Dyer, IE
2:00 p.m.	Browns Ferry 3 Level Indicator Event	Feb. 13, 1985	J. Monroe & P. Wagner, Reg.2
2:15 p.m.	Summer Premature Criticality	Feb. 28, 1985	P. Burnett & C. Hehl, Reg.2
2:30 p.m.	Palo Verde 2 Weld Leaks in UHS Piping	March 1, 1985	J. Collins, IE
2:45 p.m.	***** BREAK *****	*****	
3:00 p.m.	Trojan Heater Drain Pump Discharge Pipe Rupture	March 9, 1985	C. Trammell, NRR
3:15 p.m.	Grand Gulf 1 Malfunction of Diesel Generator	March 11, 1985 NRR	C. Berlinger,
3:30 p.m.	Byron 1 MSIV Failure During Recovery From Loss of Offsite Power Test	March 14, 1985	V. Hodge, IE
3:45 p.m.	North Anna 2 Revision to EDG Testing Requirements	March 15, 1985	J. T. Beard, NRR
4:00 p.m.	Haddam Neck Feedwater Line	March 16, 1985	P. Cortland, IE

4:15-5:00
p.m.

OTHER EVENTS OF INTEREST
(No Formal Presentation)

Grand Gulf 1 MSIVs Fail to Close (Update)	Feb. 10, 1985	C. E. Rossi
Kewaunee Spontaneous Start of Reactor Coolant Pump	Feb. 12, 1985	C. E. Rossi
Browns Ferry 2 Non-Radiological Fatality (Crane Hook)	March 29, 1985	C. E. Rossi
Millstone 3 Flooding of ESF Room	March 20, 1985	C. E. Rossi
Byron 2 - Solvent Fire in HVAC Humidifier	April 11, 1985	C. E. Rossi

5:00 - Discussion and Adjourn
5:15 p.m.

RECENT SIGNIFICANT EVENTS TO BE PRESENTED NEXT TIME

Catawba 2 Failure of Volume Control Tank	April 22, 1985	Undetermined
Oconee 1 Loss of Control Room Annunciators	April 25, 1985	Undetermined

attachment

ATTENDANCE LIST

[illegible]

DATE: May 6, 1985

ATTENDANCE LIST

attachment C

[illegible]

ATTACHMENT D

HANDOUTS FOR REACTOR OPERATIONS SUBCOMMITTEE MEETING
MAY 6, 1985
WASHINGTON, D.C.

1. Agenda and Staff Presentation
2. Browns Ferry level indicator event
3. Palo Verde 2 Weld leaks - microbiological induced corrosion