

CERTIFIED

TABLE OF CONTENTS
MINUTES OF THE 384TH ACRS MEETING
APRIL 2-4, 1992

UCRS-2813
PDR 9/25/92

I. Chairman's Report.....	1
II. Meeting with NRC Chairman Selin.....	1
III. GE Advanced Boiling Water Reactors.....	3
IV. Implementation of NRC Safety Goals	5
V. Evaluation of Risk Associated with Low Power and Shutdown Operations of Nuclear Power Plants.....	5
VI. Policy Issues for Certification of Advanced LWR Plants.....	7
VII. Report on the Thermal Hydraulic Phenomena Subcommittee Meeting on the Status of the Review of General Electric Power Uprate Program.....	9
VIII. Elimination of Burdensome Regulatory Requirements....	10
IX. Proposed Test Program for the AP600 Passive Plant.....	11
X. Criteria to Accommodate Severe Accidents in ALWR Containment Designs.....	12
XI. Use of PRA in the Regulatory Process.....	13
XII. Subcommittee Reports	14
• Materials and Metallurgy/Maintenance Practices and Procedures Joint Meeting on February 13, 1992...	14
• Planning and Procedures Meeting on March 19, 1992...	15
• Planning and Procedures Meeting on April 1, 1992....	17
XIII. Miscellaneous	
• Quality Assurance.....	18
• Spent Fuel Storage Casks.....	18
XIV. Executive Session	
A. Reports to the Commission.....	18
B. Memoranda.....	18

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XV. Summary/List of Follow-Up Matters.....	19
XVI. Future Activities	
A. Future Agenda.....	21
B. Future Subcommittee Activities.....	21

APPENDICES
MINUTES OF THE 384TH ACRS MEETING
APRIL 2-4, 1992

- I. Attendees
- II. Future Agenda
- III. Future Subcommittee Activities
- IV. List of Documents Provided to the Committee

384th ACRS
4-2-1992 12:19

representing applicants Cleveland Electric Illuminating Company and Toledo Edison Company may present argument on behalf of applicants. The Board prefers to hear argument from only one counsel for each of the other parties.²

It is so Ordered.

Bethesda, Maryland, March 19, 1992.
For the Atomic Safety and Licensing Board,
Marshall E. Miller,
Chairman, Administrative Judge.
[FR Doc. 92-6931 Filed 3-24-92; 8:45 am]
BILLING CODE 7590-01-M

Advisory Committee on Reactor Safeguards; Meeting Agenda

In accordance with the purposes of sections 29 and 182b. of the Atomic Energy Act (42 U.S.C. 2039, 2232b), the Advisory Committee on Reactor Safeguards will hold a meeting on April 2-4, 1992, in room P-110, 7920 Norfolk Avenue, Bethesda, Maryland. Notice of this meeting was published in the Federal Register on February 24, 1992.

Thursday, April 2, 1992

8:30 a.m.-8:45 a.m.: *Opening Remarks by ACRS Chairman* (Open)—The ACRS Chairman will make opening remarks and comment briefly regarding items of current interest.

8:45 a.m.-11 a.m.: *GE Advanced Boiling Water Reactor* (Open/Closed)—The Committee will discuss a proposed ACRS report regarding the draft safety evaluation report for certification of this standardized nuclear power plant design.

Portions of this session will be closed as necessary to discuss Proprietary Information applicable to this matter.

11 a.m.-12 Noon: *Implementation of NRC Safety Goals* (Open)—The Committee will discuss a proposed ACRS report to NRC on an alternate plan for implementation of NRC's safety goal policy.

Representatives of the NRC staff will participate, as appropriate.

1 p.m.-3 p.m.: *Evaluation of Risk Associated With Low Power and Shutdown Operations of Nuclear Power Plants* (Open)—The Committee will review and comment on the NRC staff evaluation of risk from low power and shutdown operations at nuclear power plants (NUREG-1449). Representatives

of the NRC staff will participate, as appropriate.

3 p.m.-4 p.m.: *Use of Probabilistic Risk Assessment in the Regulatory Process* (Open)—The Committee will hear a briefing by and hold a discussion with representatives of the NRC staff regarding the status of activities of the NRC interoffice working group to develop guidance on consistent and applicable methods to be applied in the use of probabilistic risk assessment.

4:15 p.m.-4:45 p.m.: *Meeting with NRC Chairman Ivan Selin* (Open)—The Committee will meet with the Chairman to discuss topics of mutual interest regarding ACRS activities.

4:45 p.m.-6:15 p.m.: *Policy Issues for Certification of Advanced LWR Plants* (Open)—The Committee will discuss proposed ACRS plans to review policy issues identified by the NRC staff that are applicable to certification of advanced light water reactors, including evolutionary and passive plants.

6:15 p.m.-6:45 p.m.: *Preparation of ACRS Reports* (Open)—The Committee will discuss proposed ACRS positions and reports items considered during this meeting.

Friday, April 3, 1992

8:30 a.m.-10 a.m.: *Power Level Increase for GE Boiling Water Reactors* (Open)—The Committee will review and comment on topical reports submitted by the GE Company as the basis for power level increases in operating GE BWR power plants.

Representatives of the NRC staff and the GE Company will participate, as appropriate.

10:15 a.m.-11:15 a.m.: *Elimination of Burdensome Regulatory Requirements* (Open)—The Committee will hear a briefing by representatives of the NRC staff regarding the NRC's program to eliminate regulatory requirements that are a burden without in any way reducing public health and safety.

11:15 a.m.-12:15 p.m. and 1:15 p.m.-2:15 p.m.: *GE Advanced Boiling Water Reactor* (Open/Closed)—The Committee will discuss a proposed ACRS report on the draft safety evaluation report for certification of this standardized nuclear power plant design.

Portions of the session will be closed as necessary to discuss Proprietary Information related to this matter.

2:15 p.m.-3:30 p.m.: *Meeting with Director, NRC's Office of Nuclear Reactor Regulation and Director, NRC's Office of Nuclear Regulatory Research*, (Open)—The Committee will discuss items of mutual interest, including aspects of the full-height, full-pressure integral system testing program for the

Westinghouse AP600 passive nuclear plant.

3:30 p.m.-4:15 p.m.: *Future ACRS Activities* (Open)—The Committee will discuss anticipated ACRS subcommittee activities and items proposed for consideration by the full Committee.

4:15 p.m.-8 p.m.: *Implementation of NRC Safety Goals* (Open)—The Committee will discuss a proposed ACRS report to NRC on an alternate plan for implementation of NRC's safety goal policy.

Representatives of the NRC staff will participate, as appropriate.

6 p.m.-6:30 p.m.: *Preparation of ACRS Reports* (Open)—The Committee will discuss proposed ACRS positions and reports regarding items considered during this meeting.

Saturday, April 4, 1992

8:30 a.m.-11:30 a.m.: *Preparation of ACRS Reports* (Open)—The Committee will discuss proposed ACRS reports to NRC regarding items considered during this meeting.

11:30 a.m.-12 Noon: *Appointment of ACRS Members* (Open/Closed)—The Committee will discuss qualification of candidates proposed for appointment as ACRS members.

This session will be closed as necessary to discuss information the release of which would represent a clearly unwarranted invasion of personal privacy.

12 Noon-12:45 p.m.: *ACRS Subcommittee Activities* (Open)—The Committee will hear a briefing and hold a discussion regarding the status of activities assigned to cognizant subcommittees, including the planning and conduct of ACRS work, reconciliation of ACRS recommendations, application of ASME risk-based standards, and related matters.

12:45 p.m.-2 p.m.: *Miscellaneous* (Open)—The Committee will complete discussion of items considered during this meeting and items which were not completed at previous meetings as time and availability of information permit.

Procedures for the conduct of and participation in ACRS meetings were published in the Federal Register on October 1, 1991 (56 FR 49800). In accordance with these procedures, oral or written statements may be presented by members of the public, recordings will be permitted only during those open portions of the meeting when a transcript is being kept, and questions may be asked only by members of the Committee, its consultants, and staff. Persons desiring to make oral statements should notify the ACRS

² Counsel for the applicants, counsel for the staff and the Department of Justice, and counsel for intervening parties City of Cleveland, American Municipal Power-Ohio, and Alabama Electric Cooperative should consult and arrive at an agreement concerning the division of the time allotted to the respective parties.

Executive Director, Mr. Raymond F. Fraley, as far in advance as practicable so that appropriate arrangements can be made to allow the necessary time during the meeting for such statements.

Use of still, motion picture, and television cameras during this meeting may be limited to selected portions of the meeting as determined by the Chairman. Information regarding the time to be set aside for this purpose may be obtained by a prepaid telephone call to the ACRS Executive Director prior to the meeting. In view of the possibility that the Schedule for ACRS meetings may be adjusted by the Chairman as necessary to facilitate the conduct of the meeting, persons planning to attend should check with the ACRS Executive Director if such rescheduling would result in major inconvenience.

I have determined in accordance with subsection 10(d) Public Law 92-463 that it is necessary to close portions of this meeting noted above to discuss Proprietary Information applicable to the matters being considered in accordance with 5 U.S.C. 552(b)(4) and information the release of which would represent a clearly unwarranted invasion of personal privacy per 5 U.S.C. 552(b)(6).

Further information regarding topics to be discussed, whether the meeting has been canceled or rescheduled, the Chairman's ruling on requests for the opportunity to present oral statements and the time allotted can be obtained by a prepaid telephone call to the ACRS Executive Director, Mr. Raymond F. Fraley (telephone 301/492-8049), between 8 a.m. and 4:30 p.m. est.

Dated: March 19, 1992.

John C. Hoyle,

Advisory Committee Management Officer

[FR Doc. 92-6932 Filed 3-24-92; 8:45 am]

BILLING CODE 7590-01-M

OFFICE OF THE UNITED STATES TRADE REPRESENTATIVE

Defense Policy Advisory Committee on Trade; Meeting

AGENCY: Office of the United States Trade Representative.

ACTION: Notice of Defense Policy Advisory Committee on Trade Meetings Schedule.

SUMMARY: The meetings will include a review and discussion of current issues which influence U.S. trade policy. Pursuant to section 2155 (f) of title 19 of the United States Code, I have determined that these meetings will be concerned with matters the disclosure of which would seriously compromise the

Government's negotiating objectives or bargaining positions.

DATES: The meeting of the Executive Committee of the Defense Policy Advisory Committee on Trade (DPACT) will be held from 10 am to 2 pm on Tuesday, April 21. The meeting of the full committee of DPACT will be held from 9 am to 4 pm on Thursday, June 4.

ADDRESSES: The meetings will be held at the Pentagon, room 3D1019 on April 21, 1992, and room 3E809 on June 4, 1992, Washington, DC, 20301-3070.

FOR FURTHER INFORMATION CONTACT: Judy Davis, Administration Assistant to DPACT, Department of Defense, OUSD(a)/IP/ILO, tel: (703) 693-2473. Carla A. Hills,

United States Trade Representative.

[FR Doc. 92-6921 Filed 3-24-92; 8:45 am]

BILLING CODE 5190-01-M

POSTAL SERVICE

International Surface AO Mail to Canada

AGENCY: Postal Service.

