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ADVISORY PANEL FOR THE DECONTAMINATION OF TMI-2

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AGENDA
ADVISORY PANEL FOR THE DECONTAMINATION
OF TMI-2

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1 THE CHAIRMAN: Good evening ladies and
2 gentlemen. I did hear from Tom Gerusky that he
3 couldn't be here tonight. There will be a meeting of
4 the panel, at least tentatively, set for June 20 and I
5 think it is tentatively set to start at 10:00 a.m. in
6 Washington with the Commission.

7 Since the last meeting, I received one piece
8 of correspondence. I am going to ask it to be included
9 in the minutes. That is a May 13 letter from GPU
10 regarding a request on May -- that involved maximum
11 internal dosage and radiation worker turnover. And
12 rather than read it, I ask it be recorded in today's
13 minutes.

14 The last thing I have as part of my
15 introductory remarks is to bring up, I guess ask the
16 question on the ad that appeared in some papers, and
17 particularly in the Washington Post. A letter that was
18 apparently sent to me by a Dr. James C. Fletcher who is
19 Chairman of the TMI Safety Board.

20 The ad basically runs a letter that indicates
21 that that letter came to me, or at least is dated April
22 26. Let me say at this point I have no recollection of
23 having ever received that letter. I was on vacation
24 and returned this past Tuesday after being out of town
25 for a week and a half.

1 My office had been contacted and was asked if
2 we wanted to receive a copy of the ad. We received the
3 copy May the 9th that we were told, I am told by my
4 office, was going to run. We were not asked whether we
5 were agreeable to have it run. We were told it was
6 going to run.

7 I found out immediately upon coming back and
8 reading my correspondence, that would have been
9 yesterday, and this thing ran the next day. I am going
10 to research my office again and ask if that letter ever
11 came in. It is bad enough that I don't recall seeing
12 the letter. But I think it is in very poor taste, in
13 the very least, that GPU would run an ad with a letter
14 that is addressed to me when the same letter went to
15 the NRC.

16 I don't know. I received no explanation of
17 it. At the very least it is poor taste and I resent
18 the way it took place.

19 I don't know if anyone here from GPU could
20 explain it or not, why you felt such a letter was
21 necessary. If information was necessary to get to the
22 public, why didn't you run the information and not the
23 letter that I didn't receive yet and you didn't talk to
24 me about?

25 MR. STANDERFER: I am sorry you didn't get

1 the letter. I am sure it was sent. We tried to
2 coordinate with your office in the intent to use that
3 in advertisements. And if that discussion with your
4 office didn't consummate with you, I am sorry.

5 THE CHAIRMAN: I asked the question of my
6 staff, Were we asked whether we were agreeable to a
7 letter being run? And I was specifically told, no,
8 that we were told that this ad was going to run and
9 would we like a copy of the ad. The answer was, yes,
10 we would like a copy of the ad, which was read last
11 night at about 10:30 by me. The ad was read; the
12 letter was not read or received as far as I know.

13 MR. STANDERFER: Our intention was to be sure
14 that you would get that in plenty of time. And it was
15 our intention that, if there was some objection on your
16 part, that you would have time to register that with
17 us. If we didn't finish that discussion, I am sorry.

18 THE CHAIRMAN: Could you explain to me why it
19 was necessary to have a letter that was addressed to me
20 as chairman as the basis for an advertisement by GPU?

21 I just feel somewhat used in this.

22 MR. STANDERFER: I am responsible for cleanup
23 and not responsible for the public affairs activities.
24 They are under another vice-president.

25 But I think we feel that endorsement of the

1 work on the project is important to indicate that the
2 project is being done well.

3 THE CHAIRMAN: I have one other question at
4 this point and that is, it is my understanding that a
5 letter was sent to NRC first, addressed to them, the
6 same letter.

7 MR. STANDERFER: I don't believe so. I
8 believe they have a copy of the letter that was sent to
9 you; but we have not sent that letter to anybody else.

10 THE CHAIRMAN: Maybe Mike can speak to that,
11 if you would. It was my understanding there was a
12 similar letter sent to the NRC that you were asked to
13 copy and send to the panel. Because of reasons that
14 you have, you didn't feel that was appropriate.

15 MR. MASNIK: I have a letter that was
16 attached. In other words, the statement was sent to
17 Mr. Denton under Mr. Clark's signature dated May 8.

18 And then attached to that in the concluding
19 paragraph they state that a letter was also sent to
20 Mayor Morris, and a copy of that letter is attached for
21 your information.

