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CERTIFIED: June 7, 1980

MINUTES OF THE ACRS AD HOC SUBCOMMITTEE
MEETING ON THE NRC ACTION PLANS DEVELOPED
AS A RESULT OF THE TMI-2 ACCIDENT - APRIL 1-2, 1980

The ACRS Ad Hoc Subcommittee on the NRC Action Plans Developed as a Result of the TMI-2 Accident, met in Room P-118, Phillips Building, 7920 Norfolk Avenue, Bethesda, Maryland at 8:30 A.M. on April 1 and 2, 1980 to review Draft 3 of NUREG-0660 "Action Plans Developed as a Result of the TMI-2 Accident." Notice of this meeting was published in the Federal Register on March 17 and 24, 1980 (Attachments A and B). A copy of the detailed schedule of presentation is attached (Attachment C). No written statements from the public were received, however, representatives of the General Electric Company and the Vermont Yankee nuclear power plant asked for and were granted time to make oral statements (written comments from the General Electric Company regarding BWR Mark I & II Containment Inerting were submitted to NRC Chairman John F. Ahearne on March 7, 1980).

No written reports were issued or approved by the Subcommittee at this meeting. A list of documents provided to the Subcommittee during this meeting is attached (Attachment D).

Attendees

ACRS

H. Etherington, Chairman
W. M. Mathis
C. P. Siess
I. Catton, Consultant
W. Lipinski, Consultant
Z. Zudans, "
J. C. McKinley, Staff (DFE)
J. Stampelos, Fellow

NRC STAFF

R. J. Mattson
G. Zech
H. Denton
P. Riehm
J. Milhoan
W. M. Morrison
G. Arndt
P. Vineyard
S. Hedlund
Jim Blaka
Warren Minners
Ron Scroggins
Robert Purple
Paul F. Collins
L. P. Crocker
Voss A. Moore
Samuel E. Bryan
Dennis Ziemanin

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Attendees - (continued)

PUBLIC

R. McDermott, Bechtel
R. Borsum, B&W
Joanne Dunn, McGraw & Hill
Betty Schellhardt, James & Monroe
Michael A. Pierson, Ebasco Ser. Inc.
R.H. Buchholz, GE
S.S. Stark, GE
K.W. Holtzclaw, GE
C.D. Sawyer, GE
Bruce Slifer, Yankee Atomic
Bob Sojka, Yankee Atomic

NRC STAFF

Tom Murley
W. Paulson
J. A. Norberg
D. Skovholt
E. C. Wenzinger
E. Jordan
Bernie Weiss
R.Wayne Housten
W. C. Burke
Michael Parsont
R. A. Clark
M. A. Taylor
O. S. Akalin
Jim Richardson
Milt Stolzenberg
Bob Bernero
Vic Benaroyer
Ashok Thadaw
Paul Check
Brian Grimes
Jack M. Bell
James H. Conran
W. E. Kreger
L. Higginbothan
Perkins, SP
R.P. Denise

Opening Statement

Mr. Etherington, Subcommittee Chairman, opened the meeting at 8:45 A.M. with a statement regarding the conduct of the meeting in accordance with the provisions of the Federal Advisory Committee Act and the Government in the Sunshine Act. Mr. J. C. McKinley was the designated federal employee.

Meeting With Mr. Harold Denton, Director of Nuclear Reactor Regulation (Open)

Prior to the commencement of the meeting, Mr. Denton invited the Subcommittee members up to his office to welcome them to the NRC's Bethesda offices. After a brief informal social exchange, the Subcommittee returned to the regular meeting room and began its formal meeting.

Mr. Denton officially welcomed the Subcommittee to the NRC's Bethesda offices and expressed the hope that further meetings could be held in Bethesda. He took this opportunity to describe the recently announced reorganization of the Office of Nuclear Reactor Regulation (NRR) and pointed out that the reorganization had not yet been implemented. The new organization will have:

Division of Project Management (Darrell Eisenhut)

Division of Engineering (Dick Vollmer)

Division of Systems Integration (Denwood Ross)

Division of Human Factors (Steve Hanauer)

Division of Safety Technology (Roger Mattson)

Three Mile Island Program Office (Bernie Snyder)

Planning and Program Analysis Staff

Mr. Denton described each of the Divisions down to the Branch level and expressed his desire to discuss the reorganization with the ACRS during its April 10-12, 1980 meeting. He noted that there were a number of vacancies and he would like suggestions for candidates to fill them.

Executive Session (Open)

Mr. Etherington conducted a brief Executive Session to outline the status of the review of Draft 3 of NUREG-0660, the Action Plan, and to propose a procedure to move forward with the review at this meeting. It was agreed to proceed generally as outlined in the tentative detailed schedule (Attachment C).

Meeting With the NRC Staff (Open)

Mr. Mattson began this portion of the meeting by distributing a draft copy (later made final) of a memorandum from William J. Dircks (signed by T. A. Rehm) for Chairman Ahearne responding point by point to the ACRS report of March 11, 1980 on Near-Term Operating License Items From Draft 3 of NUREG-0660. The NRC Staff concluded that there was nothing in the ACRS report that should be added to or deleted from the NTOL list of requirements although there was some advice on implementation, further consideration, and additional long term considerations. Mr. Mattson summarized the contents and intent of the letter. The Subcommittee restated its view that it would be beneficial for the architect-engineer as well as the NSSS manufacturer to review the plant emergency procedures.

Mr. Mattson stated the NRC Staff's preference for subcooling meters over void meters in order to use existing detectors and to tell the operators they are approaching a problem rather than wait and then tell them they have a problem. The short term improvement was the saturation meter and the long term improvement will be the reactor vessel water level indication.

Mr. Mattson agreed that the feed and bleed method of reactor cooling should receive more deliberate study and that should be added to the action plan.