ACTION: Changes in rate schedules.

SUMMARY: Pursuant to its authority under 39 U.S.C. 407, the Postal Service, after considering the comments submitted in response to its request in 57 FR 3805 for comments on proposed changes in the rate schedules for surface AO mailings to Canada, hereby gives notice that it is implementing the changes as proposed.

EFFECTIVE DATE: 12:01 a.m., April 18, 1992.

FOR FURTHER INFORMATION CONTACT: John F. Alepa (202) 268-2650.

SUPPLEMENTARY INFORMATION: On January 31, 1992, the Postal Service published in the *Federal Register* a notice of proposed changes in the rate schedules for surface mailings to Canada of regular printed matter, small packets, and publishers' periodicals (57 FR 3805). The proposed changes involved establishing one-ounce rate increments for items weighing between four ounces and one pound, and adjusting the rate levels applicable to publishers' periodicals weighing three ounces or less.

The Postal Service requested comments on the proposed changes by March 2, 1992. The only comment submitted by that date came from the editor of a news publication, who raised two issues. First, the commenter asserted that rates that do not take into account the mailer's distance from the U.S.-Canadian border place a publisher mailing from a location near the border

at a disadvantage in relation to a publisher mailing from a location further from the border. The commenter suggested that the Postal Service consider offering zoned rates for Canada-bound publications based on the mailer's distance from the border.

Second, the commenter pointed out that the current rate schedule for publishers' periodicals to Canada has two-ounce rate increments after the fourth weight step. The commenter claimed that this rate structure unfairly penalizes publishers mailing items weighing more than four ounces.

The Postal Service believes that the first issue raised by the commenter is unrelated to the January 31 proposal, which was intended to simplify rate application and to lower the postage for certain items. With regard to the commenter's second point, the Postal Service notes that the changes being implemented provide relief for the condition identified as a problem.

In setting international postage rates, the Postal Service must ensure that such rates (1) do not apportion the costs of the service so as to impair the overall value of the service to the users; (2) apportion the costs of all postal operations to all users on a fair and equitable basis; (3) are fair and reasonable; and (4) are not unduly or unreasonably discriminatory or preferential. The rates for surface AO mailings to Canada announced herein satisfy these criteria.

Accordingly, the Postal Service hereby adopts the changes set forth in the rate schedules below. These changes shall take effect at 12:01 a.m., on April 18, 1992.

Authority: 39 U.S.C. 407, 410. Stanley F. Mures.

Assistant General Counsel, Legislative Division.

INTERNATIONAL SURFACE AO MAIL TO CANADA

Ounces ¹	Small packets and regular printed matter rates	Publishers' periodicals rates
1	\$0.30	\$0.32
2	.58	.36
3	.80	.46
4	1.02	.54
5	1.14	.60
6	1.26	.65
7	1.38	.70
8	1.60	.76
9	1.62	.81
10	1.74	.87
11	1.86	.92
12	1.98	.98
13	2.10	1.03
14	2.22	1.09
15	2.34	1.14



UNITED STATES
NUCLEAR REGULATORY COMMISSION
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
WASHINGTON, D. C. 20555

Revised: March 27, 1992

SCHEDULE AND OUTLINE FOR DISCUSSION
384TH ACRS MEETING
APRIL 2-4, 1992

Thursday, April 2, 1992, Room P-110, 7920 Norfolk Avenue, Bethesda, Md.

- 1) 8:30 - 8:45 A.M. Opening Remarks by ACRS Chairman (Open)
 - 1.1) Opening statement (DAW/SD)
 - 1.2) Items of Current Interest (DAW/RFF)

- 2) 8:45 - 9:15 A.M. Meeting with NRC Chairman (Open)
 - 2.1) Discuss items of current interest regarding the conduct of ACRS activities (DAW/RFF)

- 9:15 - 9:30 A.M. BREAK

- 3) 9:30 - 11:30 A.M. GE Advanced Boiling Water Reactor (Open/Closed)

TAB 3-----

 - 3.1) Discuss proposed ACRS report to NRC regarding the DSERs for certification of the proposed design of this standard plant (CM, et al./MME)

(Note: Portions of this session will be closed as necessary to discuss Proprietary Information applicable to this project.)

- 4) 11:30 - 12:30 P.M. Implementation of NRC Safety Goals (Open)

TAB 4-----

 - 4.1) Discuss proposed ACRS report to NRC regarding an alternate plan to implement the NRC safety goal policy (DAW/MDH)
 - 4.2) Discussion with representatives of the NRC staff, as appropriate

- 12:30 - 1:30 P.M. LUNCH

- 5) 1:30 - 3:30 P.M. Evaluation of Risk Associated With Low Power and Shutdown Operations of Nuclear Power Plants (Open)
 TAB 5----- 5.1) Comments by ACRS Subcommittee Chairman regarding the NRC staff evaluation of risk from low power and shutdown operations of nuclear power plants (NUREG-1449 (TSK/PAB))
 5.2) Meeting with representatives of the NRC staff and the nuclear industry, as appropriate
- 3:30 - 3:45 P.M. BREAK
- 6) 3:45 - 4:30 P.M. Future ACRS Activities (Open)
 6.1) Report of Planning and Procedures Subcommittee regarding:
 • Anticipated Subcommittee activities (DAW/RPS)
 • Items proposed for consideration by the full Committee (DAW/RPS)
- 7) 4:30 - 6:15 P.M. Policy Issues for Certification of Advanced LWR Plants (Open)
 TAB 7----- 7.1) Discuss proposed ACRS plans to review policy issues identified by the NRC staff that are applicable to the certification of advanced light-water reactors (CJW/HA)
- 8) 6:15 - 6:45 P.M. Preparation of ACRS Reports (Open)
 8.1) Discuss proposed ACRS comments/recommendations regarding its report to NRC on the risks associated with low power and shutdown operations of nuclear power plants (TSK/PAB)

Friday, April 3, 1992, Room P-110, 7920 Norfolk Avenue, Bethesda, Md.

- 9) 3:30 - 9:00 A.M. Power Level Increase for GE Boiling Water Reactors (Open/Closed)
 SEE HANDOUT---- 9.1) Comments by ACRS Subcommittee Chairman regarding topical reports submitted by GE as the basis for power level increases in GE BWRs (IC/EGI)
 (Note: Portions of this session will be closed to discuss Proprietary Information related to this matter, as appropriate.)

- 10) 9:00 - 10:00 A.M. ACRS Subcommittee Activities (Open)
- 10.1) Report of ACRS Planning and Procedures Subcommittee regarding
 - 10.1-1) Conduct of ACRS activities
 - 10.1-2) Reconciliation of ACRS recommendations by the EDO, including:
 - 10.1-2.1) SECY-92-070 dated 2/28/92, Staff Comparison of ACRS - Proposed Criteria to Accommodate Severe Accidents in Advanced Light Water Reactor Containment Designs with Related Criteria Proposed by Industry (DAW/MDH)
 - 10.1-2.2) Use of Design Acceptance Criteria During 10 CFR Part 52, Design Certification Review, dated 3/10/92 (CJW/MME)
- 10:00 - 10:15 A.M. BREAK
- 11) 10:15 - 11:15 A.M. Elimination of Burdensome Regulatory Requirements (Open)
- TAB 11-----
- 11.1) Briefing by representatives of the NRC staff regarding the NRC effort to eliminate regulatory requirements that are a burden without reducing public health and safety (DAW/MDH)
- 12) 11:15 - 12:15 P.M. GE Advanced Boiling Water Reactor (Open/Closed)
- 12.1) Discuss proposed ACRS report to NRC on the DSERS for certification of this standardized nuclear plant (CM, et al./MME)
- (Note: Portions of this session will be closed as necessary to discuss Proprietary Information related to this matter.)
- 12:15 - 1:15 P.M. LUNCH
- 12) 1:15 - 2:15 P.M. GE Advanced Boiling Water Reactor (Open/Closed)
- 12.2) Continue discussion of proposed ACRS report to NRC on the DSERS for certification of this standardized nuclear plant (CM, et al./MME)
- (Note: Portions of this session will be

closed as necessary to discuss Proprietary Information related to this matter.)

- 13) 2:15 - 3:30 P.M. Meeting with Director, NRC Office of Nuclear Reactor Regulation and Representative of NRC Office of Nuclear Regulatory Research (Open)
 13.1) Comments by ACRS Subcommittee Chairmen regarding:
 TAB----- 13.1-1) Proposed program for Full-Height, Full-Pressure Integral System Testing for the Westinghouse AP600 Passive Plant Design (IC/PAB)
 13.1-2) SECY-92-070, "Staff Comparison of ACRS-Proposed Criteria to Accommodate Severe Accidents in Advanced Light Water Reactor Containment Designs with Related Criteria Proposed by Industry," dated 2/28/92 (DAW/MDH)
 13.2) Meeting with representatives of the NRC staff (NRR and RES)
- 3:30 - 3:45 P.M. BREAK
- 14) 3:45 - 4:45 P.M. Use of Probabilistic Risk Assessment in the Regulatory Process (Open)
 TAB 14----- 14.1) Comments by ACRS Subcommittee Chairman (HWL/MDH)
 14.2) Briefing by representatives of the NRC staff regarding the status of activities of the NRC interoffice working group to develop guidance on consistent and applicable methods to be applied in the use of probabilistic risk assessment
- 15) 4:45 - 5:15 P.M. ACRS Subcommittee Activities (Open)
 TAB 15----- 15.1) Report of Subcommittee meeting on February 13, 1992 regarding application of ASME Risk-Based Inspection Guidelines (PGS/EGI)

- 16) 5:15 - 6:15 P.M. Preparation of ACRS Reports (Open)
 16.1) Discuss proposed ACRS comments and recommendations regarding the evaluation of risks from low power and shutdown operations of nuclear power plants (TSK/PAB)

Saturday, April 4, 1992, Room P-110, 7923 Norfolk Avenue, Bethesda, Md.

- 17) 8:30 - 11:30 A.M. Preparation of ACRS Reports to the NRC Regarding: (Open)
 17.1) GE Advanced Boiling Water Reactor (CM/MME)
 17.2) Evaluation of Risk Associated with Low Power and Shutdown Operations of Nuclear Power Plants (TSK/PAB)
 17.3) Use of I.R. in the Regulatory Process (Tentative) (HWL/MDH)
- 18) 11:30 - 12.00 Noon Appointment of ACRS Members (Closed)
 Discuss the qualifications of candidates proposed for consideration as nominees for ACRS membership (DAW/MFL)
 (Note: Portions of this session will be closed as necessary to discuss information the release of which would represent a clearly unwarranted invasion of personal privacy.)
- 19) 12:00 - 1:00 P.M. Implementation of NRC Safety Goals (Open)
 19.1) Continue discussion of proposed report to the NRC regarding an alternate plan for implementation of the NRC Safety Goal Policy (DAW/MDH)
- 20) 1:00 - 2:00 P.M. Miscellaneous (Open)
 20.1) Complete discussion of items considered during this meeting and items which were not completed at previous meetings as time and availability of information permit

CERTIFIED

MINUTES OF
384TH ACRS MEETING
APRIL 2-4, 1992

The 384th meeting of the Advisory Committee on Reactor Safeguards was held at Room P-110, 7920 Norfolk Avenue, Bethesda, Md., on April 2-4, 1992. The purpose of this meeting was to discuss and take appropriate action on the items listed in the attached agenda. The entire meeting was open to public attendance, with the exception of a portion that dealt with the discussion of proprietary information related to the Westinghouse AP600 nuclear plant and selection of new Committee members.

