



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

July 10, 1985

To TMI-2 Advisory Panel Transcript Distribution List (see attached):

Enclosed is a short summary of the meeting of the Advisory Panel for the Decontamination of TMI-2 held on June 20, 1985 from 10:30 a.m. to 11:00 a.m. at 1717 H Street, Washington, DC 20555.

Sincerely,

A handwritten signature in cursive script, reading "Michael T. Masnik", is written above the typed name.

Michael T. Masnik, Liaison
Advisory Panel for the Decontamination
of TMI-2
TMI Program Office
Office of Nuclear Reactor Regulation

Enclosure:
As stated

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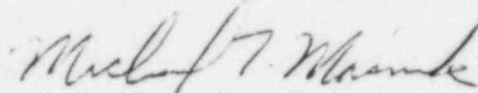
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SUMMARY OF THE MEETING OF THE
ADVISORY PANEL FOR THE DECONTAMINATION
OF THREE MILE ISLAND UNIT 2 HELD ON
JUNE 20, 1985 FROM 10:30 TO 11:00 AM
AT 1717 H STREET, WASHINGTON, DC 20555

- I. On June 20, 1985, the Advisory Panel for the Decontamination of Three Mile Island Unit 2 met from 10:30 AM to 11:00 AM at 1717 H Street, Washington, DC 20555.
- II. The Chairman of the Panel, A. Morris, briefly listed the agenda items contained in a letter from NRC Chairman Palladino to Chairman Morris, dated June 6, 1985 (Attachment). These items were the subject of discussion at the June 20, 1985 Panel Meeting with the NRC Commissioners that began at 11:00 AM.
 - A. Advisory Panel Members expressed satisfaction with the licensee's successful plenum lift; however, there was some concern expressed by J. Roth on the licensee's adequacy in notifying the public when the actual lifting of the plenum was to occur.
 - B. The consensus of the Advisory Panel was that they had not received enough information on fuel removal to provide input to the NRC Commission. G. Robinson informed the Advisory Panel that he had received a letter from GPU providing additional information on the need for installing additional monitoring equipment with regard to the issue of inadvertent recriticality during defueling. G. Robinson stated that although his concerns are not completely alleviated he does not feel this is a significant issue and probably will be resolved with some additional information supplied by the licensee.
 - C. The Advisory Panel expressed approval of the design of the fuel shipping cask; however, they agreed to request that DOE keep them informed of the progress in manufacturing the cask, the selection of shipping routes and security during shipping. It was also requested that DOE provide the Advisory Panel with the cost of the shipping casks.
 - D. The Advisory Panel expressed approval of the licensee's efforts to minimize worker radiation exposure; however, they did recognize that occasional overexposures in excess of GPUNC administrative levels had occurred in the past and that efforts should be made to avoid reoccurrences.
 - E. The consensus of the Advisory Panel was for approval of the recommendations contained in SECY-84-153 relating to the flow of information from the NRC staff to the Panel. However, the Advisory Panel did take exception to the staff's statement in SECY-84-153 concerning the possibility of damage to the Panel's credibility if they received information that was and could not be made publicly available.

- F. The Advisory Panel decided to allow Joe DiNunno, Panel Member, to present to the Commissioners his proposal on Panel involvement in health effects issues related to the TMI-2 accident.
- G. The Advisory Panel decided to take no position on the staff's results and recommendations contained in SECY-85-185. SECY-85-185 provided a staff review of epidemiological studies in the TMI-2 area conducted in response to the TMI-2 accident.
- H. The Advisory Panel took no strong position on the recently announced delay by the licensee in the commencement date of defueling. They agreed that the NRC closely watch the situation.
- I. The Advisory Panel expressed concern over the fact that the Commission had not completed the pending TMI-2 enforcement action.

The Meeting was adjourned at 11:00 AM. Panel Members present were: T. Cochran, J. DiNunno, T. Gerusky, K. Miller, A. Morris, R. Reid, G. Robinson, J. Roth, and N. Wald.


Michael T. Masnik
NRC Liaison

Attachment:
As stated



OFFICE OF THE
SECRETARY

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

June 6, 1985

The Honorable Arthur E. Morris, Chairman
The Advisory Panel for the Decontamination
of Three Mile Island Unit 2
Mayor of Lancaster
120 North Duke Street
Lancaster, Pennsylvania 17602

Dear Mayor Morris:

The following is a list of topics that I propose for discussion at the Commission meeting with the TMI-2 Advisory Panel, scheduled for 11:00 A.M., Thursday, June 20, 1985.

1. Advisory Panel comments on the licensee's activities associated with the recent lifting of the reactor pressure vessel plenum.
2. Advisory Panel comments on the technical and safety aspects of the licensee's plans for early fuel removal.
3. Advisory Panel comments on the technical, safety and security aspects associated with the shipping cask that will be used to transport fuel from TMI-2 to the Department of Energy facility.
4. I understand that the Panel was provided with a description of the GPUNC TMI-2 worker radiation protection program including a detailed accounting of worker exposure to date. We would like to hear your opinions on the licensee's program.
5. Advisory Panel comments, if any, on the policy set forth in SECY-85-153, Providing Information to the Advisory Panel on TMI-2 Cleanup as well as the adequacy of the flow of information on the cleanup to the Advisory Panel since our last meeting.
6. As available, the Advisory Panel proposal setting forth the scope of inquiry and the criterion to be followed by the Panel in examining epidemiological studies associated with radiation released during the TMI-2 accident. The Commission would like to receive the written proposal, if available, in advance of the upcoming meeting. Also, the NRC staff will brief you at the meeting on the results of their recent overview of all epidemiological studies undertaken to date and discuss the need for additional studies.

50670449

Honorable Morris

7. Discussion of GPUNC's recently announced revision to the 1985 TMI-2 cleanup schedule which includes a three-month delay in the commencement of fuel removal.
8. The status of NRC investigations and enforcement actions related to the TMI-2 cleanup, to be presented by the staff.

I request that any additional topics that the Advisory Panel would like to discuss at the June meeting be sent to me as far in advance of the meeting as possible so that we can put them on the agenda. I am looking forward to seeing you and the rest of the Panel Members at the June meeting.

Sincerely,

Original signed by
Nunzio J. Palladino

Nunzio J. Palladino

Cleared with all Cmrs' Offices by C/R.
Ref.-CR-85-46

Originating Office: FDO/WHRR/TMIPQ:Masnik

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TO THE ADVISORY PANEL FOR THE
DECONTAMINATION OF THE
THREE MILE ISLAND UNIT 2

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the matter of:

COMMISSION MEETING

Periodic Meeting With Advisory
Panel on Decontamination of TMI-2

(Public Meeting)

Docket No.

Location: Washington, D. C.

Date: Thursday, June 20, 1985

Pages: 1 - 55

—ANN RILEY & ASSOCIATES—

Court Reporters

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D I S C L A I M E R

This is an unofficial transcript of a meeting of the United States Nuclear Regulatory Commission held on Thursday, June 20, 1985 in the Commission's office at 1717 H Street, N.W., Washington, D.C. The meeting was open to public attendance and observation. This transcript has not been reviewed, corrected, or edited, and it may contain inaccuracies.

The transcript is intended solely for general informational purposes. As provided by 10 CFR 9.103, it is not part of the formal or informal record of decision of the matters discussed. Expressions of opinion in this transcript do not necessarily reflect final determination or beliefs. No pleading or other paper may be filed with the Commission in any proceeding as the result of or addressed to any statement or argument contained herein, except as the Commission may authorize.

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

PERIODIC MEETING WITH ADVISORY PANEL ON
DECONTAMINATION OF TMI-2

PUBLIC MEETING

Room 1130
1717 H Street, Northwest
Washington, D.C.
Thursday, June 20, 1985

The Commission met, pursuant to notice, at 11:18
o'clock, a.m., the Honorable Nunzio J. Palladino, presiding.

COMMISSIONERS PRESENT:

NUNZIO J. PALLADINO, Chairman of the Commission
FREDERICK M. BERNTHAL, Member of the Commission
JAMES K. ASSELSTINE, Member of the Commission
LANDO W. ZECH, JR., Member of the Commission

STAFF AND PRESENTERS SEATED AT THE COMMISSION TABLE:

THOMAS GERUSKY
ROBERT REID
JOSEPH DINUNNO
JOEL ROTH
ARTHUR MORRIS

1 STAFF AND PRESENTERS SEATED AT THE COMMISSION TABLE

2 (continued):

3 THOMAS COCHRAN

4 NIEL WALD

5 GORDON ROBINSON

6 KENNETH MILLER

7 HERZEL PLAINE

8 SAM CHILK

9 SHELDON TRUBATCH

10 AUDIENCE SPEAKERS:

11 FRANK CONGEL

12 BENJAMIN HAYES

13 JANE AXELRAD

14 ***

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P R O C E E D I N G S

(11:13 a.m.)

CHAIRMAN PALLADINO: Good morning, ladies and gentlemen.

This morning, the Commission is holding one of its periodic meetings with our Advisory Panel on the TMI-2 Cleanup. On behalf of the Commission, I welcome the members of the panel.

Commissioner Roberts is unable to attend this meeting and has asked to express his regret, but he has said that he will read the transcript of our discussions.

The purpose of our meeting to day is to provide an opportunity for the panel to report to the Commission on matters related to the cleanup activities at TMI-2 and other matters related to panel activities. Copies of the complete agenda are available in the rear of the room.

Let me ask if other Commissioners have opening remarks at this time.