Mr. Mattson next distributed a draft summary of the TMI Action Plan Response to the AIF Comments. The summary is in tabular form identifying the section of the action plan where each item is addressed, a short description, NRC plans to implement the item, and the resources needed for implementation.

Mr. Mattson also distributed a statement of policy regarding the implementation of the action plan (see Attachment E).

Next, Mr. Mattson distributed a table of Priorities and Status of Items in the TMI-2 Action Plan (Attachment F). He pointed out that in the "Initiate Action" column if there is an "X" under FY80 or FY81 it means that the action has already begun or will begin in the next few months. If the "X" is in the FY82 column then action has been deferred until some time beyond FY81. He also distributed a memorandum describing the NRR Management Review of Draft 3 of the TMI Action Plan which describes the actions that will have to be reprogrammed to accommodate the higher priority Action Plan items. He noted that except for the reliability of AC power, all work by NRR on generic issues, other than those defined as unresolved safety issues, will be deferred for at least six months.

The Subcommittee reviewed the priorities and status of the Action Plan items chapter by chapter. Mr. Milhoan covered Chapter 1 on Operational Safety, and the Subcommittee members and consultants discussed each item including such aspects as; which NRC office was responsible for the action, interaction with

various segments of industry, and time frames for accomplishment of various actions or requirements.

Mr. Scroggins covered the items in Chapter 2, "Siting and Design". Mr. Bernero indicated that he hoped six people from NRR would be assigned full time to the IREP program within the next few weeks. The IREP program was discussed at some length with regard to resources required, scope, and purpose.

Mr. Grimes covered the items in Chapter 3 "Emergency Preparations and Radiation Protection." He described recent actions taken to implement the items in the Action Plan. These included visits to operating plants to review emergency preparedness and the upgrading of emergency planning. Improvements in this area will be codified by a new regulation. Licensees will be required to notify local, State, and Federal officials and local officials will notify the public. There must be a way to quickly notify the public. The Federal Emergency Management Agency (FEMA) has the lead responsibility for offsite preparedness.

Part C of Chapter 3 deals with public information and Mr. Ingrams discussed this aspect with the Subcommittee. He noted that the NRC is prohibited by law from promoting nuclear power. The Subcommittee suggested a more aggressive public education program and suggested that this might be done through some other organization. It was noted that the problems with the public are not intellectual but emotional, and the educational effort should be aimed at that level. It was Mr. Mattson's view that the Commission had no policy with regard to educating the public or the news media representatives.

Mr. Higginbotham covered the items in Chapter 4 "Practices and Procedures: The Subcommittee discussed the training of NRC professional personnel extensively and was told about training courses and opportunities within and outside of the NRC including opportunities to gain actual plant operating experience at some of the TVA facilities.

There was also some discussion of the concept of standardization and how far it should extend.

Mr. Mattson very briefly discussed the items in Chapter 5, "NRC Policy, Organization and Management. During the review of Draft 2, the Commissioners and the Executive Director for Operations identified a number of things that they needed to do to improve the regulation of nuclear power. The lead office responsibility for all items in Chapter 5 is with the Commissioners and no schedule is shown.

In summary, Mr. Mattson said that he hoped that with this review of Draft 3 and the completion of Draft 4, in three weeks or so, that the Action Plan represents the considered judgement of the agency as to what is an adequate response to the accident at Three Mile Island.

In general, the Subcommittee took no major exceptions to the proposed action plan although some members and consultants took mild exception to some priorities.

Meeting With Representatives of the General Electric Company, Vermont Yankee, and the NRC Staff

Mr. Buchholz (GE) described the inherent safety features of the BWR including the multiple sources and systems for supplying water to the core. He also restated GE's view that inerting of the Mark I and II containments is unnecessary and may actually be detrimental to safety.

Mr. Sawyer (GE) further described the features of the BWR designed to prevent or mitigate a core melt accident. These include six high pressure and nine low pressure pumps to deliver water (not all of these are safety grade), capability to depressurize rapidly, strong natural circulation through the core, high point venting, and reliable reactor vessel water level indication.

Mr. Stark (GE) summarized the NRC Staff position paper on inerting of Mark I & II containments which assumes significant hydrogen generation, assesses the containment pressure response and concludes that inerting is necessary for small (Mk. I & II) containments while leaving the large containments for study during a rulemaking procedure. GE believes there is no demonstrated need, no significant increase in containment integrity and could be counterproductive to safety. It was noted that one death has occurred at a foreign reactor as a result of an operator entering an inerted containment and it was pointed out that inspections and investigations of modest leaks are seriously hampered by the inerting requirement.

Mr. Slifer from Vermont Yankee described the operation of that plant without inerting and the various times that entry into containment were made to investigate and correct minor problems. He felt that this contributed to good operating and maintenance practice.

Neither GE nor Vermont Yankee offered comparative data for inerted containments.

Most Subcommittee members agreed that they would be uncomfortable, at least, in having personnel, properly equipped, enter an inerted containment. The NRC Staff pointed out that containments can be deinerted before a plant is completely shutdown and so in some cases repairs can be made or problems corrected before a complete shutdown and normal operations resumed.

Mr. Denise (NRC) described the NRC Staff position on inerting containment (see SECY 80-107). For small volume containments like the Mark I & II designs, the Staff believes inerting is required. The Commission has not yet agreed with that position. The Staff intends to formally ask the ACRS for its views on the question of inerting the Mark I & II containments.

The Subcommittee appeared to concur with the NRC Staff requirement that Mark I & II containments should operate with an inert atmosphere but also indicated that further studies should be pursued on alternate means of hydrogen control.

It was agreed that Mr. Mattson would make an abbreviated presentation of the NRC Staff response to the March 11, 1980 ACRS letter on the NTOL items, the proposed response to the AIF comments, and a chapter by chapter review of the Action Plan for the full Committee on April 10. The Committee would be asked to identify items to be deleted or added to each chapter but not to discuss each item in detail. Mr. Etherington agreed to have a tentative draft report prepared for consideration by April 10.