A transcript of selected portions of the meeting was kept and is available in the NRC public Document Room. (Copies of the transcript are available for purchase from Ann Riley & Associates, Ltd., 1612 K Street, N.W., Washington, D.C. 20006.)

ATTENDEES

ACRS Members: D. Ward (Chairman), P. Shewmon (Vice Chairman), I. Catton, W. Kerr, T. Kress, H. Lewis, C. Michelson, C. P. Siess, J. E. Wilkins, and C. J. Wylie (J. Carroll was not in attendance for any portion of this meeting.)

I. Chairman's Report (Open)

Note: Mr. R. F. Fraley was the Designated Federal Official for this portion of the meeting.

Items of Current Interest

Mr. D. Ward, ACRS Chairman, opened the meeting at 8:30 a.m. on April 2, 1992 and mentioned the following items of interest:

- The presentation schedule for the days meeting
- Noted that the Committee did have some new information on the Westinghouse AP600 plants test requirements and that the Commission would be interested in receiving Committee input from this meeting.
- Noted that a few members of the German RSK have asked to meet with a few ACRS members in May 1992 to discuss some selected matters.

II. Meeting with NRC Chairman Selin (Open)

Note: Mr. G. Quittschreiber was the Designated Federal Official for this portion of the meeting.

Chairman Selin met with the Committee and discussed the following matters:

• Proposal for Future ACRS Activities

Chairman Selin noted that he had been considering how the Committee could be more useful to the Commission and proposed that "beyond the statutory responsibilities," the Committee should consider the three following overall areas of work:

AREA 1. The Committee should work on those specific topics on which the Commission requests the Committee's help (e.g., contribution of the regulatory process to reactor safety based on a retrospective look at events that have actually occurred). These may or may not be specific work assignments required by statute. Interaction on these items would be directly with the Commissioners.

AREA 2. The Committee should focus more on a relatively small number of long term continuing issues (e.g., Use of DAC, ITAAC, and PRA in the regulatory process).

Chairman Selin suggested that at the most there should only be three or four of these important "continuing issues." These issues are expected to be long-term matters that both the Committee and Commission will have agreed are useful topics for the Committee's attention.

Chairman Selin suggested that one such area of possible Committee involvement might be computer software in nuclear plants. He noted the following reasons as to why this area needs special attention:

1. Not much experience in nuclear plants
2. The staff is not strong in this area
3. Unlike hardware, you can't test the computer codes based on the design requirements, but need the actual software to test it.

Chairman Selin suggested that it would be helpful to get empirical evidence on human performance to be used in PRAs, based on actual operator performance during emergencies, as opposed to concentrating only on material and equipment performance.

Assignments in this area could include items identified by the Commission or the Committee. Although interactions regarding items in this area would be primarily with the staff, the Commission would be kept informed by periodic status reports and meetings. Those issues that cannot be resolved by interaction with the staff/staff management would be elevated to Commission level.

Since such "long term" items will involve a considerable expenditure of resources, a mechanism is needed to reach mutual

agreement between the Commission and Committee that they are worth pursuing.

The Committee's Key Technical Issues, developed during the Baltimore retreat and agreed to in a Committee Memorandum to File dated February 7, 1992, were mentioned briefly. Chairman Selin suggested that this set of issues are of the type where the Committee and Commission should agree that they are appropriate matters for the Committee to give in-depth attention.

(Note: In a separate but related meeting, Chairman Selin noted that the Commissioners are primarily policy makers and are not normally involved in specific technical decisions.)

AREA 3. The Committee should work more directly with the senior staff managers in those areas where the staff would benefit from Committee advice. He suggested that the staff would respond to the Committee's advice in these areas directly. The status of this work would be reported to the Commission occasionally. In this area, the Committee would contribute by addressing technical matters even though the main audience is the office directors and the staff rather than the Commission.

General Comments and Conclusions:

Based on the distribution suggested, the reports sent directly to the Commission would be "leaner and more focused." The Commission could respond to these reports directly. He noted that the Committee deserves the Commission's full attention to those things it brings to the Commission's attention.

Chairman Selin sees his suggestions as a way to help the ACRS and the NRC staff work closer together. He suggested that he would leave it to the Committee to find a way to work more closely with the senior managers on specific issues, not just by inviting them to Committee meetings on those projects on which the staff is working.

• The Nuclear Power Program in Eastern Europe

During a general discussion with the Committee on items of current interest, Chairman Selin reported briefly on his recent trip to Eastern Europe. He agreed to provide the Committee a copy of his trip report. (Note: This trip report was distributed to the members on April 17, 1992.) He noted that the people associated with the nuclear programs in these countries, especially in the upper technical echelons, do know what to do technically, but are faced with organization, resource, and incentive problems.

Chairman Selin suggested that what he thought was needed to solve their nuclear reactor plant problems was a three-level approach as follows:

1. Initiate immediate and relatively cheap set of safety measures to fund inspectors, raise the pay of operators, clean up operating procedures, fire protection, etc., to be performed by plant people at a relatively small cost (probably \$10 million a plant).

2. A \$10-\$15 billion kitty (\$100 to \$200 million per reactor) expended over five years for such things as better instrumentation, better controls, emergency systems, etc. This would be conditioned on seeing real long term commitment by the Eastern European countries on matters to upgrade and maintain the safety of their nuclear power plants.

3. Real economic and regulatory reform, where the pricing would be reasonable so that proper construction could be done to finish the newer/safer reactors already under construction with phaseout of the older/less-safe reactors.

Chairman Selin noted that there is a significant organizational problem in the Eastern European nuclear program, in that the regulators don't have much "swing," making it difficult for the West to coordinate with them.

In response to a question from Mr. Ward concerning the NRC's role, Chairman Selin noted that Russian laboratories are doing useful research (by keeping good people involved). There are a number of joint nuclear-related projects being considered at the White House level. He noted that accounting in the proliferation area, though complex, is conceptually straightforward, and less expensive to resolve than the nuclear plant safety issue.

In response to a question from Dr. Shewmon, concerning the use of fissionable weapons material in reactors, Chairman Selin said that mixing the nuclear weapons grade material with the nuclear reactor fuel would help provide the fuel for Eastern European reactors for the supply of energy for many years. However, to accomplish this would require making broad policy decisions since there would be problems with handling and storing the fuel. He noted that this is not only an issue for the Eastern European reactors, but needs to be looked at in this country as well.

Note: The ACRS Office received a telephone call from Chairman Selin's Office on May 4, 1992 saying that this section of the minutes was satisfactory as written.

III. GE Advanced Boiling Water Reactor (Open)

Note: Dr. El-Zeftawy was the Designated Federal Official for this portion of the meeting.

Committee Action

The Committee completed a report to Mr. James M. Taylor, Executive Director of Operations, Review of the Draft Safety Evaluation

Reports on the GE Advanced Boiling Water Reactor Design, dated April 13, 1992. In this report, the Committee identified several technical issues that need to be addressed in the Final Design Approval.

IV. Implementation of NRC Safety Goals (Open)

Note: Mr. D. Houston was the Designated Federal Official for this portion of the meeting.

Mr. Ward, Chairman of the Ad Hoc Working Group on Safety Goal Implementation, reviewed the activities of the Working Group and discussed various approaches to implementation of the Safety Goal Policy. He noted that a Safety Goal surrogate proposed by Dr. Kress seems like a good way to go from the Quantitative Safety Objectives to a large release guideline. The basis for this surrogate was depicted in a plot of the total core damage frequency versus the conditional containment failure probability. Mr. Ward noted that Dr. Lewis wanted to pursue an implementation plan that was much broader than what was proposed by the staff in SECY-91-270.

Mr. Ward presented a specific proposed Safety Goal implementation process in the form of a flow diagram. This process was intended to be an alternative plan to the one that the staff had proposed. Two flow diagrams were shown, one with cost-benefit considerations and one without cost-benefit considerations.

Dr. Lewis indicated that the primary use of the safety goal should be more strategic than the proposal for assessing the body of NRC regulations. He discussed the two separate and relatively independent aspects that were contained in his memorandum dated March 5, 1992. The first aspect addressed the global intent of Safety Goal implementation and the second addressed the day-to-day handling of regulatory questions.

Committee Action

The Committee did not come to an agreement on how to resolve this matter. Mr. Ward indicated that he would schedule another meeting of the Ad Hoc Working Group before the May 1992 Committee Meeting and would anticipate having a revised proposal before the Committee in May 1992.

V. Evaluation of Risk Associated with Low Power and Shutdown Operations of Nuclear Power Plants (Open)

Note: Mr. P. Boehnert was the Designated Federal Official for this portion of the meeting.

Dr. Kress, Acting Chairman, Plant Operations Subcommittee introduced this topic to the Committee. He noted that the Plant Operations Subcommittee met on April 1, 1992 to review this matter. The staff has completed their study of the risks incurred due to

operations conducted at low-power and shutdown conditions. Results of the staff's analysis are documented in the draft NUREG report, NUREG-1449. The industry, via NUMARC, also performed their own study and has issued a set of guidelines (NUMARC-91-06) for industry actions to assess shutdown management. Dr. Kress noted that two shutdown PRAs are being performed by NRC-RES. The coarse screening studies are complete; the PRAs themselves are to be completed next year.

Dr. Kress said that the Subcommittee felt that the staff's approach to this issue is proper, their study results are good, and their conclusions sound. The NUMARC effort complements the staff's program. He said that for this session, NRR will present a summary of the shutdown risk program and NUMARC will overview their guidance document.

Mr. Ward noted that the staff provided the Subcommittee with a response to the ACRS's request for information regarding the ability of licensees to effect containment hatch closure while at shutdown conditions. He noted that some plants would have problems in effecting efficacious closure of their hatches, and that some hatches are of the pressure-unseating design.

NRC Staff Presentation

Note: Due to the fact that only one ACRS Member (E. Wilkins) did not attend the above-noted Subcommittee meeting, the NRR presentation was shortened.

Mr. G. Holahan (NRR) noted the following points concerning the SD risk study:

- The NRC shutdown risk program was initiated in July, 1990, following the Vogtle loss of DHR event. The staff has interfaced with NUMARC on this effort.
- The results of the staff's study is documented in (draft) NUREG-1449. The staff developed a list of technical issues that they believe bear on the resolution of this matter. Of this list of 11 issues, the staff recommends the following issues be evaluated for formal regulatory analysis and possible regulatory action(s):
 - Outage planning and control (considered the most important issue)
 - Fire protection
 - Operations, Training, Procedures, and Contingency plans
 - Technical specifications
 - Instrumentation

Dr. Wilkins observed that the above five issues don't relate to all of the 11 issues cited by NRR. Mr. Holahan agreed but said that the five resolutions encompass all of the 11 items.