COMMISSIONER ASSELSTINE: No.

COMMISSIONER BERNTHAL: No.

COMMISSIONER ZECH: No.

CHAIRMAN PALLADINO: All right. Then let me turn the meeting over to the chairman of the panel, Mr. Arthur Morris.

MR. MORRIS: It's a pleasure to be with you today,

1 and we appreciate this opportunity. If you would like us to
2 go through the agenda here, I would read the item and then
3 tell you how we would like to proceed with it, if we could.

4 Item 1 is panel views on Licensee activities related
5 to lifting reactor pressure vessel plenum. We feel, as a
6 group, that the lifting seemed to go according to plan and was
7 carried out very well from a technical standpoint.

8 We did receive public comment expressing their
9 concern that there was not adequate notification to them and
10 that the panel would hope that GPU could do a little better
11 job in the future regarding notification to the public.

12 That would conclude the panel's comment on Item 1.

13 CHAIRMAN PALLADINO: How much notification was
14 given?

15 MR. MORRIS: There seemed to be varying accounts of
16 just how much notice was given. One of the main concerns
17 happened during the day or the evening before, when the
18 citizens who came to our meeting indicated that they had
19 called the Publicity Department of GPU to ask when the lifting
20 would take place, and that they were not given a specific
21 answer to that, even though GPU apparently had information as
22 to when that might occur.

23 Now GPU did explain at the meeting why they were
24 reluctant to share specifics, because they were going hour by
25 hour on certain types of procedures and didn't know if they

1 were going to definitely proceed.

2 But there were panel members that feel that they
3 could have been more direct and given their best estimate and
4 not have left things up in the air and secretive, and that was
5 a concern that we got from the citizens, and we feel that GPU
6 could address it probably fairly easily in the future and
7 alleviate some of the concerns that the citizens had.

8 CHAIRMAN PALLADINO: Okay.

9 MR. MORRIS: If any other panel members would like
10 to offer any further comment to it, but I think that's the
11 gist of what happened at the meeting.

12 CHAIRMAN PALLADINO: Okay. Thank you.

13 We will have the Program Office make sure that GPU
14 knows of your feeling. I'm sure they know of it already.

15 MR. MORRIS: They do. And Mr. Sanderford did
16 explain some of the concerns that he had on giving specifics
17 out at the meeting. But we still want to share that with you.

18 CHAIRMAN PALLADINO: All right.

19 MR. MORRIS: Item 2: Panel views of technical and
20 safety aspects of Licensee plans for early fuel removal.

21 While the panel has had some information given to us
22 by GPU, we feel that that's an issue we would rather put off
23 to comment on until we get more information from GPU regarding
24 it at some future meeting.

25 COMMISSIONER ASSELSTINE: Does that mean that you

1 still have questions, then, about these neutron monitors? Is
2 that still an open question?

3 MR. MORRIS: I wouldn't want to say where our
4 questions lie. I just feel that there is additional
5 information we would like to receive before we really give a
6 comment on it.

7 COMMISSIONER ASSELSTINE: Okay, fine.

8 CHAIRMAN PALLADINO: Has the additional information
9 that you need been transmitted to either the Commission or
10 GPU?

11 MR. MORRIS: Well, we have a meeting, I think we're
12 going to be setting it for July the 13th, and one of the items
13 on that is again further discussions on the fuel removal.

14 CHAIRMAN PALLADINO: All right. Are additional
15 items of information being planned with regard to responding
16 to the question on neutron detectors, additional neutron
17 detectors?

18 MR. MORRIS: ~~Gorcor~~, if you want to speak to that?

19 MR. ROBINSON: Only some information has been
20 received. My concerns are not completely alleviated yet, but
21 we are -- I expect to get some additional information, and I
22 have some already. So it is being handled, to the best of
23 their ability, at this point.

24 CHAIRMAN PALLADINO: Will they be prepared to
25 discuss that at the July 13th meeting?

1 MR. ROBINSON: I would expect that I will have the
2 additional information that I need, then.

3 CHAIRMAN PALLADINO: Okay.

4 Other questions?

5 COMMISSIONER ASSELSTINE: No.

6 MR. MORRIS: And Gordon was the one that expressed
7 that concern particularly, and I think if he can get the
8 information, then we could attempt to resolve that at the next
9 meeting.

10 CHAIRMAN PALLADINO: All right.

11 MR. MORRIS: If there is nothing else, we could move
12 to Item 3, which is panel views on technical safety and
13 security aspects related to fuel shipping cask.

14 We feel that we received a very impressive
15 presentation which showed the cask to be well tested, in fact,
16 so well tested that I know there were several observations
17 that the biggest risk will be if a cask falls off during
18 shipment, of anything that happened to get in its way, because
19 it seems to be quite a facility that has been built.

20 It is worth mentioning, however, that this will be
21 about a two-year operation, and I think the public needs to
22 know that it is going to be going on for quite a period of
23 time.

24 The panel wishes to be kept up to date on the
25 shipping routes and security aspects, as well as costs that

1 would be available and could be made available to us, because
2 there are areas that we would like maybe to comment on in the
3 future as that information becomes available.

4 CHAIRMAN PALLADINO: Was there or is there concern
5 on the part of the committee with regard to whether or not
6 this cask could fall off the train?

7 MR. MORRIS: No. My comments should not imply
8 that. It was more to add a little levity here.

9 COMMISSIONER ASSELSTINE: They're sturdy casks.

10 [Laughter.]

11 MR. MORRIS: If that would happen, there could
12 indeed be a problem with anything that would get in the way,
13 but we're not suggesting it will happen, Mr. Chairman.

14 CHAIRMAN PALLADINO: Okay. Any other questions on
15 Item 3?

16 COMMISSIONER ASSELSTINE: No.

17 CHAIRMAN PALLADINO: Any comments by other
18 Commission members?

19 COMMISSIONER BERNTHAL: We're not used to much
20 levity in this room.

21 [Laughter.]

22 MR. MORRIS: We're going to make you change, whether
23 you like it or not.

24 [Laughter.]

25 CHAIRMAN PALLADINO: Okay. Do you want to go to

1 Item No. 4.

2 MR. MORRIS: Item No. 4 is panel views on GPU
3 Nuclear TMI-2 worker radiation protection program. And as we
4 go through here, there will be -- I will ask other panel
5 members maybe to speak to an item on behalf of the panel, and
6 on this one, I would ask that Ken Miller, if he would do that,
7 please.

8 CHAIRMAN PALLADINO: Okay.

9 MR. MILLER: In answer to this question, I think we
10 all agree that our continuing review of the overall radiation
11 protection program indicates that the program is a good one.

12 Occasionally, there are isolated deviations from the
13 program that require prompt corrective action; however, it
14 appears that such corrective action is appropriately taken
15 when warranted.

16 COMMISSIONER BERNTHAL: That was pretty concise.

17 MR. MORRIS: We are trying to be concise in those
18 areas that we can be. We have discussed the statements that
19 are being made here, and the initial statement will represent
20 the consensus of the panel. If panel members feel that they
21 have their own specific statement, maybe that would be
22 contrary to that or would add further to it, they should
23 certainly feel free to offer their comments.

24 COMMISSIONER BERNTHAL: You guys are really
25 blindsiding us. First, levity, and now concision. That's

1 tough for us to deal with.

2 CHAIRMAN PALLADINO: Go ahead, Tom.

3 MR. COCHRAN: My only caveat is, I've had a
4 longstanding view that the radiation protection standards are
5 set too high for commercial industry.

6 CHAIRMAN PALLADINO: Tom, I'm not sure they can hear
7 you in the back of the room. You ought to speak into --

8 MR. COCHRAN: I've had a longstanding view that the
9 radiation protection standards for occupational workers are
10 set too high, and, in fact, I have petitioned the Commission
11 -- I believe it was 1976 -- to reduce the exposure standards,
12 and I am still waiting for action on that petition.

13 But other than that, I think that GPU has, from what
14 we were presented, has an adequate program to meet the
15 existing standards.

16 CHAIRMAN PALLADINO: Tom, did you say there is a
17 petition that you sent in 1976 to which you haven't gotten a
18 response?

19 MR. COCHRAN: Well, you haven't acted on it.

20 CHAIRMAN PALLADINO: That's interesting.

21 COMMISSIONER ASSELSTINE: It may be all wrapped up
22 in the Part 20 revisions.

23 CHAIRMAN PALLADINO: It may be.

24 COMMISSIONER ASSELSTINE: Well, we're looking at
25 Part 20 finally. It's taken a long time, but --

1 MR. COCHRAN: It was a different Commission. I
2 mean, the old Commission has all retired. It's an entirely a
3 new Commission. Commissioners come and go; petitions stay.

4 [Laughter.]

5 CHAIRMAN PALLADINO: Nevertheless, we inherit our
6 history, and we should be sensitive to needs for action on our
7 parts.

8 COMMISSIONER BERNTHAL: You're sure it wasn't the
9 Atomic Energy Commission?

10 MR. COCHRAN: I don't remember which organization.

11 [Laughter.]

12 CHAIRMAN PALLADINO: Okay. Any more comments on
13 Item 4.

14 COMMISSIONER ASSELSTINE: No.

15 MR. MORRIS: Item 5 is panel views on flow of
16 information to Advisory Panel.

17 At the last meeting, Joel Roth presented the panel's
18 viewpoint, and I would ask him to do it again at this meeting,
19 if he would.