A complete transcript of the meeting is on file at the NRC Public Document Room at 1717 H St., N.W., Washington, D.C. or can be obtained from International Verbatim Reporters, Inc., 499 South Capitol Street, S.W. Suite 107, Washington, D. C. 20002 (202-484-3550).

$500,000 or 18 months in duration for individual grants. To maximize competition for the award, both profit making and non-profit organizations are eligible to apply; however, a fee will not be paid.

Note.—This announcement originally appeared in the Federal Register on February 27, 1980. This announcement is only to extend the due date for papers from April 1, 1980 to April 15, 1980.

Further information and copies of the solicitation can be obtained by contacting Richard S. Laymon, Office of Program Evaluation, NIJ, 633 Indiana Avenue, N.W., Washington, D.C. 20531, or phone (301) 492-9085.

Dated: March 7, 1980.

Harry M. Bratt,

Primary and Principal Assistant, to the Acting Director, National Institute of Justice.

[FR Doc. 80-8029 Filed 3-14-80; 8:45 am]

BILLING CODE 4410-18-M

NATIONAL COMMISSION ON UNEMPLOYMENT COMPENSATION

Meeting

The Twenty-Third meeting of the National Commission on Unemployment Compensation is scheduled to be held at the Skirvin Plaza Hotel, Oklahoma City, Oklahoma. The meeting will begin at 9:00 A.M., on Thursday, March 27, and conclude at 12 Noon on Saturday, March 29. The agenda is as follows:

Thursday, March 27

1. 9:00 A.M.—12:30 P.M.
   Report on Legislative Developments.
   Report on Administrative Financing.

Break 12:30

2. 2:00 P.M.—4:00 P.M.
   Commission discussion: Federal Role in Financing of Reinsurance and Extended Benefits.
3. 4:00 P.M.—5 P.M.
   Presentation by Oklahoma Employment Security commission.

Friday, March 28

4. 9:00 A.M.—10:00 A.M.
   Commission discussion: Special Unemployment Programs.
5. 10:00 A.M.—12:30 P.M.
   Commission discussion: Provisions of a State Law (Suitable Work and Dependents Benefits).
6. 2:00 P.M.—4:00 P.M.
   Continuation of Commission discussion.
7. 4:00 P.M.—6:00 P.M.
   Public Testimony.

Saturday, March 29

8. 8:00 A.M.—9:00 A.M.
   Commission discussion: Agendas for Future Meetings.
9. 9:00 A.M.—10:00 A.M.
   Commission discussion: Interstate Claims Proposals.
10. 10:00 A.M.—12 Noon
    Commission discussion: Further Consideration of Draft of Proposed Report.

Adjourn (12 Noon)

Telephone inquires and communications concerning this meeting should be directed to: Roger Webb, Deputy Executive Director, National Commission on Unemployment Compensation, 1815 N. Lynn Street, Room 440, Rosslyn, Virginia 22209 (703) 235-2782.

Signed at Washington, D.C., this 11th day of March 1980.

Roger Webb,

Deputy Executive Director, National Commission on Unemployment Compensation.

[FR Doc. 80-8133 Filed 3-14-80; 8:45 am]

BILLING CODE 4510-30-M

NUCLEAR REGULATORY COMMISSION

Advisory Committee on Reactor Safeguards, Ad Hoc Subcommittee on Three Mile Island, Unit 2 Accident Action Plan; Meeting

The ACRS Ad Hoc Subcommittee on the Three Mile Island, Unit 2 Accident Action Plan will hold a meeting on April 1-2, 1980 in Room 1046, 1717 H St., NW., Washington, DC 20555 to continue its consideration of Draft 3 of NRC NUREG-0660, "Action Plans Developed as a Result of the TMI-2 Accident."

In accordance with the procedures outlined in the Federal Register on October 1, 1979, (44 FR 56408), oral or written statements may be presented by members of the public, 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 Designated Federal Employee as far in advance as practicable so that appropriate arrangements can be made to allow the necessary time during the meeting for such statements.

The agenda for subject meeting shall be as follows:

Tuesday and Wednesday, April 1 and 2, 1980 8:30 a.m. until the conclusion of business each day.

The Subcommittee may meet in Executive Session, with any of its consultants who may be present, to explore and exchange their preliminary opinions regarding matters which should be considered during the meeting.

At the conclusion of the Executive Session, the Subcommittee will hear presentations by and hold discussions with representatives of the NRC Staff, the nuclear industry, various utilities, and their consultants, and other interested persons.

In addition, it may be necessary for the Subcommittee to hold one or more closed sessions for the purpose of exploring matters involving proprietary information. I have determined, in accordance with Subsection 10(d) of the Federal Advisory Committee Act (Public Law 92-463), that, should such sessions be required, it is necessary to close these sessions to protect proprietary information. See 5 U.S.C. 552b(c)(4).

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 Designated Federal Employee, Mr. John C. McKinley (telephone 202/634-3265) between 8:15 a.m. and 5:00 p.m., EST.

Dated: March 10, 1980.

John C. Hoyle,

Advisory Committee Management Officer.

[FR Doc. 80-7971 Filed 3-14-80; 8:45 am]

BILLING CODE 7590-01-M

Applications for Licenses to Export Nuclear Facilities or Materials

Pursuant to 10 CFR 110.41 "Public Notice of Receipt of an Application," please take notice that the Nuclear Regulatory Commission has received the following applications for export licenses for the period February 11 through March 1, 1980. A copy of each application is on file in the Nuclear Regulatory Commission's Public Document Room located at 1717 H Street, NW., Washington, D.C.

Dated this day March 3, 1980, at Bethesda, Md.

For the Nuclear Regulatory Commission.

James R. Shea,

Director, Office of International Programs.