In addition to the above, the staff has proposed actions it will take to enhance shutdown risk. These actions impact NRC inspections, the operator licensing program, AEOD activities, and emergency planning.

The staff plans to complete the regulatory analysis and have recommendations for resolution of this issue by mid-year.

NUMARC Presentation

Mr. T. Pietrangelo of NUMARC discussed the industry actions taken to address this issue. A Shutdown Issues Working Group was formed by NUMARC; this Group developed a set of guidelines for industry actions to assess shutdown management as documented in NUMARC-91-06. NUMARC then recommended an industry initiative be undertaken associated with this report. Such an initiative requires all utilities to address this matter. Following the utilities assessment of current practices, vis-a-vis the 91-06 guidelines, improvements resulting from these assessments will be implemented for outages started after 12/31/92. NUMARC plans to submit comments on NUREG-1449 in the near future.

INPO and EPRI both have activities underway related to evaluation of shutdown risk. INPO representatives are conducting outage review visits of various plants and are developing outage management guidelines. EPRI has a program underway that is expected to result in development of risk management tools for utility use.

In response to a question from Mr. Ward, Mr. Pietrangelo said that INPO tried to develop a performance indicator that would measure "outage performance". The effort was not successful and was abandoned.

Committee Action

The Committee provided formal comment to the EDO in a report Evaluation of the Risks During Shutdown and Low-Power Operations for U.S. Nuclear Power Plants, dated April 9, 1992, concerning the NRC and industry efforts relative to management of shutdown risks.

VI. Policy Issues for Certification of Advanced LWR Plants (Open)

Note: Dr. M. El-Zeftawy was the Designated Federal Official for this portion of the meeting.

Mr. C. Wylie noted that the NRC staff has identified 34 policy issues it considers have to be resolved before certification of advanced LWR plants can occur. During the March 1992 ACRS meeting, the NRC staff asked for comments on the proposed policy issues.

These comments are to be provided by the end of May 1992 for the issues applicable to evolutionary plants and later for items applicable to passive plants.

Comments were provided by H. Lewis, D. Ward, and J. Carroll regarding issues assigned to them. The remaining subcommittee chairmen for the relevant subcommittees reported that they would submit comments during the May 1992 ACRS meeting. No special subcommittee meetings are planned in order to comment on these issues at the May 1992 ACRS meeting.

The cognizant subcommittee chairmen were asked to prepare action plans for nine "AREP" issues (Approval Requested for Both Evolutionary and Passive Plants). These are:

1. Core Concrete Interaction-Ability to Cool Core Debris
2. Post-Accident Sampling Systems
3. Elimination of Operating Basis Earthquake (OBE)
4. Tornado Design Basis
5. Site Specific Probabilistic Risk Assessments
6. Industry Codes and Standards
7. Leak-Before-Break
8. Classification of Main Steamlines of BWRs
9. Containment Leak Rate Testing

With regard to these issues, the following assignments and comments were made:

- Issue 1. No subcommittee meeting necessary - Dr. Catton will prepare comments.
- Issue 2. No subcommittee meeting necessary - Dr. Kerr will prepare comments.
- Issues 3, 4, and 5. No subcommittee necessary - Dr. Kress will prepare comments
- Issue 6. Dr. Lewis suggested that where the NRC has in the past approved more than one version of a code or standard, one should use the latest version. Where there is a version available that is later than that previously approved by the staff, decide on a "case-by case" basis. Since no criteria are mentioned, there is no basis for approval or disapproval.

Issues 7 and 8. No subcommittee Meeting necessary -- Dr. Shewmon will prepare comments.

Issue 9. Mr. Ward agreed with the recommendation that Type C tests should be conducted at a maximum interval of 30 months rather than 24 months.

Committee Action

Nine issues were assigned to the relevant topical subcommittees and the subcommittee chairman for each issue was asked to report on his plans for resolution. Mr. Wylie noted that the Committee will prepare a letter discussing these issues during the May ACRS meeting. Mr. Ward asked each subcommittee chairman to come to the April ACRS meeting with a written report saying what their subcommittee's plans are with regard to its assigned items.

VII. Report on the Thermal Hydraulic Phenomena Subcommittee Meeting on the Status of the Review of General Electric Power Uprate Program (Open)

Note: Mr. E. Igne was the Designated Federal Official for this portion of the meeting.

Dr. Catton reported on the March 26, 1992 meeting of the Thermal Hydraulic Phenomena Subcommittee regarding the status of the review of the General Electric (GE) Power Uprate Program. In general, the Subcommittee appeared to be favorably impressed with the approach being taken by GE for this Program.

Twelve BWR plants are planning to submit license amendments for a 5-percent power uprate. A power uprate is defined as a 5-percent increase in steam flow, which is about a 4.2-percent increase in core thermal power. It was stated that a 5-percent power uprate can be accommodated without major plant modifications. In fact, most BWR plants have performed the SSAR Chapter 15 analysis using the then "stretch power" or the now 5-percent power uprate. Dr. Catton stated that the use of data obtained from operating plants should be used to validate the SAFR code, noting that the results of PRAs performed with a 5-percent power uprate show no significant effects.

The NRC staff has reviewed the GE Licensing Topical Reports LTR-1 and has written its safety evaluation report. The staff is evaluating LTR-2 and its safety evaluation report is due in early summer of 1992. The licensee has submitted the Fermi Nuclear Plant, Unit 2, power uprate license amendment and the staff's safety evaluation report is due in the late summer of 1992.

Committee Action

The Committee decided not to provide comments on the GE plant Power Uprate Program at this time. After receipt of the NRC staff safety evaluation report on LTR-2, the Thermal Hydraulic Phenomena

Subcommittee Chairman will recommend to the Committee whether review is appropriate or whether review should be delayed until after issuance of the Fermi Nuclear Plant, Unit 2, safety evaluation report. If delayed, both will be reviewed at the same time.

VIII. Elimination of Burdensome Regulatory Requirements (Open)

NOTE: Mr. D. Houston was the Designated Federal Official for this portion of the meeting.

The Committee was briefed by Mr. E. Jordan, AEOD, on the activities of a special review to eliminate burdensome regulatory requirements.

Mr. Jordan indicated that this effort was in response to the President's State of the Union address and that the NRC is pushing to finish a report on this matter by April 27, 1992. He noted that the staff has had under way for some time a somewhat similar program to review regulations marginal to safety, with the program being directed by Dr. De, RES. Due to the current time constraints, all of the inputs from both programs were combined for consideration.

Mr. Jordan discussed the charter and organization to conduct the special review. He noted the criteria adopted for categorization of candidate regulations and the disposition process for each of three categories. He presented the following list of Category I and II items that the Review Group would probably designate for elimination on an expedited basis:

- Change FSAR update frequency (10CFR50.71)
- Change annual design change report (10CFR50.59(b))
- Delete unneeded event reports (10CFR50.72 and 10CFR50.73)
- Change radiological effluent report frequency (10CFR50.36a)
- Expedite rulemaking to allow continued receipt back of processed low level waste
- Amend regulations for contamination (10CFR20.1906(b)) monitoring of packages containing gases or special form sources
- Revise rules to eliminate need for exemptions for use of ZIRLO fuel cladding (10CFR50.44, 10CFR50.46, and Appendix K)
- Revise rules to eliminate room posting requirements for patients receiving diagnostic nuclear medicine procedures (10CFR20.1905)

Dr. Kerr asked if the special review process would extend beyond the April 1992 time frame. Mr. Jordan stated that the Review Group would probably recommend that the activities continue.

In response to questions, Mr. Jordan indicated that the Review Group had received a number of comments in regard to the designated TMI-2 requirements and to Appendix B, 20CFR50, Quality Assurance Criteria. In both cases, the Review Group concluded that these

changes should not be eliminated at this time but be given further consideration.

Committee Action

This was an information briefing. The Committee does want an opportunity to look at the recommendations resulting from the public comments on the long running NRC program directed at eliminating requirements that are marginal to safety, after public comments are received. The Committee offered no comments on the program to date.

IX. Proposed Test Program for the AP600 Passive Plant (Closed)

Note: Mr. P. Boehnert was the Designated Federal Official for this portion of the meeting.

Representatives of NRR (T. Murley) and RES (B. Sheron) discussed the status of the proposed program of integral systems testing (IST) for certification of the AP600 passive plant design. This discussion was held in closed session in order to protect proprietary information. Key points noted included:

- T. Murley noted that Westinghouse has now agreed to perform full-height, full-pressure IST in support of the AP600 design certification effort. The testing will be done by Westinghouse at the SPES facility located in Italy.
- Due to concerns relative to conflict of interest, Westinghouse and NRC tests will be funded separately by the respective organizations. There will be joint interactions concerning the test programs and matrixes via the establishment of some kind of a joint test group.
- Concern was expressed by Dr. Catton that FHFP testing in two facilities (SPES and ROSA-IV) appeared to be unnecessary, given the fact that the central concerns with the AP600 plant behavior exist at low-pressure conditions. He suggested that the NRC consider "piggybacking" FHFP tests at SPES when Westinghouse has concluded their test series. The staff indicated that ROSA can perform tests down to the low-pressure regime and that it is helpful to obtain FHFP data at two different volume scales (1/400 for SPES, 1/40 for ROSA). Dr. Murley also noted that the Commission raised the concern that ROSA may have to be used to address issues that cannot be adequately treated at SPES, if facility limitations are encountered.
- In response to questions from Dr. Kerr, Drs. Murley and Sheron indicated that they are comfortable with recommending use of the ROSA facility and that at this point the "die is well cast" vis-a-vis a commitment to use this facility. Dr. Murley indicated that the Commission did not evidence a strong

sentiment for authorizing the money required to construct a PHFP test facility in the U.S.

• Dr. Murley was unable to provide information relevant to the Commission's schedule for making a decision regarding use of ROSA-IV. Given this, Dr. Catton indicated that it may be appropriate for the Committee to prepare formal comment on this matter during this Meeting.

• Dr. Sheron indicated that the next meeting of the ACRS T/H Phenomena Subcommittee to continue discussion of this issue would be timely by late May. [Note: a meeting of the T/H Phenomena Subcommittee has been scheduled for June 3, 1992 to continue its review of this item.]

Committee Action

The Committee forwarded a report to the Commission, Full-Height, Full-Pressure Integral System Testing for the Westinghouse AP600 Passive Plant Design, dated April 6, 1992, on this matter. In addition, a meeting of the Thermal Hydraulics Phenomena Subcommittee held a closed meeting on June 3, 1992 to continue its review of this item.

X. Criteria to Accommodate Severe Accidents in ALWR Containment Designs (Open)

NOTE: Mr. D. Houston was the Designated Federal Official for this portion of the meeting.

Mr. Ward noted that the staff has issued SECY-92-070, Staff Comparison of ACRS-Proposed Criteria to Accommodate Severe Accidents in Advanced LWR Containment Designs with Related Criteria Proposed by Industry. He noted that the staff indicates that their objectives and the ACRS objectives are similar, i.e., to ensure that severe accidents are addressed in ALWRs, but the staff has chosen to approach these through different licensing processes than those recommended by the Committee.