20 Joel?

21 MR. ROTH: Thank you.

22 First of all, I would like to thank the Commission
23 for the list of printed material, and then I'll start
24 disagreeing with it.

25 [Laughter.]

1 I would just like to read some of it, and then make
2 my comments from that.

3 "The NRC legally can provide the Advisory Panel with
4 non-public information and still withhold that information
5 from public disclosure. However, there are policy
6 considerations which weigh against providing the Advisory
7 Panel with non-public information."

8 That's just the setting. Now, I will jump to page
9 9. Again it says, "Legally the panel can be given documents
10 which have not been publicly disclosed. However, the panel
11 historically has operated in the open, making it a practice
12 not to withhold any information from the public. Providing
13 the panel only with public information allows members of the
14 public to question actions on the part of the Licensee or the
15 regulatory agencies to the same extent of panel members.

16 "Partly as a result of this openness, the panel has
17 enjoyed the trust of the public."

18 Now here's where I have problems: "It could be a
19 disadvantage to the panel's activities to begin having them
20 consider non-public information, in that such action could
21 lead to some loss of public credibility for the panel. This
22 consideration weighs against providing the panel with
23 non-public information."

24 Now basically I'm speaking for myself on this. As
25 the Chairman said, we have discussed this as a panel, and I'm

1 sure any other panel member will feel free to make a
2 statement.

3 I just believe that's a very cavalier attitude, and
4 I believe "information" is the key word that we should be
5 getting, and let the panel worry about the public trust, the
6 public credibility.

7 In other words, I think that's our problem, not
8 necessarily for the Commission to worry about whether or not
9 we are maintaining our credibility. And again, I don't think
10 that the panel can make or render decisions or give you our
11 opinions without information. And I just believe again that
12 if that could be deleted from the policy and go on a
13 case-by-case operation, I would feel comfortable with that.
14 But I just really have uncomfortable feelings about the
15 Commissioners worrying about our credibility because of our
16 openness. It's almost like we're being penalized because
17 we're being open, so therefore you cannot give us information.

18 CHAIRMAN PALLADINO: But would you be in a position
19 to receive information that is not made public?

20 MR. ROTH: I have no problem -- I mean, I would much
21 rather, as a panel member, have to say to the public, "This is
22 information at this time that we cannot give, but we need it,
23 and at which time we will make it public," rather than saying,
24 "I don't know." And I think that's the position that we are
25 put in.

1 I just don't think that we should be penalized for
2 being open.

3 CHAIRMAN PALLADINO: Well, I think you make a good
4 point.

5 Are there other Commissioner comments?

6 COMMISSIONER ASSELSTINE: I agree. When I read the
7 paper -- and indeed approved the conclusion on the paper -- I
8 didn't agree with a lot of the statements in there about why
9 you shouldn't get this information or some of these other
10 arguments.

11 The bottom line for me was, I thought the paper had
12 said, "Look, we'll look at this information on a case-by-case
13 basis. If it relates to your activities, we will look at it
14 on a case-by-case basis, and we will give it to you if we
15 think it's necessary to your activities, subject to whatever
16 restrictions have to be placed on it."

17 So that's sort of the way I read the bottom line.
18 And if that's an acceptable, at least, conclusion to you --

19 MR. ROTH: The conclusion, I think, was acceptable
20 to all of us. It was that --

21 COMMISSIONER ASSELSTINE: I think some of the
22 reasoning is flawed.

23 MR. ROTH: Yes. I'm glad you said that.

24 MR. MORRIS: And we would not want any Staff person
25 to go back and use some of the reasoning in determining in the

1 future just what information we would get, particularly
2 regarding the reasoning on that part that Joel went through.

3 CHAIRMAN PALLADINO: Was there any other part, Joel,
4 that --

5 MR. ROTH: No. I mean, I certainly understand that
6 enforcement actions or investigations and things of that
7 nature are not important to us. But I think if there is a
8 matter of judgment made, I hope it would be made in our favor
9 of receiving information, rather than not receiving
10 information.

11 I think the panel, you know, are adults and can be
12 trusted with that type of material.

13 CHAIRMAN PALLADINO: Well, I have voted to give you
14 this paper, but I have not voted on the substance of the
15 paper, so I would have an opportunity maybe to incorporate
16 your suggestion in my vote.

17 And other Commissioners may want to speak to the
18 same thing.

19 COMMISSIONER BERNTHAL: To give you this paper, or
20 to concur in the recommendation of the paper?

21 CHAIRMAN PALLADINO: When I voted -- when I voted, I
22 agreed to have this paper sent to the panel, but I had not
23 voted yet on the substance of the paper, pending this
24 discussion, which I think has been very valuable.

25 COMMISSIONER BERNTHAL: Well, it sounds like there

1 are two questions. I thought your comment earlier was on the
2 substance of the paper.

3 CHAIRMAN PALLADINO: Yes, that's right.

4 Now, I say I voted to send the paper down to the
5 committee. I have not yet voted on the substance of the
6 paper.

7 COMMISSIONER BERNTHAL: I see. I misunderstood.

8 CHAIRMAN PALLADINO: Now after hearing these
9 comments, I would be prepared to vote on the substance of the
10 paper, and I could take advantage of this comment and make it
11 a part of my vote.

12 COMMISSIONER ASSELSTINE: Yes. I think that gives
13 us a good opportunity. If you vote on that, Joe, then I think
14 the rest of us can reach agreement fairly quickly.

15 COMMISSIONER ZECH: It seems to me that it's a very
16 reasonable request. It depends on, as you pointed out, as
17 long as it relates to your activities, and I think that's what
18 you're asking, it seems to me that that's a judgment we'd have
19 to make, of course, but in all those cases that it does relate
20 to your activities, it seems to me it would be appropriate to
21 place that trust and confidence in you. That's how I feel
22 about it.

23 COMMISSIONER BERNTHAL: I agree. I think the
24 conclusion of the General Counsel's paper has the right tone.

25 MR. ROTH: And I agree, it is your business to worry

1 about public credibility.

2 CHAIRMAN PALLADINO: Let Commissioner Bernthal
3 finish.

4 COMMISSIONER BERNTHAL: Seeking to get a blanket
5 policy that covers every case ahead of time, I think, is
6 something that's typical maybe of bureaucracies, but I don't
7 think we ought to try and do. I think we should review
8 these. General Counsel can review them, just like we do other
9 documents on a case-by-case basis and reach some sensible
10 judgment.

11 COMMISSIONER ASSELSTINE: To clarify what factors
12 would go in there, so that we eliminate this concern.

13 COMMISSIONER BERNTHAL: But we have things like that
14 all the time, and one of the points that the General Counsel
15 does make is, we often restrict documents even within the
16 agency, and we have to review documents for that purpose.

17 CHAIRMAN PALLADINO: Okay. Any more comment on this
18 item?

19 [No response.]

20 MR. MORRIS: On Item 5, we would like, if we could,
21 to break that into a 5(a) and a 5(b), with the 5(a) being
22 scope of inquiry and criterion proposed by the Advisory Panel
23 in examining the epidemiological studies associated with
24 radiation released during the TMI-2 accident. And then (b)
25 would be the Staff overview. That, of course, would be

1 something that the Staff would lead.

2 As to 6(a), the panel did send to the Commission a
3 position on this, and I would ask at this time, if I could,
4 for Joe DiNunno to go through that with you, and see whether
5 the Commission has any questions on it at all at this point.

6 Joe?

7 MR. DINUNNO: Well, as we had agreed at the March
8 7th meeting, we did develop a proposed scope of additional
9 authority, if you will, to have the panel act as a forum for
10 the presentation of results of studies on health effects
11 related to the release of radionuclides during the accident.

12 But in so doing, we also established for ourselves
13 -- and certainly offer to you for consideration -- that we
14 would follow certain criteria -- namely, that these would be
15 information meetings wherein we would be presenting or
16 offering a forum for presentation of results of work done by
17 others, that we would neither referee or attempt to
18 independently review these. We didn't think this was a role
19 of the Advisory Committee, and certainly if one were going to
20 do this, both the expertise required and the time required
21 certainly exceeded those of the membership that we have on the
22 committee right at the moment and the time that we could
23 allocate to such.

24 So we would not attempt to act either as a referee
25 or an independent technical reviewer, nor would we get into

1 issues regarding the adequacy of standards. This, again, was
2 not a purview, we felt, of the committee.

3 And the other concern that had been expressed by
4 some of the members of the panel was that we might allow
5 something of this sort to cause us to deviate from the TMI-2
6 cleanup related activities. And we have set forth, again,
7 another criteria that would indicate that the panel's priority
8 would still be to the cleanup program, and that the health
9 effects issue would not dominate the agenda or the topics to
10 be addressed.

11 So in effect, we were delimiting what we would
12 attempt to do under these epidemiological study results or
13 with these results, and still feel as a panel that the
14 interest in this subject of the populace in the area is such
15 that such a forum could serve a very useful public service,
16 and to our knowledge, this opportunity is not being extended
17 in other mechanisms, and therefore it might offer a unique
18 opportunity for presenting and interpreting sometimes rather
19 complex radiation effects studies.

20 CHAIRMAN PALLADINO: How would you see this taking
21 place? Would you periodically have somebody that has been a
22 part of a study come and make a presentation to the panel and
23 the public, as a result of their presence?

24 MR. DINUNNO: That certainly is something that has
25 been done in the past, and we would propose to continue that

1 sort of thing. For example, there are studies being conducted
2 both under the Public Health Fund and by the State of
3 Pennsylvania. And as those studies get to a point where it
4 looks like some results of interest to the public may have
5 developed, we would ask people who have participated in those
6 to come and tell us what they have found, where they're going
7 from here, what conclusions that they may have derived from
8 these, and to hopefully put this in terms that the public
9 could more readily understand.