Name of applicant, date of application, date received, application number	Material type	Material in kilograms: Total element	Material in kilograms: Total isotope	End-use	Country of destination
Exxon Nuclear Co., 02/12/80, 02/20/80, 3.8% enriched uranium XSNM01653		22,560	1,010	Multiple reloads for Barsebeck 1	Sweden
General Electric, 02/19/80, 02/25/80, 3.06% enriched uranium XSNM01654		33,865	821	Reload for Fukushima 1, Unit 2	Japan

ATTACHMENT A

JCM

of 5 U.S.C. 552b(c), Government in the Sunshine Act.

Authority To Close Meeting: This determination was made by the Committee Management Officer pursuant to provisions of Section 10(d) of Pub. L. 92-463. The Committee Management Officer was delegated the authority to make such determinations by the Director, NSF, on July 6, 1979.

M. Rebecca Winkler,
Committee Management Coordinator.

March 19, 1980.

[FR Doc. 80-8813 Filed 3-21-80; 8:45 am]

BILLING CODE 7555-01-M

NUCLEAR REGULATORY COMMISSION

Advisory Committee on Reactor Safeguards, Subcommittee on Babcock and Wilcox Water Reactors; Meeting

The ACRS Subcommittee on Babcock and Wilcox Water Reactors will hold a meeting on April 8, 1980 in Room 1048, 1717 H St., NW., Washington, DC 20555 to complete its review of the NRC Staff Study to determine whether construction should be halted on certain B & W plants because of sensitivity of the once-through-steam generator (OTSG) to feedwater transients.

Notice of this meeting was published March 19, 1980.

In accordance with the procedures outlined in the Federal Register on October 1, 1979, (44 FR 56408), oral or written statements may be presented by members of the public, 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 Designated Federal Employee as far in advance as practicable so that appropriate arrangements can be made to allow the necessary time during the meeting for such statements.

The agenda for subject meeting shall be as follows:

Tuesday, April 8, 1980

8:30 a.m. Until the Conclusion of Business

The Subcommittee may meet in Executive Session, with any of its consultants who may be present, to explore and exchange their preliminary opinions regarding matters which should be considered during the meeting.

At the conclusion of the Executive Session, the Subcommittee will hear presentations by and hold discussions with representatives of the NRC Staff, Babcock and Wilcox, their consultants, and other interested persons.

In addition, it may be necessary for the Subcommittee to hold one or more closed sessions for the purpose of exploring matters involving proprietary information. I have determined, in accordance with Subsection 10(d) of the Federal Advisory Committee Act (Pub. L. 92-463), that, should such sessions be required, it is necessary to close these sessions to protect proprietary information. See 5 U.S.C. 552b(c)(4).

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 Designated Federal Employee, Mr. Peter Tam (telephone 202/634-1413) between 8:15 a.m. and 5:00 p.m., EST.

Dated: March 18, 1980.

John C. Hoyle,
Advisory Committee Management Officer.

[FR Doc. 80-8877 Filed 3-21-80; 8:45 am]

BILLING CODE 7590-01-M

Advisory Committee on Reactor Safeguards, Ad Hoc Subcommittee on Three Mile Island, Unit 2 Accident Action Plan; Meeting; Change

The April 1-2, 1980 meeting of the ACRS Ad Hoc Subcommittee on Three Mile Island, Unit 2 Accident Action Plan will be held in Room P-118, Phillips Building, 7920 Norfolk Avenue, Bethesda, MD, starting at 8:30 a.m. each day. Notice of this meeting was published on March 17 (45 FR 17097) and all other items pertaining to the meeting remain the same as published.

Dated: March 18, 1980.

John C. Hoyle,
Advisory Committee Management Officer.

[FR Doc. 80-8878 Filed 3-21-80; 8:45 am]

BILLING CODE 7590-01-M

Announcement by Automatic Telephone Answering Service

AGENCY: Nuclear Regulatory Commission.

During the next 60 days, the NRC will test the effectiveness of an automatic Telephone Answering Service as an additional method of providing current information to the public concerning the scheduling of Commission meetings. The telephone number to call is (202) 634-1498.

The schedule of Commission meetings will be recorded daily on or before 3 PM of the date preceding the meeting and updated as required. The meeting schedule will also continue to be distributed through the current mailing service, the Federal Register and the Public Document Room, as before; no change is anticipated in this distribution.

The recording will operate 24 hours a day. Because the Commission schedule is subject to late changes, those who are planning to attend a meeting should re-verify the status of the meeting whenever possible.

Meetings will be at 1717 H Street unless otherwise indicated.

Further details of meetings are available from NRC staff during regular work hours at (202) 634-1410. At the end of the 60 day trial period, consideration will be given to extending this service to an "800" (Toll-Free) number.

Dated: March 18, 1980.

Walter Magee,
Office of the Secretary.

[FR Doc. 80-8879 Filed 3-21-80; 8:45 am]

BILLING CODE 7590-01-M

[Docket Nos. 50-325, 50-324]

Carolina Power & Light Co.; Issuance of Amendments to Facility Operating Licenses

The U.S. Nuclear Regulatory Commission (the Commission) has issued Amendment Nos. 28 and 50 to Facility Operating License Nos. DPR-71 and DPR-62 issued to Carolina Power & Light Company (the licensee) which revised the Technical Specifications for operation of the Brunswick Steam Electric Plant, Units Nos. 1 and 2 (the facility), located in Brunswick County, North Carolina. The amendments are effective as of the date of issuance.

The amendments revise the Technical Specifications to (1) correct the table of safety related hydraulic snubbers, (2) provide for systematic implementation of instrumentation modifications, and (3) eliminate the requirement for removing the SRM "shorting links" during core alterations with control rods withdrawn.

The applications for amendments comply with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendments. Prior public notice of the amendments was not required since the amendments do not involve a significant hazards consideration.