Discussion with Office Directors

Dr. Murley, NRR, discussed the staff's position as given in SECY-92-070. He stated that the staff agreed with the technical goals given in the ACRS report of May 17, 1991, but that there was a difference of opinion on how to achieve those goals. One specific difference was that the staff did not want to pursue these goals by revisions to the General Design Criteria (GDC) as the ACRS had suggested. He stated that some of the proposed containment criteria would find their way into the certification rules for the first two evolutionary plants, the GE ABWR, and the CE Systems 80+. He said that all of the ACRS proposals would be addressed in the forthcoming proposed rulemaking for 10 CFR Part 50 on severe accident performance criteria for future LWR. One of the options

in the proposed rule is patterned after the ACRS recommendation, Alternative Three: General Design Criteria (GDC) Oriented Rule.

Committee Action

Mr. Ward said that the best way for the Committee to address this matter will be through interaction with the staff on the proposed rulemaking. This matter will be considered further during the May 6-9, 1992 meeting.

XI. Use of PRA in the Regulatory Process (Open)

NOTE: Mr. D. Houston was the Designated Federal Official for this portion of the meeting.

Dr. Lewis, Chairman of the Probabilistic Risk Assessment (PRA) Subcommittee, said that the Committee has been interacting with the staff for some time on the use of PRAs and that the staff is now prepared to discuss how they hope to bring about some coherence to the process.

Mr. M. Cunningham, RES, discussed the program plan for the PRA Working Group. He stated that the membership of the Group consists of personnel from several NRC Offices and contractors. He then discussed the objectives and tasks of the Group. The main objective of the program is to develop guidance on consistent and appropriate uses of PRA within the NRC. Mr. Cunningham noted that the initial efforts of the Group had been to gather information to determine what limitations or deficiencies exist in the present staff uses of PRA. In regard to this effort, he provided a copy of the survey that had been circulated to the staff, requesting appropriate input.

Mr. Cunningham discussed the charter for and the expected qualifications of the members of the planned External Review Group. He then showed a tentative schedule showing five meetings with the External Review Group and four meetings with ACRS in the next year. The Working Group anticipates issuing a final report on this matter in May 1993.

Drs. Lewis and Wilkins asked if any of the Working Group members had been relieved of their normal staff functions in order to serve full-time on this review, and if the staff had any idea how much staff time had been spent so far on Tasks 1 and 2. The staff indicated that Working Group members were not relieved of other duties, but that the EDO was very aware of the high priority assigned to this task. As to the time expended, the staff could only offer an approximate number in the hundreds of hours.

Dr. Lewis asked about the training and experiences of the Working Group and Review Group members in decision theory. The staff indicated that background in this subject was marginal.

Dr. Lewis expressed a concern about the involvement of the Working Group in the assessment of the trial implementation plan for the Safety Goal. He felt that this diluted their effort and should be removed from their charge. The staff indicated that it was part of the original charter of the Working Group.

Committee Action

The staff discussed a tentative schedule for the Working Group activities that proposed meetings with the ACRS in June, August and October of 1992 and a final meeting in March 1993.

The Committee forwarded comments to Mr. James M. Taylor, the Executive Director of Operation in a report, NRC Staff Probabilistic Risk Assessment Working Group Program Plan, dated April 9, 1992.

XII. Subcommittee Activities (Open/Closed)

A. Subcommittee Report on the Materials and Metallurgy/Maintenance Practices and Procedures Joint Meeting on February 13, 1992 (Open)

Note: Mr. E. Igne was the Designated Federal Official for this portion of the meeting.

Dr. Shewmon reported on the February 13, 1992 joint meeting of the Subcommittees on Materials and Metallurgy/Maintenance Practices and Procedures regarding the status of the ASME Research Task Force program on risk-based inspection guidelines. He noted that the presentations at the meeting described the project, its technical bases, the results to date, projected benefits, and expected applications.

The first volume of the risk-based inspection guidelines, a general methodology document, has been published. Volume 2, Part 1, which recommends specific methods for light water reactor nuclear power plant components, is currently being published and should be sent to the Commission shortly.

Future efforts planned for this program include the development of additional volumes to recommend specific methods for fossil facilities and other applications, i.e., aircraft, complex civil structures, etc.

Dr. Shewmon noted that the nuclear insurance industry is involved in this program. During plant inspections this process is being utilized by insurers to focus inspectors in determining which systems and components to inspect, and how often -- instead of inspecting all components whether they contribute to plant risk or not, as the current ASME Section XI Code specifies. This selective process saves insurers' inspection resources and has been shown to increase plant availability.

Conclusions

This was a Subcommittee report for information only.

B. Report of the ACRS Planning and Procedures Subcommittee Meeting Held on March 19, 1992 (Open)

Note: Mr. R. Fraley was the Designated Federal Official for this portion of the meeting.

Mr. Ward summarized the discussions and recommendations of the March 19, 1992 Planning and Procedures Subcommittee meeting. He noted that as a result of the March 5, 1992 Committee meeting with the Commission, a draft SRM requesting ACRS actions has been sent to the ACRS with a proposed SECY deadline of July/August 1992, concerning 1) Review of selected DACs, 2) AP600 integral system testing requirements, 3) Review of selected ITAACs, and 4) Impact of the regulatory process on reactor safety.

(Note: an SRM requesting ACRS action was issued, dated April 1, 1992)

Use of DACs

With regard to the Commission's recommendations on the DACs, Mr. Ward noted that the Planning and Procedures Subcommittee members recommended an ad hoc Subcommittee on Design Acceptance Criteria be established to consider these matters further. Proposed members are Mr. Carroll, Chairman, along with Mr. Michelson, Mr. Ward, Dr. Shewmon, Mr. Wylie and Dr. Catton, as members. The Subcommittee will meet the morning of May 6, 1992. The cognizant staff engineer will be Dr. El-Zeftawy.

AP600 Integral System Testing

With regard to the Commission's request on the AP600 integral system testing requirements, the Subcommittee on Thermal Hydraulic Phenomena will hold a meeting (after the April 1992 ACRS meeting) with representatives of Westinghouse, NRR, and RES to discuss Westinghouse's plans for testing at the SPES facility, the NRC staff's plans for testing at the ROSA IV facility, and ROSA-IV modifications that may be needed to accommodate the testing for AP600.

Accident Sequence Precursor Program

With regard to the Accident Sequence Precursor Program, specifically the impact of the regulatory process on reactor safety, the subcommittee recommended that 1) an ACRS Fellow follow-up on specific suggestions by Dr. Kerr (ATWS rule and the Station Blackout rule) that staff efforts may have contributed to improved reactor safety, 2) Joe Colvin, NUMARC, be invited to a future ACRS meeting to update his August 1989 comments to the ACRS about the impact of the regulatory process on reactor safety, and 3) Dr.

Lewis and Steve Mays inform the Committee on the results of their work to check on the basis for conclusions in the ASP report that core melt probabilities have decreased.

Mr. Ward discussed several other recommendations that the Subcommittee had made for Committee action, including:

- Safety Research Program

The Subcommittee discussed a suggestion for the elimination of the Safety Research Subcommittee and that assignments of research-related functions be made to specific lead and topical Subcommittees.

- ACRS Review of Selected ITAACs

Mr. Ward noted that Commissioner Rogers had requested that the ACRS review at least a couple of ITAACs to evaluate their scope and content. The Subcommittee proposed that the ACRS should begin its review by selecting two ITAACs, the standby liquid control system and the residual heat removal system (if available). Mr. Ward noted that the Subcommittee proposed that the Advanced Boiling Water Reactors Subcommittee (Michelson) review the ITAAC on the standby liquid control system and the Decay Heat Removal Systems Subcommittee (Ward) review the ITAAC on the residual heat removal system.

- Nuclear Safety Research Review Committee

It was suggested that the NRC Nuclear Safety Research Review Committee (NSRRC) Chairman be requested to brief the Committee during a near future meeting regarding his views on the strengths and weaknesses of the NRC Safety Research Program and also the Technical Assistance Program.

- Consideration of Research Activities

The Director of the NRC Office of Nuclear Regulatory Research should be invited to brief the ACRS during its December meetings, regarding the overall NRC research program. This will provide an opportunity for an ACRS report to the NRC that can be factored into the annual report to the U.S. Congress on the NRC research program.

Conclusions/Recommendations

The Committee members did not express any disagreement with the recommendations suggested by Mr. Ward, as written in the Draft Minutes of the March 19, 1992 Planning and Procedures Subcommittee meeting.

C. Report of the ACRS Planning and Procedures Subcommittee Meeting Held on April 1, 1992 (Open/Closed)

Mr. Ward summarized the discussions and recommendations of the April 1, 1992 Planning and Procedures Subcommittee meeting, as follows:

- Appointment of ACRS Members (Closed)

The members decided to recommend inviting Jim Cermak to the May ACRS meeting for interviews with the members.

The Committee agreed to send a letter to the Commission with three names for consideration for appointment to the Committee.

The Committee agreed to drop the names of several candidates that are not likely to be sent to the Commission in the future for consideration.

- Multilateral International Meeting of Advisory Groups (Open)

The Committee discussed an oral request made by Dr. Kessler, RSK, for a meeting to discuss some items of interest. It was agreed that such a preplanning meeting is appropriate. Proposed dates for this preplanning meeting were discussed. It was agreed that this meeting should be scheduled back-to-back with another meeting that would be of interest to the German group. The preferred date for this meeting is May 26, 1992, which is back-to-back with an ACRS subcommittee meeting on the Severe Accident Research Program.

Dr. Wilkins indicated that he will call Dr. Kessler, RSK and that Mr. Quittschreiber, ACRS Staff, will call Dr. Candeli, RSK Staff, to discuss the details of the proposed preplanning meeting.

- ACRS Bulletin Board System (Open)

All ACRS members are currently on the ACRS bulletin board system, BBS, except for Dr. Wilkins. The ACRS staff will make arrangements to get Dr. Wilkins on the BBS.

- ACRS Resources (Open)

The resources of the Committee were discussed. It was suggested that the request for Program Support funds be continued as in the past. Also, it was agreed that there would be a request for an increase of 2 FTEs for 1993 and 1 for 1994 for the ACRS. It was expected these would be in the ACRS Fellowship program.

Conclusions/Recommendations

The Committee members did not express any disagreement with the recommendations suggested by Mr. Ward, as written in the Draft

Minutes of the April 1, 1992 Planning and Procedures Subcommittee meeting.

XIII. Miscellaneous (Open)

The Committee directed Mr. Fraley to send a memorandum to RES indicating that the Committee has no objection to the staff's proposal to issue the proposed Revision 4 to Regulatory Guide 1.28 for public comment.

Note: Mr. R. Fraley did send a Memorandum, Proposed Revision 4 to Regulatory Guide 1.28, "Quality Assurance Program Requirements" to Brian W. Sheron, Director of the Division of Systems Research of the Office of Nuclear Regulatory Research, dated April 8, 1992.

The Committee directed Mr. Fraley to send a memorandum to RES indicating that the Committee decided not to review the proposed amendment to 10 CFR Part 72 that was sent to the ACNW/ACRS by memorandum from Mr. Beckjord, dated February 27, 1992.