10 These papers or these results are very commonly
11 reported in the technical literature. For example, the
12 Pennsylvania academic community has these available to them.
13 But they aren't frequently put into terms that the public can
14 understand, and I think that to take a person who has made
15 such a study and to offer an opportunity to, in effect,
16 explain as simply as possible just what these studies really
17 mean in a way that people could more effectively relate to
18 them, I think would be a very useful public service.

19 CHAIRMAN PALLADINO: Would you be interpreting or
20 would the committee be interpreting the information that's
21 being presented, or how would you do the interpretation part?

22 MR. MORRIS: Well, go ahead, Joe, if you want to
23 offer a comment. Then maybe Tom.

24 MR. DINUNNO: I think to the extent that in the
25 process one might make some commentary on the study, by those

1 on the panel who are knowledgeable in these areas, I think
2 this would be helpful and would be comforting to the members
3 of the public who would be listening to this.

4 But in terms of trying to independently evaluate
5 whether these are proper results, I don't think that we could
6 get involved in anything of that sort.

7 CHAIRMAN PALLADINO: Okay.

8 MR. MORRIS: Tom?

9 MR. GERUSKY: I was going to say the same thing.

10 But in addition, the Department of Health's TMI-2 Advisory
11 Committee on the Research, on the epidemiological research,
12 meets periodically. Those meetings are not public meetings,
13 but the results of those meetings ought to be available, and
14 they discuss their progress, the work that they've been doing
15 on the studies and any new information that has come out, and
16 I think it would be appropriate at our meetings to have
17 someone summarize what happened at those meetings.

18 COMMISSIONER ZECH: Those are State of Pennsylvania
19 meetings?

20 MR. GERUSKY: Yes. Very few members of the public
21 or even the scientific community in the area know what's
22 really going on in the Health Department study, and I have
23 been asking for them to make those meetings public meetings
24 for a long time, but they felt that ongoing studies -- they
25 had some problem making them public, and I understand that.

1 Some preliminary information may not prove to be accurate.

2 But I think a summary of those things that they do
3 believe are solid conclusions and some showing of where
4 they're going next year or what's going to be done and that
5 information, our meeting is about the only place that they can
6 have a forum on this.

7 CHAIRMAN PALLADINO: Would they be willing to come
8 and make such presentations?

9 MR. GERUSKY: Yes.

10 CHAIRMAN PALLADINO: That's very important.

11 MR. MORRIS: It's interesting to note, Mr. Chairman,
12 that our vote on this particular item was unanimous.

13 CHAIRMAN PALLADINO: Well, you made very strong
14 arguments last time on the need for this activity, and I'm
15 pleased to see your guidelines, and we're going to have to act
16 on them. I don't propose that we act on them today, but act
17 on them within the next few days by notation vote.

18 MR. MORRIS: Well, just to point out, I think we had
19 nine members present, and we got a unanimous vote. And you
20 only have five members, and you've never had such a vote.

21 [Laughter.]

22 CHAIRMAN PALLADINO: Oh, we've had a couple.

23 MR. MORRIS: Oh, when they adjourn, I'm sorry.

24 [Laughter.]

25 Niel?

1 MR. WALD: One other group that is also sponsoring
2 studies -- it might be appropriate to have them also come to
3 our meetings -- that's the Public Health Settlement Fund from
4 the class action. We have a member of the group here, but
5 he's too modest to say anything about it himself. But I would
6 suggest that that would be a chance for the community to know
7 what's happening with the funds in that group also.

8 CHAIRMAN PALLADINO: How would you assure that this
9 doesn't become the overriding activity of the committee
10 because of the public interest?

11 MR. MORRIS: Simply, Mr. Chairman, that would be
12 something I feel that the panel would have to continue to be
13 aware of, and I think we have the type of makeup of the panel
14 that there are certain members who would just not allow that
15 to happen, and I would hope, as a panel, we could reach
16 consensus when that came into question. And I know that you
17 read and you have Staff read our minutes, and if you felt that
18 it was becoming a burden for the panel that was too great to
19 carry, that you would bring it up at one of our sessions.

20 I think there are a lot of checks and balances here,
21 and we did not start out as a panel with the feelings last
22 year that this was the type of thing we should be doing, but
23 the more we discussed it, the more we felt that the kind of
24 statement that was drawn up was one that we should support as
25 a group, and that it's very necessary.

1 I know the individuals in the area, and I believe
2 that Joel Roth has a letter from one of them that maybe would
3 have been sent to you in support of what the panel is asking
4 for here, because there are a lot of groups that want to see
5 and feel a need for this type of thing.

6 MR. COCHRAN: Criterion 3 addresses that issue.

7 CHAIRMAN PALLADINO: Yes, I see it.

8 Well, now, if we approve these guidelines, we would
9 have to change the charter, and I am going to ask OGC to look
10 at or prepare for us the change in charter that would be
11 appropriate to this activity, assuming that the Commission
12 will vote favorably on it.

13 But I would appreciate getting notation votes from
14 Commissioners on this, so that at least I'll know what the
15 vote is. Sometimes it's difficult to reconstruct the vote,
16 unless it's done in writing.

17 COMMISSIONER BERNTHAL: I just have one procedural
18 suggestion to offer here. As you know, I supported your
19 suggestion last time, and as I recall -- and my memory isn't
20 always the best on these things -- but I think that the
21 general idea was for you to provide a conduit for public
22 concerns and a place where people can come, and you can in
23 some way assist people in having whatever their concerns might
24 be addressed.

25 The one thing, as a procedural matter, that you may

1 want to be cautious about, as any group like you or like us
2 has to be cautious about this sort of thing, is, if you bring
3 in an expert -- and there are experts and there are experts,
4 as you know -- to address the public or to inform the public
5 of what his view, his expert view, is, it's not entirely clear
6 to me that you would want to do that within the context of a
7 formal meeting. You may all be there, if you understand what
8 I'm saying, I think. You may sponsor it and carry out your
9 conduit function in that way.

10 Whether you would want to, in effect, put your
11 imprimatur on any particular individual's view, I would be
12 rather cautious about that. That would be the only procedural
13 thing that I think you might consider, and the Commission may
14 want to look at, as well.

15 COMMISSIONER ZECH: My thought on it is, you're
16 coming to us with a request for assistance in providing the
17 public with information, which is appropriate.

18 I must say, though, it does concern me a bit that
19 this Advisory Panel, which is charged with the important
20 responsibilities you are for advising us on the process of the
21 TMI-2 decontamination program, not be sidetracked and not be
22 overtaken, which I think you sense yourselves is a
23 possibility. And if we did broaden your charter, you would
24 have to be sensitive to that completely.

25 I do think, too, that the Pennsylvania Department of

1 Health certainly should be involved, and perhaps you have
2 tried to involve them. If, indeed, their proceedings are not
3 public, it seems to me that some effort should be made to at
4 least make them public, or at least make part of them public,
5 or whatever seems appropriate in that regard.

6 So all I'm saying, I think, is that I would hope
7 that your group could use the good offices of the Pennsylvania
8 Department of Health as really the responsible organization
9 that you would be working with, and that you, as an Advisory
10 Panel, would truly act as a conduit and not get involved in
11 the substance and judgments of the Department of Health of
12 Pennsylvania, which I really do believe does have the
13 expertise to look out for the citizens of Pennsylvania.

14 So my concern is that you involve yourselves with
15 these official groups that do have expertise, but that you
16 don't try to, or by some other means get yourself involved,
17 setting yourself up as a group that perhaps you should not do,
18 for not only the reasons of expertise, but also the reason
19 that you've got other important issues to address.

20 And so that's my only concern. I think we need to
21 help you with your unanimous request for assistance from the
22 public. And I think we have a responsibility to do that.

23 On the other hand, I do hope that we can come up
24 with a way to do that that will protect your primary
25 responsibilities and also involve others who perhaps do have a

1 body of expertise that should be involved.

2 Those are my concerns and my thoughts.

3 MR. MORRIS: I think we're asking for your support
4 and approval, too, in accordance with the criteria that we've
5 outlined, and I think you'll find them very much in keeping
6 with the comments that you have just made. And I feel that if
7 you approve of our proceeding in that fashion, and in the
8 future we do not, then that's a subject that you can very well
9 bring up and do something different with.

10 We have the same concerns you have, because as a
11 panel, we have a responsibility to be looking at all of the
12 other things that are going on at TMI-2. We meet monthly.
13 Many times our meetings go four hours or more, from seven to
14 eleven, and we only have a certain amount of time, too, and we
15 want to carry out our responsibilities properly, and we can't
16 allow this to dominate, simply from that standpoint.

17 So there are, as I said earlier, a lot of safeguards
18 to this. And I appreciate your concerns, and they are
19 concerns that we have expressed, too. But even with them, we
20 feel we must be a conduit. It's a very necessary role that we
21 play.

22 COMMISSIONER ZECH: But has the Department of Health
23 in Pennsylvania been approached? Have you asked them to --

24 MR. MORRIS: We have had them at a meeting in the
25 past, and as Tom Gerusky just suggested, we could do that

1 again in the future, and we will. There may be other people
2 that we should have there, however, besides them. Certainly,
3 the Department of Health can play an important role here. But
4 we just need the ability to carry out this function.