The Commission has determined that the issuance of the amendments will not result in any significant environmental

ATTACHMENT B

3/26/80

TENTATIVE DETAILED SCHEDULE FOR
ACRS AD HOC SUBCOMMITTEE MEETING ON NRC ACTION PLANS
DEVELOPED AS A RESULT OF THE TMI-2 ACCIDENT
APRIL 1&2, 1980
BETHESDA, MD

TUESDAY - APRIL 1, 1980

8:30 a.m. EXECUTIVE SESSION (OPEN to PUBLIC)

8:45 a.m. MEETING WITH NRC STAFF (R. Mattson, et al)

1. NRC Staff Response to ACRS Letter on NTOL Items in Draft 3 of NUREG-0660.

2. NRC Staff Response to AIF Study on Priorities and Resources

3. Utilization of FY 80 and 81 NRC Resources for Action Plan Items and Long-standing Items of Concern.

10:00 a.m. MEETING WITH NRC STAFF (R. Mattson and appropriate Directors)

1. Item-by-Item Review of Chapter I, Operational Safety (~53 Items)

12:00 noon LUNCH

1:00 p.m. 2. Item-by-Item review of Chapter II, Siting and Design (~54 Items)

3:30 p.m. 3. Item-by-Item Review of Chapter III, Emergency Preparedness and Radiation Effects (~30 Items)

5:30 p.m. RECESS

WEDNESDAY - APRIL 2, 1980

8:30 a.m. EXECUTIVE SESSION (OPEN to PUBLIC)

8:45 a.m. MEETING WITH NRC STAFF (R. Mattson and appropriate Directors) (Open to Public)

4. Item-by-Item Review of Chapter IV, Practices and Procedures (~15 Items)

10:00 a.m. MEETING WITH GENERAL ELECTRIC COMPANY REPRESENTATIVES REGARDING INHERENT DESIGN FEATURES OF THE GE BWR (G. Sherwood, et al) (Open to Public)

12:00 noon LUNCH

ATTACHMENT C

1:00 5. Item-by-Item Review of Chpater V, NRC Policy, Organization, and Management (17 Items)

2:00 p.m. EXECUTIVE SESSION (OPEN to PUBLIC)

1. Prepare Draft Recommendations Regarding Prioritization of Items.

2. Prepare Draft Recommendations Regarding Technica Content of Items.

3. Prepare Draft Report for Consideration by ACRS.

3:30 p.m. ADJOURN

ATTACHMENT D

LIST OF DOCUMENTS AVAILABLE TO
ACRS AD HOC SUBCOMMITTEE ON NRC ACTION PLAN
APRIL 1-2, 1980

1. "NRC Action Plans Developed as a Result of the TMI-2 Accident" Draft 3 NUREG-0660 - 3/5/80.

2. "Tentative Detailed Schedule for ACRS Ad Hoc Subcommittee Meeting on NRC Action Plans Developed as a Result of the TMI-2 Accident, April 1 & 2, 1980, Bethesda, Md." dated 3/26/80.

3. Memorandum for Etherington, Mathis, Ray, and Siess from J. C. McKinley dated March 25, 1980 subject: "Status Report for April 1-2, 1980 ACRS Subcommittee Meeting on Draft 3 of NRC Action Plans Developed as a Result of the TMI-2 Accident."

4. General Electric Company letter dated March 7, 1980 to Honorable John F. Ahearne from A. Philip Bray, Subject: BWR Mark I & II Containment Inerting.

5. Memorandum for Chairman Ahearne from William J. Dircks dated April 1, 1980 Subject: "ACRS Report on Near-Term Operating License Requirements."

6. Draft (undated) TMI Action Plan Response to AIF Comments (20 pages).

7. Document entitled "Implementation of Future Requirements Developed From Tasks in the TMI Action Plan," undated.

8. Document entitled "Priorities and Status of Items in the TMI-2 Action Plan" undated.

9. Memorandum for William J. Dircks from Harold Denton dated April 1, 1980 Subject: NRR Management Review of Draft 3 of TMI Action Plan.

10. Document entitled "Results of Point Assignments" dated January 19, 1979 with notes dated 3/4/80.

11. Memorandum for W. J. Dircks from R. J. Budnitz dated March 26, 1980 Subject: "Management Review of Draft 3 of TMI Action Plan."

12. Memorandum for William J. Dircks from Victor Stello, Jr. undated, Subject: "Management Review of Draft 3 of TMI Action Plan."

13. Memorandum for W. J. Dircks and R. J. Mattson from R. B. Minogue dated March 27, 1980, Subject: "SD Comments and Resource Information for Draft 3a of TMI Action Plan."

14. Viewgraphs used by General Electric Company on "Inherent Design Features of the BWR" (16 slides).

15. TMI Action Plan Steering Group Chronology.

16. Draft "Proposed NRR TMI Action Plan Reprogramming Summary FY 1980" undated.

IMPLEMENTATION OF FUTURE REQUIREMENTS DEVELOPED
FROM TASKS IN THE TMI ACTION PLAN

A number of requirements in the Action Plan were approved in the late summer of 1979 and issued to operating reactor licensees. These requirements are summarized in part 2 of the list of NTOL requirements in Appendix A of the Action Plan. A list of additional requirements pending OL applicants was tentatively approved by the Commission in early February, 1980. It includes the short term operating reactor requirements. The complete list is the so-called NTOL list in Appendix A.

In addition to the NTOL list, there are a number of studies and criteria development activities described in the Action Plan that will eventually lead to further TMI-related requirements. An important question for these additional requirements concerns the timing and other characteristics of their implementation.

In the year that has transpired since the accident, our policy on the short-term, urgent actions has been one of prompt implementation at the expense of some delay in the startup of new units or special shutdowns for some operating plants. These urgent actions were judged to be necessary for public health and safety. In the development and refinement of the Action Plan over the past five months, we have taken the opportunity to reconsider the urgent short term requirements in the broad context of the recommendations from all of the official studies of the accident and the actions proposed by the staff in response to those recommendations. The result has been that only a small number of requirements needed to be added to the urgent list for new and existing plants. Thus, it appears that we have converged on the most important and urgent actions that need prompt implementation.