Note: Mr. R. Fraley did send a Memorandum, Proposed Amendment to 10 CFR Part 72 to Add Two Spent Fuel Storage Casks to the List in 10 CFR 72.214 to Eric S. Beckjord, Director of the Office of Nuclear Regulatory Research, dated April 10, 1992.

XIV. Executive Session (Open)

The Committee completed the following Reports and Memoranda as noted.

REPORTS

- Full-Height, Full-Pressure Integral System Testing for the Westinghouse AP600 Passive Plant Design (Report to Chairman Selin, dated April 6, 1992)
- Evaluation of the Risks During Shutdown and Low-Power Operations for U.S. Nuclear Power Plants (Report to Mr. James M. Taylor, Executive Director for Operations, dated April 9, 1992)
- NRC Staff Probabilistic Risk Assessment Working Group Program Plan (Report to Mr. James M. Taylor, Executive Director for Operations, dated April 9, 1992)
- Review of the Draft Safety Evaluation Reports on the GE Advanced Boiling Water Reactor Design (Report to Mr. James M. Taylor, Executive Director for Operations, dated April 13, 1992)

MEMORANDA

- Final Rule to Amend 10 CFR 50.55a - Codes and Standards (Memorandum to James M. Taylor, Executive Director for Operations, dated April 9, 1992)

- Proposed Revision 4 to Regulatory Guide 1.28, "Quality Assurance Program Requirements" Memorandum for Brian W. Sheron, Director of the Division of Systems Research of the Office of Nuclear Regulatory Research, from R. F. Fraley, ACRS, dated April 8, 1992)

XV. SUMMARY/LIST OF FOLLOW-UP MATTERS

- With regard to FRA Working Group activities, Dr. Lewis asked for an estimate of the personnel resources to do the two tasks discussed: (1) How is the staff using PRA? and 2) What limitations exist in present staff uses of PRA? (Mr. Houston has the follow-up on this item.)
- A Committee briefing by the NRC staff and/or the Yankee Atomic staff on the lessons learned from the Yankee Rowe Nuclear Plant shutdown was requested following the issuance of a lessons learned report to be issued by the staff. (Mr. Igne has the follow-up on this item.)
- Chairman Selin asked the Committee whether it accepts the general concept of his proposal regarding the three overall work areas that he discussed. (Mr. Fraley has the follow-up on this item.)
- The Committee will not provide comments on the GE plant Power Uprate Program at this time. After receipt of the NRC staff safety evaluation report on LTR-2, the Plant Operations Subcommittee Chairman will recommend to the Committee whether review is appropriate or whether review should be delayed until after issuance of the Fermi Nuclear Plant, Unit 2, safety evaluation report. If delayed, both will be reviewed at the same time. (Mr. Boehnert has the follow-up on this item.)
- With regard to the Accident Sequence Precursor Program, and the comments made by Commissioner Rogers during the March 5, 1992 meeting regarding the impact of the regulatory process on reactor safety the following should be done:
 - 1) An ACRS Fellow should follow up on some specific suggestions by Dr. Kerr that staff efforts regarding the ATWS rule and the Station Blackout rule may have contributed to improved reactor safety. (Dr. Savio has the follow-up on this item.)
 - 2) Joe Colvin, NUMARC, should be invited to a future ACRS meeting to update his August 1989 comments to the ACRS about the impact of the regulatory process on reactor safety. (Mr. Fraley has the follow-up on this item.)
 - 3) The Committee should be informed of the results of the work by Dr. Lewis and Steve Mays to check on the basis for conclusions in the ASP report that core melt probabilities have decreased. (Dr. Savio has the follow-up on this item.)

- The Advanced Boiling Water Reactors Subcommittee should review the ITAAC on the standby liquid control system. (Dr. El-Zeftawy has the follow-up on this item.)
- The Decay Heat Removal Systems Subcommittee should review the ITAAC on the residual heat removal system. (Mr. Boenert has the follow-up on this item.)
- The Chairman of the Nuclear Safety Research Review Committee (NSRRC) should be invited to brief the Committee during a near future meeting regarding his views on the strengths and weaknesses of the NRC Safety Research Program and the Technical Assistance Program. (Mr. Fraley has the follow-up on this item.)
- The German RSK should be told that the Committee is in favor of the proposed preplanning meeting to discuss several matters with regard to a future multilateral international meeting. They should be told that the Committee's preferred date for this preplanning meeting is May 26, 1992 with an alternate date of May 5, 1992. (Mr. Quittschreiber has the follow-up on this item.) Note: The RSK representatives have agreed to the May 26, 1992 date for this meeting.
- The ACRS office should make arrangements to get Dr. Wilkins on the ACRS bulletin board. (Mr. Fraley has the follow-up on this item.)
- The Director of the Office of Research should be invited to the December ACRS meetings to brief the Committee on the NRC research program. This will provide an overview of the NRC program as the basis for a report to the NRC as appropriate. (Mr. Fraley has the follow-up on this item.)
- The members agreed to a "Summary of Proposed Changes to Subcommittee Organization and Assignments" (undated) to adjust work assignments, replace members who will be leaving, assign new members, etc., to be effective immediately following the meeting.
- Agreed to abolish the Safety Research Program Subcommittee and assign oversight responsibilities for research activities to 5 "lead" subcommittees.
- The Committee agreed to 1) eliminate several candidates from further ACRS member consideration, 2) send a memorandum to the Commission containing three names for consideration as acceptable candidates for ACRS membership, and 3) invite Dr. Cermak to the 385th meeting for interview by the members.

XVI. FUTURE ACTIVITIES (Open)

A. Future Agenda

The Committee agreed to a tentative schedule for the 385th, May 6-9, 1992 ACRS meeting as contained in Appendix II.

B. Future Subcommittee Activities

A list of future ACRS Subcommittee meetings was distributed to the Committee members (Appendix III).

The meeting was adjourned at 1:00 p.m., Saturday, April 4, 1992.

APPENDICES
MINUTES OF THE 384TH ACRS MEETING
APRIL 2-4, 1992

- I. Attendees
- II. Future Agenda
- III. Future Subcommittee Activities
- IV. List of Documents Provided to the Committee

APPENDIX I
MINUTES OF THE 384TH ACRS MEETING
APRIL 2-4, 1992

ATTENDEES

Public Attendees

THURSDAY, APRIL 2, 1992

H. M. Fontecilla, Va. Power
J. Trotter, EPRI
T. Meisenheimer, Bechtel/SERCH Licensing
M. Mikolanis, Bechtel/SERCH Licensing
Roger Huston, TVA
Richard Becker, GE
Margo Barron, Halliburton NUS/LIS
Hugh Fulcher, Scientech
R. Sweeney
Lloyd Zerr, STS
David Modeen, NUMARC
Charles Mullen, Newman & Holtzinger
Bob Newkirk, Detroit Edison
John Osborne, Baltimore Gas & Electric
Tony Pietrangelo, NUMARC

NRC Attendees

C. Poslusny, NRR
P. Fredrickson, EDO
R. Van Houten, SECY
C. Abbate, NRR
R. L. Nease, NRR
D. Crutchfield, NRR
J. Wilson, NRR
T. Boyce, NRR
Mat Taylor, OEDO
T. Heavey, OC
J. Scarborough, OCM/KR
G. Sege, RES
J. Heltemes, RES
R. C. Jones, NRR
M. Fleishman, OCM/KR
M. Caruso, NRR
R. Robinson, RES
R. Borchardt, NRR
J. Zeolinski, NRR

FRIDAY, APRIL 3, 1992

Alice Cummings, BECHTEL/SERCH Lic.
Stanley G. Catola, Detroit Edison
Bob Newkirk, Detroit Edison
Mohan Deora, Detroit Edison
Michael May, PECO
Kathy K. Berry, GE
H. Fontecilla, Va. Power
Tony Pietrangelo, NUMARC
C. Marrlon, Newman & Holtzinger
Jim Clarke, Energy Daily
Richard Becker, GE
Noel Fletcher, DOW/ALWR
John Trotter, EPRI
Mark Beaumont, Westinghouse
Roger Huston, TVA
D. Modeen, NUMARC

L. Marsh, NRR
C. Abbate, NRR
C. Carpenter, NRR
R. Stransky, NRR
G. Suh, NRR
J. Menning, NRR
B. McCabe, NRR
V. Ordaz, NRR
J. Shee, NRR
Mat Taylor, OEDO
R. Donovan, OIG
M. Dey, RES
C. Poslusny, NRR
R. Pierson, NRR
R. Van Houten, SECY
F. Hasselberg, NRR
D. Bessette, RES
C. McCracken, NRR
J. Monninger, NRR
T. King, RES
E. Heumann, OC
P. Eng, OC
W. Beckner, NRR
P. Frederickson, EDO
S. Coplan, NMSS
D. Rasmussen, AEOD

APPENDIX II
MINUTES OF THE 384TH ACRS MEETING
APRIL 2-4, 1992
FUTURE AGENDA

Tentative Presentation Schedule-385th ACRS Meeting, May 6-9, 1992

Implementation of NRC Safety Goal Policy - Discuss proposed alternate plan for implementation of NRC Safety Goal Policy.

Policy Issues for Certification of Evolutionary and Passive Plants - Review and comment on technical policy issues identified by the NRC staff in need of resolution in connection with the certification of standardized nuclear plants per 10 CFR Part 52. Representatives of the NRC staff and the nuclear industry will participate, as appropriate.

Update of NRC Standard Review Plan - Briefing and discussion regarding the status of the NRC staff program to update the Standard Review Plan in order to better accommodate the review of future nuclear power plants. Representatives of the NRC staff will participate, as appropriate.

Implementation of NRC Maintenance Rule - Briefing and discussion regarding the status of the NRC staff effort to develop a Regulatory Guide to implement the Maintenance Rule. Representatives of the NRC staff and the nuclear industry will participate, as appropriate.

Severe Accidents and Containment Performance Criteria - Review and comment on the proposed notice of advanced rulemaking regarding proposed 10 CFR Part 50 changes to address severe accidents and containment performance criteria. Representatives of the NRC staff and the nuclear industry will participate, as appropriate.

GE Simplified Boiling Water Reactor - Review and report on the test program proposed for the GE SBWR. Representatives of the NRC staff and GE Nuclear Energy will participate, as appropriate.
Pilot Simulator Examination Program - Briefing and discussion on the results of the NRC pilot simulator examination program. Representatives of the NRC staff will participate, as appropriate.

Activities of ACRS Subcommittees and Committee Members - Reports on and discussion of the activities of cognizant ACRS Subcommittees in designated areas of responsibility and activities of ACRS members related to Committee assignments including: (1) the status of activities related to integral system testing requirements for the AP600 passive nuclear plant, (2) the ABWR control room design, (3) the Design Acceptance Criteria process, (4) status of IPEs and development of Severe Accident Management Guidelines, and (5) plans for multinational meeting of advisory groups.

Proposed Definition of a Large Release Consistent with NRC Safety Goal Policy - Review and comment regarding NRC staff proposed definition of a large release of fission products consistent with the NRC safety goal policy.

Reactor Operating Experience - Briefing and discussion regarding the results of the AIT investigation of the November 6, 1991 event at the Millstone Nuclear Plant Unit 2 which involved failure of a moisture separator reheater drain line. Representatives of the NRC staff and the licensee will participate, as appropriate.