5 If you would be sitting in those meetings and hear
6 what the public is crying out for, I think you might have more
7 of a sense of what it is we're about.

8 And again, I need to remind you that this was not a
9 feeling of the panel last year. It has come about because of
10 the public -- and I'm saying there were some members maybe
11 that felt this way, but not a unanimous feeling -- but because
12 of the public concern, it has become a unanimous feeling that
13 we proceed this way.

14 COMMISSIONER BERNTHAL: Let me just comment, to be
15 very candid about my earlier concern that I expressed. You
16 can't afford to have your impartiality questioned, and
17 therefore, it seems to me, you want to be very careful that
18 you issue whatever disclaimers are necessary and perhaps,
19 therefore, carry out whatever forum function associates with
20 this conduit function, outside the scope of official
21 activities of your group. And I'm sure you all realize that.

22 I am certainly going to trust your judgment on that
23 matter. But that's the concern I have. You don't want to be
24 identified with one school of thought or another. But that
25 does not mean that you cannot carry out what I think is a very

1 valuable and useful function in making sure that people hear
2 the kinds of things that they need to hear. But you don't
3 want to get into arguments over whether you balanced it right
4 or are partial or impartial. And therefore, it seems to me,
5 you want to be cautious to keep that sort of thing outside of
6 your official activities.

7 MR. COCHRAN: I really don't see how it's any
8 different than how we presently operate. In most of our
9 meetings, we listen to the Nuclear Regulatory Commission and
10 GPU, and it doesn't seem to rub off on us.

11 [Laughter.]

12 COMMISSIONER BERNTHAL: That's probably good.

13 MR. COCHRAN: So, you know, I think it's a
14 legitimate concern, but I really don't think that --

15 COMMISSIONER BERNTHAL: Well, it may not be --

16 MR. COCHRAN: -- it's going to have any impact.

17 COMMISSIONER BERNTHAL: It may not be a problem, but
18 I can see that there are some very opinionated people when it
19 comes to issues of the very type that you are proposing to
20 include here, which seems to be the principal issue right now.

21 MR. MORRIS: But the NRC has done a very fine job of
22 providing us with a balanced panel.

23 [Laughter.]

24 And this group feels very free to offer an opposing
25 viewpoint, and it is very closely balanced in that regard.

1 And because of that -- again, I understand your concerns --
2 but it kind of takes care of itself with the kind of panel
3 that we have. And if there becomes a vacancy in the future, I
4 would continue to suggest that you try to maintain that type
5 of balance, because it's worked well for us.

6 COMMISSIONER ASSELSTINE: I think the only comment I
7 was going to make is that I know from the past meetings that
8 there is a range of view on this subject among the panel
9 itself, and I think that your letter was a very constructive
10 approach to this. And the fact that you all reached agreement
11 on it among yourselves, it was a unanimous recommendation, and
12 I thought that gave careful consideration to the kinds of
13 concerns that you have had in the past. I thought it was
14 commendable.

15 And I note also that the Staff, while they disagree
16 about whether there is a need for the panel to do these
17 things, also recommended that we approve your proposal without
18 any modifications.

19 CHAIRMAN PALLADINO: Well, let me make one other
20 point. Out of this may come comments that you want to send
21 back to us or give us feedback on when you meet with us, and I
22 don't want to lose that opportunity, because there may be
23 items of information that you think we ought to know, and I'd
24 like to get it.

25 Now we owe you a response on this. I would like to

1 get the Commissioners to indicate to me by memo to SECY
2 whether or not they approve these guidelines. And meanwhile,
3 I'm going to ask OGC to look at how the charter might be
4 revised to reflect this activity, assuming that the Commission
5 majority votes for it.

6 COMMISSIONER ASSELSTINE: Yes. I think that's a
7 pretty straightforward matter.

8 MR. ROTH: Yes. I just have -- as I told the
9 Chairman, I received this yesterday, and that's why copies
10 were not able to be made -- it's a letter from an organization
11 that I think you're familiar with, Three Mile Island Alert.
12 And it is addressed to Chairman Palladino, and I will just
13 read a couple of paragraphs and then put it into the record,
14 because I think it's useful in this discussion.

15 "The people in the Three Mile Island area urge you
16 and your fellow members of the NRC to specifically agree to
17 let the" -- our panel -- "serve as a conduit" -- I mean, the
18 word is actually used there --

19 COMMISSIONER BERNTHAL: That's a good word.

20 MR. ROTH: -- "for information and health problems
21 which could be arising from the TMI-2 accident and the ensuing
22 decontamination."

23 And I will just skip to the third paragraph, which I
24 think is very interesting:

25 "How the decontamination is to be carried out

1 technically is important, but citizens do not sit through
2 hours of explanation by GPU because they have an interest in
3 all the engineering details. They hope to learn how these
4 plans will affect their health and safety."

5 And that's the bottom line again, so -- I mean, I
6 have a copy, and I will put it in the record. But as you
7 know, I think again all they are asking is for us to serve as
8 a conduit.

9 CHAIRMAN PALLADINO: Okay, thank you.

10 MR. MORRIS: Mr. Chairman, the only question is, do
11 you have a feeling as to when the panel may get an answer on
12 this as to whether it's approved or not, because we do need --

13 CHAIRMAN PALLADINO: As soon as the Commissioners
14 vote. Generally, it takes at least a week to get this kind of
15 activity done.

16 COMMISSIONER ASSELSTINE: I'd be prepared to do it
17 by the end of this week.

18 CHAIRMAN PALLADINO: Let me urge the Commissioners
19 to vote just as soon as they can.

20 COMMISSIONER BERNTHAL: I was ready at the last
21 meeting.

22 CHAIRMAN PALLADINO: Okay.

23 COMMISSIONER ASSELSTINE: I'm ready now, actually.

24 CHAIRMAN PALLADINO: And also, then, we need to
25 change the charter, and we will have to look at that, and that

1 will take a few days. But that's why I want OGC to get
2 started looking at the charter, so that we don't have further
3 delay in implementing this.

4 MR. MORRIS: We have a July 18th meeting coming up,
5 and if we would not hear from you by that time, I would at
6 that meeting maybe start talking to the panel about how they
7 wanted to proceed in handling this, in any event, with the
8 hope that you are going to be agreeing or giving your
9 affirmative approval.

10 CHAIRMAN PALLADINO: Let me do something I
11 characteristically try to avoid -- make the best effort I
12 know -- I'd put a few caveats in it -- I'm going to try to get
13 it to you well before July 18th.

14 MR. MORRIS: Fine. Thank you.

15 The next item really is 6(b), which is the Staff
16 overview of existing studies.

17 CHAIRMAN PALLADINO: Yes. I think at the last
18 meeting we said we were going to ask the Staff to make this
19 overview, and the Staff has made it and issued it in SECY
20 85-185, and I think a copy was sent to the committee.

21 We do have Staff here that would be prepared to
22 highlight that report, if you'd like. And of course we'd be
23 interested in any comments you might have on it.

24 Would the committee like to have a highlight.

25 MR. MORRIS: I think so, if we could.

1 CHAIRMAN PALLADINO: All right. Frank Congel, I
2 think, is prepared to do it.

3 MR. CONGEL: I have a few slides that I'd like to
4 show to just bring out some of the, I think, pertinent points
5 that are in the paper. Due to the time factor, I have cut it
6 back a little bit. I do have copies of the slides available.

7 [Slide.]

8 CHAIRMAN PALLADINO: Could you give me a set? I
9 can't read that, even with my glasses.

10 [Documents tendered to the Chairman and
11 Commissioners.]

12 CHAIRMAN PALLADINO: Thank you.

13 MR. CONGEL: The slides may not be in the same order
14 that you have in the handouts, because I have changed the
15 order just a little bit in the interest of saving some time.

16 On the first slide, I have summarized the principle
17 dose assessment studies that were done at the time or close to
18 the time of the accident itself. These have pretty well stood
19 the test of time in terms of the assessment of both the
20 individual doses and the population doses that resulted from
21 the releases from Three Mile Island.

22 The first group that's listed is the Ad Hoc
23 Interagency Dose Assessment Group, which was made up of
24 members from a number of federal agencies including, of
25 course, the NRC, EPA, HEW, and the Center for Disease Control.

1 The other studies that are listed below it, the
2 Pickard, Lowe, and Garrick study was sponsored by GPU and, of
3 course, was done in the summer of '79.

4 The NRC commissioned its own study that was
5 performed by the Office of Inspection and Enforcement. Now
6 this group did not do a study of the accident consequences
7 itself, but more or less reviewed the works of other groups,
8 as well as the mechanism of the accident.

9 The Kemeny Report -- that is the one that was
10 commissioned by President Carter at the time -- did an
11 extensive review of the accident and its consequences.

12 The NRC had its own special inquiry group, the
13 Rogovin Group.

14 And Governor Thornburgh also commissioned a group to
15 also look at the accident from the state perspective.

16 I just wanted to point out here that all of these
17 groups came out with about the same results -- that is, that
18 the population dose was on the order of somewhere between two
19 and five thousand person-rems, and the maximum individual dose
20 was on the order of 100 millirem.

21 Could I have the second slide, please

22 [Slide.]

23 COMMISSIONER ASSELSTINE: They were also based upon
24 essentially the same data, right?

25 MR. CONGEL: There were several databases that were

1 available at the time, both from estimating the source term
2 from offsite dosimeters, and some were estimated source term
3 from in-plant monitors as well. But they were approached from
4 several different directions by independent groups.