ATTACHMENT E

This leads us to expect that none of the remaining changes need be implemented as urgently as those already issued. That is, the prompt application of the most important lessons learned over the past year has afforded us the opportunity to continue to pursue further changes at a more deliberate pace over the next several years. Such changes may be necessary for long term improvement in safety or maintenance of improvements already gained in the short term. Some people have suggested an additional reason to be more deliberate in our development of future changes - that is, the need to avoid counterproductive actions because of finite resources or, worse yet, changes that are unsafe because they were inadequately studied.

On this basis, the staff proposes an implementation policy for further TMI-related changes with four principal ingredients; namely,

(a) develop and implement additional TMI-related requirements in a priority order that gives consideration both to risk reduction and to resource requirements (i.e, a priority scheme that gives greatest weight to actions with a high ratio of risk reduction to resource commitment).

(b) on the most significant new requirements, obtain public comment on the substance and scheduling of their implementation prior to issuance. In most cases, the vehicle for such review would be a proposed revision or new Regulatory Guide, Standard Review Plan or rulemaking.

(c) apply these future requirements uniformly to operating plants and to plants under construction, except where specifically differentiated by rulemaking, and require that each one be

implemented by some specified date on all plants, but with case-by-case exceptions allowed for good cause.

(d) in order to minimize the costs of these future, TMI related requirements, and absent new information to the contrary, set implementation deadlines so as to avoid downtime on operating plants and delay in startup of plants under construction beyond that necessary to accomplish the change in an orderly manner.

PRIORITIES AND STATUS OF ITEMS IN TMI-2 ACTION PLAN

Key to Symbols

Decision Group:

A = action item already approved
B = action item to be approved by approval of Action Plan
C = separate Commission decision required
D = part of ongoing or future work according to routine NRC operating plan

Priority Group:

1 = Accomplish as scheduled in Action Plan
2 = Schedule, if possible, defer up to one year, or stretch out
3 = Can defer two years
(no priorites assigned to Decision Group D items)

ATTACHMENT F

TABLE 1 - PRIORITIES AND STATUS OF ITEMS IN TMI-2 ACTION PLAN

Key to Symbols

Decision Group:
- A = action item already approved
- B = action item to be approved by approval of Action Plan
- C = separate Commission decision required
- D = part of ongoing or future work according to routine NRC operating plan

Priority Group:
- 1 = Accomplish as scheduled in Action Plan
- 2 = Schedule, if possible, defer up to one year, or stretch out
- 3 = Can defer two years
- (no priorites assigned to Decision Group D items)

The initials "NA" indicate that the action item does not apply to licensees or the item may ultimately lead to new requirements for licensees, but in a manner not yet determined.

The dates specified in the "Plants Under Construction" column are the estimated dates beyond which the requirements are expected to become prerequisites for issuance of an operating license or for full-power operation as specified in the action plan. The initials "FL" and "FP" in this column mean that implementation is to be completed prior to fuel loading or operation above about five percent of full power, respectively. Implementation dates for decision group A items have been established by earlier Commission action. Implementation dates for decision group B items will be established by approval of this Action Plan. Implementation dates for decision group C and D items will be established later on an item by item basis.

Applicants for construction permits will be required to commit to meet TMI-related licensing requirements prior to operating license issuance except for action items II.A.1 and II.J.3, which must be satisfactorily complied with prior to construction permit issuance.

PRIORITIES AND STATUS OF ITEMS IN TMI-2 ACTION PLAN

tion Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
Operational Safety							
A.1 Operating Personnel and Staffing							
1. Shift Technical Advisor	A	1	NRR	X			
2. Shift Supervisor Ac in. Duties	A	1	NRR	X			
3. Shift Manning	A	1	NRR	X			
4. Long-term Upgrading	D	-	SD			X	
A.2 Training and Qualifications of Operating Personnel							
1. Immediate Upgrade of RO and SRO Qual.	Exp. - A	1	NRR	X			
2. Traini g and Qualifications of Other Personnel	B	2	NRR			X	
3. NRR Audit Training	B	2	NRR		X		
4. NRR Participation in IE Inspector Training	B	3	IE			X	
5. Plant Drills	B	1	NRR	X			
6. Long-term Upgrading	C	1	SD	X			
7. Accreditation of Training Institutions	C	2	NRR			X	

ction Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
.A.3 Licensing and Requalification of Operating Personnel							
1. Revise Scope and Criteria for Exams	A	2	NRR	X			
2. NRC Operator Licensing Reforms	C	3	NRR			X	
3. Operator Fitness	D	-	SD			X	
4. Licensing of Additional Operations Personnel	C	2	NRR			X	
5. NRC/DOE/INPO Statement of Understanding	D	-	NRR			X	
I.A.4 Simulator Use and Development							
1. Initial Simulator Improvement	B	1	NRR	X			
2. Long-Term Simulator Upgrading	B	2	SD	X			
3. NRC Training Simulator	D	-	RES			X	
4. NRC Engineering Computer	D	-	RES			X	
I.B.1 Management for Operations							
1. Organization and Management Long-Term Improvements	C	1	NRR	X			
2. Evaluation of NIOL Organization and Management Improvements	A	1	IE	X			
3. Loss of Safety Function	C	2	SD	X			Started FY79

PRIORITIES (continued)

Action Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
I.B.2 Inspection of Operating Reactors							
1. Revise IE Inspection Program	D	-	IE	X			
2. Resident Inspector at Operating Reactors	A	1	IE	X			
3. Regional Evaluations	D	-	IE	X			
4. Overview of Licensee Performance	D	-	IE	X			
I.C Operating Procedures							
1. Short-Term Accident Analysis and Procedure Revision	A	1	NRR	X			
2. Shift and Relief Turnover	A	1	NRR	X			
3. Shift Supervisor Responsibilities	A	1	NRR	X			
4. Control Room Access	A	1	NRR	X			
5. Feedback of Operating Experience	A	1	NRR	X			
6. Verification of Operating Activities	B	2	NRR	X			
7. NSSS Vendor Review	A	1	NRR	X			
8. Pilot Program - NTOL	A	2	NRR	X			
9. Long-Term Program Plan	C	1	NRR	X			