Diesel-Generator Reliability - Briefing and discussion regarding the proposed NRC rule on diesel-generator reliability. Representatives of the NRC staff and the nuclear industry will participate, as appropriate.

Future Committee Activities - Discuss anticipated Subcommittee activities and items proposed for consideration by the full Committee.

Appointment of ACRS Members - Discuss the qualifications of candidates proposed for consideration as Committee members.

Reconciliation of ACRS Comments/Recommendations - Discuss applicable replies from the NRC Executive Director for Operations regarding specific ACRS comments and recommendations.

Miscellaneous - Discuss topics related to the conduct of ACRS activities and specific issues that were not completed during previous meeting as time and availability of information permit.

APPENDIX III
MINUTES OF THE 384TH ACRS MEETING
APRIL 2-4, 1992
FUTURE SUBCOMMITTEE MEETINGS

April 3, 1992

Joint Individual Plant Examinations/Severe Accidents, April 21, 1992, 7920 Norfolk Avenue, Bethesda, MD (Houston), 8:30 a.m., Room P-110. The Subcommittees will discuss the status of the Individual Plant Examination (IPE) program and the development of Severe Accident Management Guidelines. Attendance by the following is anticipated, and reservations have been made at the hotels indicated for the night of April 20:

Dr. Kerr	NONE	Mr. Ward	HYATT
Dr. Catton	HYATT	Mr. Davis	NONE
Dr. Kress	HYATT		
Mr. Michelson	HYATT		

Joint Probabilistic Risk Assessment/Control and Electrical Power Systems, April 22, 1992 (tentative), 7920 Norfolk Avenue, Bethesda, MD (Boehnert), 8:30 a.m., Room P-422. The Subcommittees will discuss the proposed rule on Diesel Generator Reliability and related matters. Attendance by the Following is anticipated:

Dr. Lewis	Dr. Kress
Mr. Wylie	Mr. Michelson
Mr. Carroll (tent)	Mr. Ward
Dr. Kerr (tent)	Dr. Singpurwalla

42nd ACNW Meeting, April 22-24, 1992, Bethesda, MD, Room P-110.

Thermal Hydraulic Phenomena, April 23, 1992, 7920 Norfolk Avenue, Bethesda, MD (Boehnert), 8:30 a.m., Room P-422. The Subcommittee will discuss the General Electric Company's proposed test program to support design certification of the Simplified Boiling Water Reactor and the associated NRC staff evaluation. All, or portions, of this meeting will be closed to discuss proprietary information. Lodging will be announced later. Attendance by the following is anticipated:

Dr. Catton	Dr. Ehr
Mr. Carroll (tent)	Mr. Schrock
Dr. Kress	Dr. Sullivan
Mr. Ward	Dr. Zuber

Joint Computers in Nuclear Power Plant Operations/Advanced Boiling Water Reactors (OPEN/CLOSED), May 5, 1992, 7920 Norfolk Avenue, Bethesda, MD (Alderman), 8:30 a.m. to 2:30 p.m., Room P-110. The Subcommittees will discuss the control room design for the GE ABWR. Portions of this meeting will be closed to discuss proprietary information. Attendance by the following is anticipated, and reservations have been made at the hotels indicated for the night of May 4:

Dr. Lewis	HYATT	Dr. Kress	HYATT
Mr. Michelson	HYATT	Dr. Shewmon	NONE
Mr. Carroll	HOLIDAY INN	Mr. Ward	HYATT
Dr. Catton	HYATT	Dr. Wilkins	HYATT
Dr. Kerr	NONE	Mr. Wylie	HYATT

Joint Computers in Nuclear Power Plant Operations/Human Factors (OPEN/CLOSED), May 5, 1992, 7920 Norfolk Avenue, Bethesda, MD (Alderman), 3:00 p.m. to 5:30 p.m., Room P-110. The Subcommittees will discuss international computer activities with the NRC staff. Portions of this meeting will be closed to discuss foreign proprietary information. Attendance by the following is anticipated, and reservations have been made at the hotels indicated for the night of May 4:

Dr. Lewis	HYATT	Mr. Michelson	HYATT
Mr. Carroll	HOLIDAY INN	Dr. Shewmon	NONE
Dr. Catton	HYATT	Mr. Ward	HYATT
Dr. Kerr	NONE	Dr. Wilkins	HYATT
Dr. Kress	HYATT	Mr. Wylie	HYATT

Planning and Procedures, May 5, 1992, 7920 Norfolk Avenue, Bethesda, MD (Fraley), 3:00 p.m. - 5:30 p.m., Room P-422. The Subcommittee will discuss proposed ACRS activities and related matters. Qualifications of candidates nominated for appointment to the ACRS will also be discussed. Attendance by the following is anticipated. Reservations have been made at the hotels indicated for the night of May 4:

Mr. Ward	HYATT
Mr. Carroll	HOLIDAY INN
Dr. Shewmon	NONE

Ad Hoc Subcommittee on Design Acceptance Criteria, May 6, 1992,
7920 Norfolk Avenue, Bethesda, MD (El-Zeftawy), 8:30 a.m. - 12:00
Noon, Room P-110. The Ad Hoc Subcommittee will discuss use of DAC
in the regulatory process. Attendance by the following is
anticipated, and reservations have been made at the hotels
indicated for the night of May 5:

Mr. Carroll	HOLIDAY INN	Mr. Michelson	HYATT
Dr. Catton	HYATT	Mr. Ward	HYATT
Dr. Shewmon	NONE	Mr. Wylie	HYATT

385th ACRS Meeting, May 6 (1:00 p.m.), 7-9 (8:30 a.m.), 1992,
Bethesda, MD

Regional Programs, May 20, 1992, Region V Office, Walnut Creek, CA
(Boehnert), 8:30 a.m. The Subcommittee will discuss the activities
of the NRC Region V Lodging will be announced later.
Attendance by the following is anticipated:

Dr. Shewmon	Dr. Lewis
Dr. Catton	Mr. Ward
Mr. Carroll	Dr. Wilkins
Dr. Kerr	Mr. Wylie
Dr. Kress	

Joint Materials and Metallurgy/Advanced Reactor Designs, May 21,
1992, San Jose, CA (Igne), 8:30 a.m. The Subcommittees will
discuss the application of the high temperature structural
materials in the Advanced Liquid-Metal Reactor (ALMR). Lodging will
be announced later. Attendance by the following is anticipated:

Dr. Shewmon	Dr. Kress
Mr. Ward	Dr. Lewis
Mr. Carroll	Dr. Wilkins (tent)
Dr. Catton	Mr. Wylie
Dr. Kerr	Mr. Snow

Working Group on International Activities, May 26, 1992 (tentative), 7920 Norfolk Avenue, Bethesda, MD (Quinn-Reiber), 8:30 a.m., Room P-110. The Working Group will hold a preliminary discussion with some members of the German Advisory Committee, RSK, to develop plans for the Second International Quadripartite meeting to be held in late 1992 or 1993. Lodging will be announced later. Attendance by the following is anticipated:

Dr. Wilkins	Dr. Lewis
Mr. Carroll	Dr. Shewmon
Dr. Catton	Mr. Ward
Dr. Kerr	

Severe Accidents, May 27, 1992, 7920 Norfolk Avenue, Bethesda, MD (Houston), 8:30 a.m., Room P-110. The Subcommittee will review the revision to NUREG-1365, Severe Accident Research Program Plan (to be provided about May 1, 1992). Lodging will be announced later. Attendance by the following is anticipated:

Dr. Kerr	Mr. Ward
Dr. Catton	Mr. Davis
Dr. Kress	Dr. Lee
Dr. Shewmon	Dr. Siess

43rd ACNW Meeting, May 28-29, 1992, Bethesda, MD, Room P-110.

Thermal Hydraulic Phenomena, June 3, 1992, 7920 Norfolk Avenue, Bethesda, MD (Boehnert), 8:30 a.m., Room P-110. The Subcommittee will review the Westinghouse's and the NRC staff's proposed test programs for support of the AP600 passive plant design certification effort. All, or portions, of this meeting will be closed to discuss proprietary information. Lodging will be announced later. Attendance by the following is anticipated:

Dr. Catton	Dr. Dhir
Mr. Carroll	Mr. Schrock
Dr. Kerr (tent)	Dr. Sullivan
Dr. Kress	Dr. Zuber
Dr. Ward	
Dr. Wilkins	

Planning and Procedures, June 3, 1992, 7920 Norfolk Avenue, Bethesda, MD (Fraley), 3:00 p.m. - 5:30 p.m., Room P-422. The Subcommittee will discuss proposed ACRS activities and related matters. It will discuss also qualifications of candidates nominated for appointment to the ACRS. Lodging will be announced later. Attendance by the following is anticipated:

Mr. Ward
Mr. Carroll
Dr. Shewmon

386th ACRS Meeting, June 4-6, 1992, Bethesda, MD

44th ACNW Meeting, June 25-26, 1992, Hanford, WA.

387th ACRS Meeting, July 9-11, 1992, Bethesda, MD

45th ACNW Meeting, July 30-31, 1992, Bethesda, MD, Room P-110.

388th ACRS Meeting, August 6-8, 1992, Bethesda, MD

46th ACNW Meeting, August 13-14, 1992, Bethesda, MD, Room P-110.

389th ACRS Meeting, September 10-12, 1992, Bethesda, MD

ACNW Working Group on Performance Assessment, September 23, 1992 (tentative), Bethesda, MD, Room P-110

Advanced Boiling Water Reactors, September 23, 1992, 7920 Norfolk Avenue, Bethesda, MD (El-Zeftawy), 8:30 a.m. Room P-422. The Subcommittee will review the Final Safety Evaluation Report (FSER) for the GE ABWR design. Lodging will be announced later. Attendance by the following is anticipated:

Mr. Michelson	Dr. Shewmon
Mr. Carroll	Mr. Ward
Dr. Catton	Mr. Wylie
Dr. Kress	Mr. Costner

47th ACNW Meeting, September 24-25, 1992, Bethesda, MD, Room P-110.

390th ACRS Meeting, October 8-10, 1992, Bethesda, MD

ACNW Working Group on Inadvertent Human Intrusion Related to the Presence of Natural Resources at a High-Level Waste Site, October 21, 1992, Bethesda, MD, Room P-110.

Advanced Boiling Water Reactors, October 21, 1992, 7920 Norfolk Avenue, Bethesda, MD (El-Zeftawy), 8:30 a.m. Room P-422. The Subcommittee will continue its review of the Final Safety Evaluation Report (FSER) for the GE ABWR design. Lodging will be announced later. Attendance by the following is anticipated:

Mr. Michelson	Dr. Shewmon
Mr. Carroll	Mr. Ward
Dr. Catton	Mr. Wylie
Dr. Kress	Mr. Costner

48th ACNW Meeting, October 22-23, 1992, Las Vegas, NV.

ACNW Working Group on the Impact of Long-Range Climate Change in the Area of the Southern Basin and Range, November 18, 1992 (tentative), Bethesda, MD, Room P-110.