5 MR. DINUNNO: I might add, this is one of the
6 sources of public concern, because while these were
7 independently done, they were done with different assumptions,
8 different bases, and the question is, are these all correct?
9 Which are correct? How correct are they? What are the
10 uncertainties?

11 And without some interpretation of these -- they are
12 fine technical studies -- but without some interpretation, you
13 leave the public confused. They don't understand. Which of
14 these are they to believe? All of them? An official
15 government report? Some summary?

16 And this is part of the problem that you have. Not
17 the lack of studies.

18 COMMISSIONER BERNTHAL: Are you suggesting that they
19 are contradictory?

20 MR. DINUNNO: Well, there have been overview studies
21 which indicate a considerable discrepancy in the assumptions
22 that are used. Some have worked the problem backwards; some
23 have worked it forward. That is, the source term out from
24 outside observations back to the source term, so they are not
25 -- although the results are fairly close together --

1 COMMISSIONER BERNTHAL: I was going to say,
2 methodology may differ, but the question is, are the results
3 contradictory?

4 MR. DINUNNO: The results fall within a range where
5 there seems to be some consensus on the part of the technical
6 community. But the confidence in these results is not as
7 great as if the methodology -- there was agreement by the
8 technical community on a methodology.

9 So that's part of the problem that you have, as
10 perceived by the public, who are trying to understand and
11 accept these.

12 MR. COCHRAN: Well, this is not the sum total of the
13 studies on this issue.

14 MR. DINUNNO: That's right.

15 MR. COCHRAN: The TMI Health Fund has an ongoing
16 study heading by Jan Beyea at the National Audubon Society.

17 CHAIRMAN PALLADINO: I think he's -- are you going
18 to cover that?

19 MR. CONGEL: I was going to mention that in
20 subsequent slides.

21 And also in response to Mr. DiNunno's comment, the
22 TMI Public Health Fund back in November sponsored a meeting,
23 which the Jan Beyea study served as a reference for, and it
24 did look extensively at the literature values of the very
25 things that you were just mentioning -- the approaches, the

1 database.

2 The point I wanted to make here is that, if you
3 notice, the latest one was completed in 1980. This was the
4 original batch of studies that were performed in order to get
5 a definition of really what happened.

6 Now since then, there has, of course, been more
7 information as the plant has been cleaned up. There have been
8 different approaches made. But I wanted to put this up,
9 because I wanted to emphasize the fact that there was a great
10 deal of study that was done at the time of the accident by
11 well-recognized groups.

12 Could I have the next slide, please?

13 [Slide.]

14 MR. COCHRAN: Why do you put these up and entitle it
15 "Principal Studies," and you put the Beyea thing on the other
16 thing and call it a "critique?"

17 MR. CONGEL: Well, the principal studies that I was
18 referring to are the ones that were done early on in the
19 accident. On the basis of the data that I've seen to this
20 extent, the results of those studies have not been shown to be
21 invalid, including the Jan Beyea report. The report that he
22 prepared was used as a basis for the November '84 meeting.
23 After extensive discussion, there has been some reassessment
24 by Dr. Beyea, and he said that his reassessment indicates that
25 some of the outlying higher dose values that had been

1 postulated as a result of his earlier review are no longer
2 valid. So we're back down in the range of the numbers that
3 were published in these original reports.

4 I also don't believe that the Beyea review is
5 complete. Consequently, I don't regard it as a completed
6 study.

7 CHAIRMAN PALLADINO: Tom, you were objecting to the
8 use of the word "principal?"

9 MR. COCHRAN: Well, it is an ongoing study. I
10 object to calling one a study, as if this has some legitimacy,
11 and the other a critique, as if you are flailing away at the
12 real studies, you know, which is -- that's my objection, that
13 it should be listed on the same graph, and it's ongoing, and
14 the interim report was just that, an interim report, and it
15 will take him another two years to finish it.

16 CHAIRMAN PALLADINO: We note your comment, and maybe
17 it can be cleared up further as we go along.

18 MR. CONGEL: The second slide shows some of the
19 epidemiological studies that have already been carried out and
20 completed. I have divided them into two groups: those
21 studies which are done, including the sponsor of the study, as
22 well as the group that was performing the study, and when I
23 get to the next slide, it will be those studies that are
24 presently ongoing and have future time commitments associated
25 with them.

1 I was prepared to spend a few minutes discussing
2 each one of these studies, but in the interest of time, I can
3 refer you to the SECY paper where there is a breakdown of the
4 results, the timespan, the sponsors and the primary purpose of
5 each one of these studies.

6 As you note, most of them have been done by the
7 State of Pennsylvania. In this list, there is one with the
8 Department of Health, Education and Welfare that sponsored the
9 study by the Western Psychiatric Research Institute, and that
10 was the mental health study, the third one on the list.

11 The first study, I would like to point out, the
12 Radiation Dose Assessment Group study, came up with findings
13 that were consistent with the first list of references that I
14 cited -- that is, that the maximum individual dose is on the
15 order of 100 millirem or less.

16 Could I have the third slide, please?

17 [Slide.]

18 Yes, Niel?

19 MR. WALD: I noticed you left out the census itself,
20 which was really the key to all the rest.

21 CHAIRMAN PALLADINO: Which one?

22 MR. CONGEL: No. I think that's the one that I'm
23 talking about right now. I mentioned that I was talking in
24 terms of two groups, those studies that have been regarded as
25 complete and those that are regarded as ongoing. And the TMI

1 Census Group, yes, that was one of the first studies, but it
2 has a five-year span. It's supposed to be redone every five
3 years. That's why I put it in this group, Niel.

4 It is now planning on having a duration of twenty
5 years or more, and it's a rather extensive study, and it has
6 really three sponsoring agencies -- not only the Pennsylvania
7 Department of Public Health, but also the Center for Disease
8 Control and the U.S. Bureau of the Census.

9 The intention of this is to develop a population
10 profile, or the TMI Registry, and from this, provide a basic
11 framework for studying the morbidity and mortality that
12 results in that region. But it is important to note that it
13 is being redone every five years.

14 The pregnancy outcome --

15 MR. WALD: I guess what I was getting at was that
16 those dose assessments of each individual within five miles
17 was made possible because the census provided the information
18 where they were day and night for the ten days from the
19 beginning of the accident. That is essentially complete.
20 That's the underpinning for any other epidemiological study.

21 I guess I mention it to commend the Commonwealth of
22 Pennsylvania for having the foresight to go ahead within a
23 month and get the census work done, because that is crucial to
24 all the rest.

25 MR. CONGEL: That's correct. And I think the

1 recognition of the validity of that census is one that
2 encourages extension in five-year intervals, so we have an
3 updated database from which to study.

4 The pregnancy outcome study was another important
5 study that's being performed, also with a five-year interval.
6 The obvious thing for this is to determine, if possible, what
7 impacts, if any, the TMI accident had on pregnancy outcomes in
8 the TMI vicinity.

9 There are details provided, once again, in the paper
10 on what the study was actually doing and how they are going
11 about the work.

12 Most of these studies have been referenced in one or
13 more papers that the Staff has sent up to the Commission or
14 has provided in other forums as a basis for attempting to
15 establish what health effects were occurring in the area.

16 Once again, one of the things that I'd like to point
17 out by showing all these studies is the extent of the
18 activities that are ongoing.

19 Next slide, please.

20 [Slide.]

21 On this last slide -- I won't read the title --

22 [Laughter.]

23 But I did regard them as principal. The Aamodts'
24 work has been, of course, extensively referenced, especially
25 over the past six months to a year. It has raised some

1 questions that I believe have partially served as a basis for
2 the study that the TMI Public Health Fund is presently
3 sponsoring -- that is, the so-called Columbia Study that is in
4 the next list that I have at the bottom of the slide.

5 There are two ways in which the Aamodts' work itself
6 can be responded to, and that is by looking at the studies
7 that are ongoing, the studies -- epidemiological studies, that
8 is -- that have already been completed, and also it should
9 serve as a basis for the type of information that will be
10 researched by what I have called here in this slide the
11 Columbia Study. It's called the Columbia Study, because there
12 are two professors at Columbia University, who will be
13 carrying out another epidemiological study around the Three
14 Mile Island area.

15 But the charter of this group is a little different
16 than the earlier studies that I cited. The charter of this
17 group is to look for so-called clustering phenomena and to see
18 if there is statistical significance associated with the
19 observed clustering of cancer cases and whether they can be
20 attributed to any radiation exposure around the plant.

21 COMMISSIONER BERNTHAL: Are these medical doctors or
22 statisticians or physicists or psychologists or --

23 MR. CONGEL: I believe they are epidemiologists.

24 COMMISSIONER BERNTHAL: In the Medical Department?

25 MR. WALD: It's in the School of Public Health at

1 Columbia.

2 MR. CONGEL: But I don't know if he's an
3 epidemiologist or if he's a physician.

4 MR. WALD: The leader is an MD.

5 MR. CONGEL: And MD.

6 The conclusion that the Staff has recommended in the
7 paper, based on this, is that there is no other study that we
8 would recommend be sponsored by the Commission. This
9 information should serve as a sufficient base for, hopefully,
10 ultimately establishing the impact of the accident.

11 CHAIRMAN PALLADINO: The committee may really want
12 to get into more depth in a subsequent meeting of the panel
13 than we have this morning. But questions or comments?

14 MR. COCHRAN: We will have to wait until the charter
15 is approved.

16 [Laughter.]