PRIORITIES (continued)

Action Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
I.D Control Room Design							
1. Design Review	NTOL - A Remainder - B	1	NRR	X			
2. Safety Parameter Console	B	1	NRR	X			
3. System Status Monitoring	C	2	NRR			X	
4. Design Standard	B	1	SD	X			
5. Research	C	2	RES	X			
6. Technology Transfer Conference	A	3	RES	X			
I.E Analysis and Dissemination of Operating Experience							
1. Office for Analysis and Evaluation of Operational Data	A	1	AEOD	X			
2. Office Programs	A	1	EDO	X			
3. Data Analysis	A	1	RES	X			Ongoing
4. Coordination of Programs	B	1	SD	X			
5. Nuclear Plant Reliability Data System	D	-	SD	X			
6. Reporting Requirements	C	1	AEOD	X			

Action Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
7. Foreign Sources	B	2	IP	X			
8. Human Error Analysis	A	2	RES	X			Ongoing
I.F Quality Assurance							
1. Expand QA list	B	2	SD			X	
2. Detailed Criteria	D	-	SD			X	
I.G Training During Low-Power Testing							
1. Training Requirements	A	2	NRR	X			
2. Scope of Test Program	B	2	NRR			X	
II. Siting and Design							
II.A Siting							
1. Siting Policy Rulemaking	C	3	NRR	X			
2. Site Evaluation	C	2	NRR	X			
II.B Degraded or Melted Cores							
1. Primary System Vents	A	2	NRR	X			
2. Plant Shielding	A	2	NRR	X			
3. Postaccident Sampling	A	2	NRR	X			

Action Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
4. Training	A	1	NRR	X			
5. Research	A	2	RES	X			Ongoing
6. Risk Reduction for Operating Reactors at Sites with High Population Density	A	1	NRR	X			
7. Containment Inerting	A	1	NRR	X			
8. Rulemaking on Degraded Core Accidents	A	2	SD	X			
II.C Reliability Engineering and Risk Assessment							
1. Initial Integrated Reliability Evaluation Program (IREP)	A	1	RES	X			Six-plant study delayed to 3/82
2. Continuation of IREP	C	2	RES	X			
Systems Interaction	A	1	NRR	X			
4. Reliability Engineering	B	2	NRR			X	
II.D Reactor Coolant System Relief and Safety Valves							
1. [illegible] Requirements	A	1	NRR	X			

PRIORITIES (continued)

ion Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
2. Research	A	3	RES	X			
3. Position Indication	A	1	NRR	X			Complete
E System Design							
E.1 Auxiliary Feedwater System							
1. Evaluation	A	1	NRR	X			Stretch completion to FY82
2. Auto Initiation and Flow Indication	A	1	NRR	X			
3. Update SRP and Issue Regulatory Guide	D	-	NRR			X	
.E.2 Emergency Core Cooling System							
1. Reliance on ECCS	B	2	NRR			X	
2. Research	A	1	RES	X			Started FY79
3. Uncertainties in Performance Predictions	C	2	NRR			X	
.E.3 Decay Heat Removal							
1. Natural Circulation	A	1	NRR	X			
2. Systems Reliability	B	1	NRR	X			

PRIORITIES (continued)

Action Item		Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
3.	Alternate Concepts Research	D	-	RES	X			Started FY79
4.	Regulatory Guide	D	-	SD	X			Ongoing
II.E.4	Containment Design							
1.	Dedicated Penetrations	A	1	NRR	X			
2.	Isolation Dependability	A	1	NRR	X			
3.	Integrity Check	B	2	NRR			X	
4.	Purging	A	1	NRR	X			
II.E.5	Design Sensitivity of B&W Reactors	A	2	NRR	X			
II.E.6	In Situ Testing of Valves	D	-	NRR			X	
II.F	Instrumentation and Controls							
1.	Additional Accident Monitoring Instrumentation	A	1	NRR	X			
2.	Inadequate Core Cooling	A	1	NRR	X			
3.	Reg. Guide 1.97	B	2	SD	X			Started FY79
4.	Control and Protection Actions	C	3	NRR			X	

Action Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
II.G Electrical Power for PORV, Block Valve and Level Indication	A	1	NRR	X			
II.H TMI-2 Cleanup and Examination							
1. TMI-2 Safety	A	1	NRR	X			
2. Obtain Information	A	2	RES	X			
3. Evaluation and Feedback	A	2	NRR	X			
4. Socioeconomic Effect and Property Values	A	3	RES	X			Started FY79
II.J General Implications of TMI for Design and Construction Activities							
II.J.1 Vendor Inspection Program							
1. Inspection Priority	D	-	IE	X			Ongoing
2. Modify Existing Program	D	-	IE	X			Ongoing
3. Expand Regulatory Control	D	-	IE		X		
4. Resident Inspectors at NSSS Vendors and AEs	D	-	IE		X		
II.J.2 Construction Inspection Program							
1. Reorient Program	A	3	IE	X			
2. Independent Measurement	A	3	IE	X			

Action Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
3. Resident Inspectors	D	-	IE	X			Ongoing
II.J.3 Management for Design and Construction							
1. Organization and Staffing	C	1	NRR	X			
2. Regulatory Guide	C	3	SD	X			
II.J.4 Revise Deficiency Reporting Requirements	C	2	IE	X			
II.K Small-Break LOCAs and Loss of Feedwater Accidents							
1. IE Bulletins	A	1	NRR	X			
2. Commission Orders on B&W Plants	A	1	NRR	X			
3. Final Recommendations of B&O Task Force	B	1	NRR	X			Stretch out implementation to FY8
III. Emergency Preparations and Radiation Protection							
III.A.1 Improve Licensee Emergency Preparedness Short-term							
1. Upgrade Emergency Preparedness	A	1	NRR	X			
2. Upgrade Support Facilities	A	1	NRR	X			Complete