Advanced Pressurized Water Reactors, Date to be determined (May/June), Bethesda, MD (Alderman). The Subcommittee will continue its review of the ABB CE System 80+ Design Certification. Topics being proposed for discussion include: Engineered Safety Feature Systems; and incorporation of the requirements resulting from the resolution of USIs and GSIs into the System 80+ design. Attendance by the following is anticipated:

Mr. Carroll	Mr. Michelson
Dr. Catton	Dr. Shewmon
Dr. Kerr	Mr. Ward
Dr. Kress	Mr. Wylie

Joint Thermal Hydraulic Phenomena/Core Performance, Date to be determined (June/July, tentative), Bethesda, MD (Boehnert). The Subcommittees will continue the review of the issues pertaining to BWR core power stability. Attendance by the following is anticipated:

Dr. Catton	Dr. Dhir
Dr. Wilkins	Dr. Lee
Dr. Kerr	Dr. Lipinski
Dr. Kress	Mr. Schrock
Dr. Shewmon	Dr. Sullivan
	Dr. Zuber

Decay Heat Removal Systems, Date to be determined (July, tentative), Bethesda, MD (Boehnert). The Subcommittee will review the proposed final resolution for Generic Safety Issue 23, "Reactor Coolant Pump Seal Failures." Attendance by the following is anticipated:

Mr. Ward	Mr. Michelson
Dr. Catton	Mr. Wylie
Dr. Kerr	Mr. Davis

Thermal Hydraulic Phenomena, Date to be determined (September/October), Bethesda, MD (Boehnert). The Subcommittee will continue its review of the NRC staff program to address the issue of interfacing systems LOCAs. Attendance by the following is anticipated:

Dr. Catton	Dr. Dhir
Dr. Kerr	Mr. Schrock
Dr. Kress	Dr. Sullivan
Mr. Ward	Dr. Zuber
Dr. Wilkins	

Thermal Hydraulic Phenomena, Date to be determined, Bethesda, MD (Boehnert). The Subcommittee will review the status of the application of the Code Scaling, Applicability, and Uncertainty (CSAU) Evaluation Methodology to a small-break LOCA calculation for a B&W plant. Attendance by the following is anticipated:

Dr. Catton	Dr. Dhir
Dr. Kerr	Mr. Schrock
Dr. Kress	Dr. Sullivan
Mr. Ward	Dr. Zuber
Dr. Wilkins	

APPENDIX IV
MINUTES OF THE 384TH ACRS MEETING
APRIL 2-4, 1992
DOCUMENTS PROVIDED TO THE COMMITTEE

[NOTE: Some of materials listed may have been provided for Internal ACRS Use Only.]

MEETING NOTEBOOK

GE ADVANCED BOILING WATER REACTORS

- Tentative Schedule
- Status Report with attachment (draft proposed ACRS letter)

PROPOSED PLAN FOR IMPLEMENTATION OF THE NRC QUANTITATIVE SAFETY GOAL POLICY

- Tentative Agenda
- Status Report with Attachments:
 - SECY-91-270, dated August 27, 1991, Interim Guidance on Staff Implementation of the Commission's Safety Goal Policy
 - Memorandum dated February 11, 1992 from D. Houston, ACRS Staff, for D. Ward et al., Subject: Project Status Report for the Ad Hoc Working Group Meeting, February 28, 1992, Denver, CO
 - Staff Requirements Memorandum (SRM) dated June 15, 1990, Subject: SECY-89-102 - Implementation of the Safety Goal
 - ACRS report dated September 11, 1990, for Chairman Carr, Subject: Implementation of the Safety Goal Policy
 - ACRS report dated December 18, 1991 for Chairman Selin, Subject: SECY-91-270, "Interim Guidance on Staff Implementation of the Commission's Safety Goal Policy"
 - Letter dated January 15, 1992, from J. Taylor, EDO, for D. Ward, ACRS Chairman regarding ACRS report of December 18, 1991 (listed immediately above)
 - Memorandum dated January 27, 1992 from D. Houston, ACRS staff, for ACRS Members, Subject: Commission Briefing on Status of Implementation of Safety Goal Policy Statement, January 17, 1992
 - SRM M92020117A, dated February 21, 1992, with guidance on ACRS and Staff activities for implementation of the Safety Goal Policy
 - Comments of Member H. Lewis on Safety Goal Policy Implementation
 - Comments of Member T. Kress on Safety Goal Policy

EVALUATION OF RISK ASSOCIATED WITH LOW POWER AND SHUTDOWN OPERATIONS OF NUCLEAR POWER PLANTS

- Project Status Report with attachments:
 - SECY-92-067, Evaluation of Shutdown and Low-Power Operation
 - Memorandum dated January 10, 1992 from A. Thadani, NRR for D. Ward, ACRS Chairman, Subject: Information on Containment Hatches

- ACRS letter dated August 10, 1991, to J. Taylor, EDO, Subject: Evaluation of Risks During Low Power and Shutdown Operations of Nuclear Power Plants
- Excerpt, pp. 2-8, of Certified Minutes of 374th ACRS Meeting discussion regarding risk during low-power and shutdown modes of operation
- NRC Information Notice 91-81: Switchyard Problems that Contribute to Loss of Offsite Power
- Presentation materials provided during the meeting

POLICY ISSUES FOR CERTIFICATION OF ADVANCED LIGHT WATER REACTOR PLANTS

- Tentative Schedule
- Project Status Report with attachment
 - Draft SECY on subject

ELIMINATION OF BURDENSOME REGULATORY REQUIREMENTS

- Tentative Agenda
- Status Report with attachment:
 - SECY-91-224, dated July 29, 1991, Elimination of Requirements Marginal to Safety
- Memorandum dated March 18, 1992 from Mark Stella, ACRS Senior Fellow, Subject: Suggestions for Regulatory Relief
- Presentation materials provided during the meeting

MEETING WITH DIRECTOR, NRC OFFICE OF NUCLEAR REACTOR REGULATION AND REPRESENTATIVE OF NRC OFFICE OF NUCLEAR REGULATORY RESEARCH - PROPOSED PROGRAM FOR AP600 INTEGRAL SYSTEM TESTING

- Project Status Report with attachments:
 - ACRS letter, dated March 10, 1992, Subject: Requirements for Full-Height, Full-Pressure Integral System Testing of the Westinghouse AP600 Passive Plant Design
 - Staff Requirements Memorandum dated March 12, 1992, Subject: Periodic Meeting with the Advisory Committee on Reactor Safeguards
 - Staff Requirements Memorandum dated March 20, 1992 from S. Chilk for J. Taylor, EDO, W. Parler, OGC, R. Fraley, ACRS, Subject: Staff Requirements - SECY-92-037 - Need for NRC-Sponsored Confirmatory Integral System Testing of the Westinghouse AP600 Design
- Memorandum dated March 13, 1992 from Mark Stella, ACRS Senior Fellow, Subject: Commission Meeting on AP600 Integral Systems Testing Requirements (March 11, 1992)

IMPLEMENTATION OF ACRS RECOMMENDATIONS ON CONSISTENT USE OF PROBABILISTIC RISK ASSESSMENT (PRA)

- Tentative Schedule
- Project Status Report with attachments:
 - ACRS report dated July 19, 1991, to Chairman Selin, Subject: The Consistent Use of Probabilistic Risk Assessment
 - Letter dated October 1, 1991, from J. Taylor, EDO to D. Ward, ACRS Chairman, regarding ACRS report of July 19, 1991 listed immediately above

- Staff Requirements Memorandum M911216 dated January 24, 1992 for J. Taylor, EDO, Briefing on Regulatory Application of PRA, 10:00 A.M. Monday, December 16, 1991, Rockville, MD
- Minutes from the First and Second Meetings of PRA Working Group
- Memorandum dated March 24, 1992, from E. Beckjord, RES, for R. Fraley, ACRS, Subject: PRA Working Group Program Plan
- Presentation materials provided during the meeting

ASME RISK BASED INSPECTION

- status Report with attachment:
 - Highlights/Minutes of the Subcommittee Meeting on ASME Risk Based Inspection Held February 13, 1992

HANDOUTS

- Memorandum dated March 30, 1992 from D. Ward, ACRS Chairman, for ACRS Members, Subject: Discussion of an approach to Implementation of the Safety Goal Policy with attachments

FUTURE ACRS ACTIVITIES

- Memorandum dated April 2, 1992, from R. Savio, Assistant Executive Director, ACRS, for ACRS Members, Subject: Future ACRS Activities - 385th ACRS Meeting - May 6-9, 1992 with attachments
- Comments on Assigned Issues from "SON OF 90-106" from ACRS Members D. Ward, H. Lewis, and J. Carroll

REVIEW OF GENERAL ELECTRIC POWER UPRATE PROGRAM

- Project Status Report
- SECY-91-401, dated December 12, 1991, Subject: General Electric Boiling Water Reactor Power Uprate Program
- Consultant (Dr. J. Lee) Report on March 26, 1992 Meeting of Thermal/Hydraulic Phenomena Subcommittee, on this subject
- Summary/Highlights of March 26, 1992 Meeting of Thermal/Hydraulic Phenomena Subcommittee on this subject

ADDITIONAL HANDOUT DOCUMENTS FOR MEETING WITH NRR AND RES OFFICE DIRECTORS

- ACRS Report to Chairman Carr dated May 17, 1991, Subject: Proposed Criteria to Accommodate Severe Accidents in Containment Design
- SECY-92-070, Staff Comparison of ACRS-Proposed Criteria to Accommodate Severe Accidents in Advanced Light Water Reactor Containment Designs with Related Criteria Proposed by Industry (M910607A), dated February 28, 1992 (released to PDR 3/25/92)
- Draft Summary Minutes of ACRS Planning & Procedures Subcommittee Meeting, March 19, 1992, Dallas, Texas

- ACRS Report to Chairman Selin dated February 14, 1992, Subject: Use of Design Acceptance Criteria During 10 CFR Part 52 Design Certification Reviews
- Letter dated March 10, 1992 from J. Taylor, EDO, to D. Ward, ACRS Chairman, Subject: Use of Design Acceptance Criteria During 10 CFR Part 52 Design Certification (regarding February 14, 1992 ACRS report listed above)
- Memorandum dated March 31, 1992, D. Ward, ACRS Chairman, for ACRS Members, Subject: Discussion of SECY-92-070, Staff response to ACRS letter on containment criteria
- Memorandum dated April 1, 1992 from E. Beckjord, RES, for R. Fraley, ACRS, Subject: Information on AP-600 Testing, with enclosure
- Letter dated April 1, 1992 from J. Taylor, EDO, to D. Ward, ACRS Chairman, Subject: Requirements for Full-Height, Full-Pressure Integral System Testing of the Westinghouse AP600 Passive Plant Design
- Memorandum dated March 27, 1992, from J. Taylor, EDO, for NRC Commissioners, Subject: Staff Requirements - SECY-91-037 - Need for NRC-Sponsored Confirmatory Integral System Testing of the Westinghouse

ELIMINATION OF BURDENSOME REGULATIONS

- Handout from Public Meeting for Special Review of NRC Regulations Held March 27, 1992 at Hyatt-Bethesda, MD
- Minutes of ACRS Planning and Procedures Subcommittee Meeting, April 1, 1992, Bethesda, MD