17 CHAIRMAN PALLADINO: What's that.

18 MR. COCHRAN: I said, we'll have to wait until the
19 charter is approved.

20 CHAIRMAN PALLADINO: Well, I'm hoping to get --

21 COMMISSIONER BERNTHAL: I'm going to have to look at
22 this charter one of these days. It sounds like a Magna
23 Charta.

24 [Laughter.]

25 MR. COCHRAN: The Health Fund just received court

1 approval of a second study by Susser and Hatch, who are the
2 Columbia Group, to revisit the epidemiological studies'
3 association with pregnancy outcomes. It is, in effect, a
4 check on some of the Pennsylvania work that is cited.

5 CHAIRMAN PALLADINO: Any other comments or
6 questions?

7 COMMISSIONER ASSELSTINE: I'd be interested if any
8 of you have views on at least the portion of the Staff's
9 conclusion that was just given -- that is, that given these
10 ongoing efforts and particularly the ongoing ones by the TMI
11 Public Health Fund, whether any of you all think there is a
12 need for further studies beyond that point, at least given
13 what we know now.

14 MR. MORRIS: Let me just, if I could -- and there
15 might be other panel members who may want to make a comment --
16 but that would be precisely not the kind of thing we would
17 expect to get into.

18 COMMISSIONER ASSELSTINE: Okay.

19 MR. MORRIS: We felt we are a conduit. We are nt
20 going to be sitting and trying to determine what further
21 studies need to be done, because we feel that to be able to do
22 that, we would have to spend so much time that we would have
23 already violated some of the parameters for our being able to
24 discuss it in the first place.

25 CHAIRMAN PALLADINO: But the Staff may be able to

1 provide important background.

2 MR. MORRIS: Absolutely. And this may be very
3 helpful to the public, for the Staff to be able to outline
4 just what they did today in more detail. But as to their
5 conclusions that no further studies are needed, that's what I
6 offered my comments on, that I feel that is something we would
7 not be offering comment on.

8 MR. DINUNNO: Mr. Chairman, I also would suggest
9 that in receiving the NRC Staff comments and summations of
10 this kind, the NRC, the protector of public health, any
11 comments that one could make -- that is, the NRC could make --
12 with respect to, are these studies credible studies; are they
13 as a peer review group of their own, are they acceptable; are
14 they critiques that are still to be examined -- anything that
15 they could do in their own assessment that would provide some
16 insight to the public as to how they look on these results, I
17 think would be extremely useful and very valuable.

18 CHAIRMAN PALLADINO: Okay.

19 MR. DINUNNO: I certainly -- we would not want to
20 exercise that judgment as panel members. But NRC, who has
21 looked at this from a public health and safety standpoint, may
22 have some observations that they could offer that I think
23 could be extremely useful.

24 Again, another conduit to the public of some
25 official body that has looked at this body of information and

1 has derived some conclusions as a result.

2 CHAIRMAN PALLADINO: All right. Any other comments?

3 [No response.]

4 CHAIRMAN PALLADINO: Okay. Well, thank you, Frank.

5 I guess we have two more items, don't we?

6 MR. MORRIS: Yes, we do, Mr. Chairman.

7 The first one is panel views on GPU's revision to
8 1985 TMI-2 cleanup schedule; need for an order.

9 That is in regard to the three-month slippage in the
10 fuel removal schedule. I believe that the overall schedule
11 for completion still remains sometime in 1988. I would like
12 to say that I've made statements in the past that we never
13 seem to be closer than five years away from cleanup. We are
14 now within three years, at least, of the proposed cleanup
15 ending. And so progress obviously has been made.

16 My concern and that of the panel is that we be aware
17 of delays as they occur, we analyze them, and we make sure
18 that we are not slipping so much that a compliance schedule
19 maybe should have been in place or should be considered.

20 That was the purpose of the comment in the letter to
21 the Commission to just continue to be sensitive to any
22 slippages that might occur. We do not want to go so fast, so
23 as to ignore any safety considerations. They should be
24 utmost. But we also don't want to have it delayed and carried
25 into the 1990s either.

1 I am not sure at this point that we are -- in fact,
2 I feel sure that we are not asking you today to consider a
3 compliance schedule all over again. We are bringing it to
4 your attention that we continue to be concerned about any
5 slippages, and we will be keeping a close eye on it, and we
6 would hope that you would, too.

7 CHAIRMAN PALLADINO: Well, we very much appreciate
8 your comments, and it is an item on which we do intend to
9 exercise diligence, because, as you know, all of us on the
10 Commission are very anxious to see that plant cleaned up, so
11 that it no longer is a problem area.

12 COMMISSIONER BERNTHAL: There is one area that I
13 think your panel could assist on, and that is soliciting --
14 not soliciting -- but gathering any comments or indications
15 you might acquire that this cleanup is at any point becoming
16 resource-limited. I would certainly like to know if evidence
17 begins to appear and accumulate that the resources -- money,
18 if you will -- are beginning to become a problem in meeting
19 the schedule.

20 I trust that isn't the case now, and we've been
21 assured that it isn't. But that is the one thing that I
22 certainly don't want to see happen, and I don't think anybody
23 at this table wants to see happen.

24 CHAIRMAN PALLADINO: And incidentally, that is an
25 important point, because slippages result in higher costs. I

1 concur in your point.

2 Any other comments?

3 COMMISSIONER ASSELSTINE: How about the question of
4 the timeliness of the schedule change? Do you have any
5 concerns about when you found about it, or whether we could
6 have learned about this earlier than we did?

7 MR. MORRIS: Personally, no. I felt that they came
8 forward and gave us the best information they had on it, and I
9 didn't have any concerns with that. I don't know if any other
10 panel member did.

11 CHAIRMAN PALLADINO: Are there any other comments or
12 questions?

13 COMMISSIONER ASSELSTINE: No.

14 CHAIRMAN PALLADINO: All right.

15 MR. MORRIS: The last one is the status of the NRC
16 investigations and enforcement actions related to TMI-2
17 cleanup to be presented by the Staff, as the time permits.

18 CHAIRMAN PALLADINO: Yes.

19 MR. MORRIS: Which hopefully it does.

20 CHAIRMAN PALLADINO: Well, I think we have time for
21 a brief report. I think Ben Hayes is here and will give you a
22 status report. And I guess that's as much as we can give.

23 COMMISSIONER ASSELSTINE: Also Jane Axelrad on the
24 enforcement actions.

25 CHAIRMAN PALLADINO: Oh, yes. Okay.

1 MR. HAYES: Thank you, Mr. Chairman.

2 We currently have two open investigative matters
3 concerning TMI-2. I had reported or presented to the TMI
4 Advisory Panel in my meeting with them in February of this
5 year a report on these two matters. At that time, I believe
6 Mayor Morrissey indicated that our estimated completion date
7 was May or June of this year. I have not met that
8 expectation.

9 We hope to have one investigation completed by July
10 15th. That particular investigation deals with the polar
11 crane handbrake matter. We are currently evaluating the
12 evidence and writing the report as I speak.

13 The other investigation I briefly touched upon in
14 February. It deals with our investigation of TMI-2 operators,
15 licensed personnel. That investigation is being delayed
16 because of illness of one of the very major participants from
17 the Staff, and we ran into some legal problems with a subpoena
18 which has delayed that. Our estimated completion date there
19 is August of this year.

20 COMMISSIONER ASSELSTINE: Have both those problems
21 been resolved, Ben?

22 MR. HAYES: Yes.

23 COMMISSIONER ASSELSTINE: The subpoena and the --

24 MR. HAYES: Yes.

25 COMMISSIONER ASSELSTINE: Okay.

1 MR. HAYES: The subpoena held us up, and --

2 COMMISSIONER ASSELSTINE: Bill is back on the job.

3 MR. HAYES: Bill is back on the job, as it were, and
4 we're moving on.

5 We have asked the Staff for some technical
6 information that we will need to conclude the investigation,
7 and they told us it will be about thirty days before they can
8 provide that. So with that technical information, we hope to
9 conclude that.

10 As a sideline, there is one other TMI matter
11 involving the other reactor, which we also hope to conclude by
12 July. So hopefully within the next sixty to ninety days, the
13 Office of Investigations will no longer have a TMI
14 investigation in our inventory.

15 We have not opened any new investigation this year,
16 I don't believe, and that will conclude it, hopefully.

17 CHAIRMAN PALLADINO: I hope you're not soliciting
18 business.

19 MR. HAYES: No, sir.

20 [Laughter.]

21 No, believe me.

22 CHAIRMAN PALLADINO: Are there any questions from
23 the committee?

24 MR. MORRIS: Just a comment, and that is that we
25 continue to be concerned about the -- it seems like we don't

1 finalize some of these investigations with enforcement
2 actions. It has been long in coming. That is why we continue
3 to raise the question, and I would hope that Mr. Hayes -- and
4 I'm sure these represent the best dates he has -- but I would
5 hope that they will do everything they possibly can to stay
6 with the July and August dates for concluding them, so that
7 come September, as he said today, he will have no further
8 items under his purview.

9 CHAIRMAN PALLADINO: With regard to enforcement
10 actions, we do have Jane Axelrad here.

11 MR. MORRIS: I understand.

12 MR. ROTH: One question on that to Ben. If I am
13 understanding you correctly, Ben, your investigations will be
14 completed at that time, sixty to ninety days. But the
15 question is, that does not say the enforcement will be over at
16 that time, is that correct?