Action Item		Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
3.	Thyroid Blocking Agent	C	3	NRR			X	
III.A.2	Improving Licensee Emergency Preparedness - Long-term							
1.	Rule Change	C	3	SD	X			Started FY79
2.	Guidance and Criteria	C	3	NRR			X	
III.A.3	Improving NRC Emergency Preparedness							
1.	NRC Role	A	1	EDO	X			
2.	Improve Operations Centers	B	2	IE	X			
3.	Communications	Telephones-A Backup-C	2	IE	X			
4.	Nuclear Data Link	C	3	IE	X			
5.	Training, Drills, and Tests	D	-	IE	X			
6.	Interaction with Other Agencies	C	2	EDO	X			
III.B	Emergency Preparedness of State and Local Governments							
1.	Transfer of Responsibilities to FEMA	A	1	EDO	X			
2.	Implementation of NRC and FEMA Responsibilities	A	1	EDO	X			

Action Item		Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
III.C	Public Information							
1.	Information Availability	C	3	OPA	X			
2.	Agency Policy and Training	C	3	OPA	X			
III.D.1	Radiation Source Control							
1.	Source Outside Containment	A	2	NRR	X			
2.	Radioactive Gas Management	B	3	NRR			X	
3.	Vent System and Radioiodine Adsorber Criteria	B	2	NRR			X	
4.	Radwaste System Design Features	C	3	NRR			X	
III.D.2	Public Radiation Protection Improvement							
1.	Effluent Monitoring	B	3	NRR			X	
2.	Radioiodine, Carbon-14, and Tritium Path Dose Analysis	B	3	NRR			X	
3.	Liquid Pathway Radiological Control	C	3	NRR			X	
4.	Offsite Dose Measurements	NTOL - A Remainder - C	3	NRR	RES X			
5.	Dose Calculation Manual	B	3	NRR			X	
6.	Independent Measurements	D	-	IE			X	

ction Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
II.D.3 Worker Radiation Protection Improvements							
1. Radiation Protection Plans	B	2	NRR			X	
2. Health Physics Improvements	D	-	SD	X			
3. Inplant Monitoring	Short-term - A Long-term - B, D	3	NRR			X	
4. Control Room Habitability	A	2	NRR	X			
5. Radiation Worker Exposure Data Base	D	-	SD	X			
IV. Practices and Procedures							
IV.A Strengthen Enforcement Authority							
1. Seek legislative Authority	A	2	OGC	X			
2. Revise Enforcement Policy	D	-	IE			X	
IV.B Revise Practices for Providing Instructions and Information to Licensees	D	-	NRR			X	
IV.C Extend Lessons Learned to Licensed Activities Other Than Power Reactors	C	2	NMSS	X			
IV.D Assess NRC Training Needs	C	2	ADM	X			

Action Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
IV.E Safety Decision-Making							
1. Expand Research on Quantification of Safety Decision-Making	D	-	RES		X		
2. Plan for Early Resolution of Safety Issues			NRR	X			
3. Plan for Resolving Issues at Construction Permit Stage	C	3	SD			X	
4. Resolve Generic Issues by Rulemaking	C	3	Comm.				To be determined
5. Assess Currently Operating Reactors	C	1	NRR	X			
IV.F Financial Disincentive to Safety							
1. Increased IE Scrutiny of Power Ascension Test Program	A	3	IE	X			
2. Evaluate Impact of Financial Disincentives to Safety of Nuclear Power Plants	C	3	NRR			X	
IV.G Improve Safety Rulemaking Procedures							
1. Develop Public Agenda	D	-	SD			X	
2. Periodic and Systematic Reevaluation of Existing Rules	D	-	ELD			X	
3. Improve Rulemaking Procedures	D	-	ELD			X	
4. Study Alternative for Improved Rulemaking Process	D	-	ELD			X	

PRIORITIES (continued)

Action Item	Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
V. NRC Policy, Organization, and Management							
1. NRC Policy Statement on Safety	NA	NA	Comm				To be determine
2. Study Elimination of Nonsafety Responsibilities	NA	NA	Comm.				To be determine
3. Strengthen Role of ACRS	NA	NA	Comm.				To be determine
4. Study Need for Additional Advisory Committees	NA	NA	Comm.				To be determine
5. Improve Public and Intervenor Participation in Hearing Process	NA	NA	Comm.				To be determine
6. Study Construction-During-Adjudication Rules	NA	NA	Comm.				To be determine
7. Study Need for TMI-Related Legislation	NA	NA	Comm.				To be determine
8. Study Need to Establish an Independent Nuclear Safety Board	NA	NA	Comm.				To be determine
9. Study Reform of Licensing Process	NA	NA	Comm.				To be determin
10. Study NRC Top Management Structure and Process	NA	NA	Comm.				To be determin
11. Reexamine Organization and Functions of NRC Offices	NA	NA	Comm.				To be determin

PRIORITIES (continued)

Action Item		Decision Group	Priority Group	Lead Office	Initiate Action FY80	FY81	FY82	Comments
12	Revise Delegations of Authority to Staff	NA	NA	Comm.				To be determined
13	Roles of Chairman, Commission, and EDO	NA	NA	Comm.				To be determined
14	Delegate Emergency Response Functions to a Single Commissioner	NA	NA	Comm.				To be determined
15	Achieve Single Location - Long-term	NA	NA	Comm.				To be determined
16	Achieve Single Location - Interim	NA	NA	Comm.				To be determined
17	Reexamine Commission Role in Adjudication	NA	NA	Comm.				To be determined