17 MR. HAYES: I think that's a good assumption. From
18 the oral briefings that I have obtained from my staff during
19 the course of the investigation, certainly the Staff would
20 want to look at the results of our investigation to determine
21 whether any enforcement action would be necessary.

22 That would preclude, as you may or may not know,
23 publicly releasing the report until the Staff has made some
24 determination.

25 MR. ROTH: I understand that.

1 MS. AXELRAD: We are looking forward to finishing
2 our inventory of TMI cases as much as Ben is. And as soon as
3 he gets us the results of the polar crane investigation, we
4 will be moving forward expeditiously to get a recommended
5 action to the Commission.

6 On the other matter that Advisory Committee has
7 expressed interest in, with regard to the Parks matter, the
8 Staff has forwarded its recommended enforcement action to the
9 Commission for action, and it is pending a decision there.

10 COMMISSIONER ASSELSTINE: It's in our lap.

11 CHAIRMAN PALLADINO: Okay. Any other questions or
12 comments?

13 COMMISSIONER ASSELSTINE: No.

14 CHAIRMAN PALLADINO: Well, thank you, Jane; thank
15 you, Ben.

16 Now that concludes the list of items that we had on
17 the agenda. I don't know if you have any general comments or
18 members have general comments they want to make before we
19 adjourn.

20 MR. MORRIS: I do not. I don't know if any other
21 panel member does.

22 MR. ROTH: I just have one quick question. Since it
23 is in your lap, the Parks enforcement, could you give a rough
24 timeframe on when a decision would be rendered?

25 The reason I ask, again, is again, it's been so

1 long, and the public is wondering, you know, is anything ever
2 going to happen? And at this point, at least, we can say,
3 "Well, the Commissioners have it." Now how long will you have
4 it?

5 COMMISSIONER ASSELSTINE: Why don't we aim for next
6 week.

7 CHAIRMAN PALLADINO: I can set targets. I can't
8 make guarantees. But I think this is one that deserves prompt
9 Commission action, and I would urge all of us to get to it and
10 try to get it done within the next seven days.

11 COMMISSIONER ASSELSTINE: Yes.

12 MR. ROTH: Thank you.

13 CHAIRMAN PALLADINO: Any other comments?

14 [No response.]

15 CHAIRMAN PALLADINO: Let me confirm the most
16 important action, I believe is for the Commission to approve
17 the guidelines -- to vote on whether they approve the
18 guidelines, and whether they are willing to proceed along the
19 lines suggested by the panel with regard to serving as a
20 conduit for information on health studies.

21 And as soon as we know that, I hope also we'll have
22 from OGC a suggested change in the charter, and we will try to
23 get that done, as I said, well before July 18th. To me, that
24 means at least by July 11th, if we possibly can do it.

25 MR. MORRIS: I think, if I could, in summary, I

1 agree with -- the two main points I would like to suggest is,
2 if that occurs, you just outline that, and that also on the
3 enforcement action, if you could deal with that in a timely
4 fashion, because I think they're both very important.

5 COMMISSIONER ZECH: I'd like to see, if possible,
6 OGC's charter change first, you know. It shouldn't take too
7 long.

8 CHAIRMAN PALLADINO: Well, that's why I am asking
9 them to get started.

10 COMMISSIONER ZECH: Yes, fine. As soon as you can.

11 MR. TRUBATCH: We do recall yesterday with HEU/LEU,
12 there are constraints on the office, and we'll do as best we
13 can.

14 CHAIRMAN PALLADINO: Fine. Well, we will follow up
15 and make sure that it gets attention.

16 Okay, well, thank you very much. We appreciate your
17 coming before the Commission. We certainly appreciate the
18 comments you have made. And unless there is something
19 further, we will stand adjourned.

20 MR. MORRIS: Thank you.

21 [Whereupon, at 12:30 o'clock, p.m., the Commission
22 meeting was adjourned.]

23

24

25

1 CERTIFICATE OF OFFICIAL REPORTER

2
3
4
5 This is to certify that the attached proceedings
6 before the United States Nuclear Regulatory Commission in the
7 matter of: Commission Meeting (Public Meeting)

8
9 Name of Proceeding: Periodic Meeting With Advisory Panel on
10 Decontamination of TMI-2

11 Docket No. :

12 Place: Washington, D. C.

13 Date: Thursday, June 20, 1985

14
15 were held as herein appears and that this is the original
16 transcript thereof for the file of the United States Nuclear
17 Regulatory Commission.

18
19 (Signature)

(Typed Name of Reporter) Ann Riley

20
21
22
23 Ann Riley & Associates, Ltd.
24
25

6/19/85

SCHEDULING NOTES

TITLE: PERIODIC MEETING WITH ADVISORY PANEL ON DECONTAMINATION
OF TMI-2

SCHEDULED: 11:00 A.M., THURSDAY, JUNE 20, 1985 (OPEN)

DURATION: APPROX 1-1/2 HRS

SUGGESTED
TOPICS:

- 1) PANEL VIEWS ON LICENSEE ACTIVITIES RELATED TO LIFTING
REACTOR PRESSURE VESSEL PLENUM
- 2) PANEL VIEWS ON TECHNICAL AND SAFETY ASPECTS OF LICENSEE
PLANS FOR EARLY FUEL REMOVAL
- 3) PANEL VIEWS ON TECHNICAL, SAFETY AND SECURITY ASPECTS
RELATED TO FUEL SHIPPING CASK
- 4) PANEL VIEWS ON GPUNC TMI-2 WORKER RADIATION PROTECTION
PROGRAM
- 5) PANEL VIEWS ON FLOW OF INFORMATION TO ADVISORY PANEL
(SECY-85-153)
- 6) SCOPE OF INQUIRY AND CRITERION PROPOSED BY ADVISORY PANEL
IN EXAMINING EPIDEMIOLOGICAL STUDIES ASSOCIATED WITH
RADIATION RELEASED DURING THE TMI-2 ACCIDENT; STAFF OVERVIEW
OF EXISTING STUDIES (SECY-85-185)
- 7) PANEL VIEWS ON GPUNC'S REVISION TO 1985 TMI-2 CLEANUP
SCHEDULE; NEED FOR ORDER
- 8) STATUS OF NRC INVESTIGATIONS AND ENFORCEMENT ACTIONS RELATED
TO TMI-2 CLEANUP (TO BE PRESENTED BY THE STAFF AS TIME
PERMITS)

DOCUMENTS: - 6/4/85 LETTERS FROM A. MORRIS TO CHAIRMAN PALLADINO
- 6/6/85 LETTER FROM CHAIRMAN PALLADINO TO A. MORRIS

PRINCIPAL CRITIQUES

. AAMODTS' STUDY

- DOOR-TO-DOOR SURVEY
- IMPLIES DOSES AND RELEASES HIGHER THAN PRINCIPAL ESTIMATES
- DISPOSITION - CONTINUING PA STUDIES

. TMI PUBLIC HEALTH FUND

- BEYEA REPORT
- NEWER INFORMATION
- COLUMBIA STUDY

EPIDEMIOLOGICAL STUDIES - ONGOING

- . TMI CENSUS (SURVEY EVERY 5 YEARS)

PERFORMED BY PA. DEPT OF HEALTH; CENTERS FOR DISEASE CONTROL & U.S. CENSUS BUREAU

- . PREGNANCY OUTCOME STUDY (SURVEY EVERY 5 YEARS) - PA.
- . CONGENITAL/NEONATAL HYPOTHYROIDISM STUDY (ANNUALLY) - PA.
- . INFANT MORTALITY STUDY (ANNUALLY) - PA.
- . EPIDEMIOLOGIC SURVEILLANCE IN PENNSYLVANIA (NEW STUDY) - PA.

EPIDEMIOLOGICAL STUDIES - COMPLETED

STUDY

- | | |
|------------------------------------|--|
| . RADIATION DOSE ASSESSMENT STUDY | PA., UNIV. OF PITTSBURG |
| . HEALTH BEHAVIORAL (STRESS) STUDY | PA. |
| . MENTAL HEALTH STUDY | HEW/WESTERN PSYCHIATRIC RESEARCH INSTITUTE |
| . HEALTH ECONOMICS STUDY | PA., CHILTON RES. SERVICES |
| . RESIDENTIAL MOBILITY STUDY | PA. |

DOSE ASSESSMENT STUDIES - FINDINGS

. RELEASES

- NOBLE GASES (2.4×10^6 - 13×10^6 Ci)
- RADIOIODINES (14 - 15 Ci)

. DOSES

- MAXIMALLY EXPOSED INDIVIDUAL < 100 MREM
- AVG. DOSE WITHIN 50 MILES ~ 1.5 MREM

PRINCIPAL TMI DOSE ASSESSMENT STUDIES AND REVIEWS

- . AD HOC INTERAGENCY DOSE ASSESSMENT GROUP - NUREG-0558 (1979)
- . PICKARD, LOWE & GARRICK - TDR-TMI-116 (1979)
- . US NRC OFFICE OF INSPECTION & ENFORCEMENT - NUREG-0600 (1979)
- . PRESIDENT'S COMM. ON THE ACCIDENT AT TMI (KEMENY REPORT) (1979)
- . US NRC SPECIAL INQUIRY GROUP (ROGOVIN) (1980)
- . REPORT OF THE (PA) GOVERNOR'S COMM. ON TMI (1980)

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CONCLUSION

. BASED ON THE FINDINGS FROM THE STUDIES COMPLETED TO DATE, THE CRITIQUES, AND THE ONGOING STUDIES, THE STAFF SEES NO NEED FOR ADDITIONAL STUDIES.