22 Now, whether it tracks the newspaper article
23 verbatim, I did not check that.

24 THE CHAIRMAN: I thought you mentioned to me
25 that you had received information, the same kind of

1 information, "you" being the NRC, and asked to provide
2 copies of that to panel members; but you felt that was
3 not something the NRC should be doing and that led to
4 the letter.

5 MR. MASNIK: I received a copy of this letter
6 with a cover letter from a member of GPU Public Affairs
7 with the note on it saying that this may be of interest
8 to the Panel and would I distribute it. Something to
9 that effect.

10 And I called the individual and said I am
11 responsible for screening all of the information; and
12 we generally provide them with technical information.
13 And this particular document, I felt, didn't fall under
14 the category of the normal distribution to the Panel.

15 I said, however, if you feel this is
16 information that the panel should receive, there would
17 be no reason why you couldn't send it directly to the
18 chairman of the Panel with a request that it be
19 distributed to the Panel.

20 THE CHAIRMAN: But are you saying the first
21 information you got about distributing that was when?

22 MR. MASNIK: In May, the beginning of May.
23 Now, also at the same time I got the normal
24 distribution through the NRC internal system of the
25 letter that was sent to Mr. Denton, which had the copy

1 or had attached a copy of the letter to you.

2 THE CHAIRMAN: Well, I am glad you received
3 your copy of my letter. That's nice. Tom, did you have
4 something?

5 I want everybody to see I am not talking
6 about a little ad. This is a Washington Post ad. I am
7 sure it appeared in other newspapers. I think maybe the
8 Lancaster newspapers, although I haven't seen it. I
9 haven't had a chance to see it in the Lancaster
10 newspaper. They could afford to pay for several weeks
11 of the ad in the Lancaster paper.

12 MR. SMITHGALL: We spent a meeting in
13 Lancaster listening to your problems with the
14 Philadelphia Inquirer article about you and the
15 implication of problems you had with that.

16 Yet another month later you run an ad where
17 you imply by the heading of our chair here and of an
18 advisory member to the Nuclear Regulatory Commission
19 that they were in full compliance with the whole
20 cleanup effort. And I think that is the problem, if I
21 can read through this.

22 On the one hand you spent a whole meeting and
23 on the next hand you are running an ad that does the
24 same thing. That is my particular problem.

25 I think it would bear getting approval of the

1 Panel before you run a letter in an advertisement form.

2 MR. STANDERFER: I thought we had; and my
3 understanding and intent was to try and get that
4 discussion. To the extent that didn't happen, I
5 apologize.

6 THE CHAIRMAN: You may check on that, but I
7 was very clear in asking whether we were asked for
8 approval or whether we were told it was going to
9 happen. And we were told it was going to happen and
10 that is my understanding.

11 MR. STANDERFER: I believe George McKelvy
12 from our public staff is here and he is the gentleman
13 who had the discussion with your office. If you would
14 like to ask him the question directly.

15 THE CHAIRMAN: I would be happy to. Because
16 the copy that my office received was received on May 9.
17 It was sent out May 8 and a copy was sent by George
18 McKelvy. And if George is present, I would like to
19 hear what was said.

20 MR. MC KELVY: George McKelvy, manager of
21 Public Affairs at TMI. With respect to the ad, I
22 called the Mayor's office on the 6th of May and I
23 believe he was out of town at the time.

24 I told the staff member I spoke with there
25 was an ad we were composing to run. And after that

1 conversation, I indicated it was a proposal. I sent a
2 copy of the ad in draft form to the Mayor's to the
3 attention of that staff person. That is what
4 transpired.

5 THE CHAIRMAN: For review and comment prior
6 to running?

7 MR. MC KELVY: That was the understanding.
8 Obviously, it was not explicit enough.

9 THE CHAIRMAN: Did you get any comment from
10 my office?

11 MR. MC KELVY: No, I did not.

12 THE CHAIRMAN: I was out of town from the 4th
13 of May until the 14th of May, and this ran May 16.

14 You can see the great opportunity I have had
15 to comment on it. I read this ad last night between
16 ten and eleven o'clock at night. And I would expect,
17 if you send a draft of a proposed release for comment,
18 that you would wait until you got the comment, if that
19 was your intent.

20 My office said you told them it was going to
21 run and you asked if they would like a copy of it and
22 we said yes. I will double check.

23 But I am very upset with the way it was
24 handled. And nothing you said here tonight changed my
25 mind on that. I don't think you were very specific.

1 And I think if you were really interested in getting
2 comment, you make sure when you are going to run a
3 letter to somebody and do it to this size in the
4 Washington Post and you intended to get comment, you
5 certainly make sure you got the comment before
6 proceeding. And you didn't get anything from me.

7 MR. MC KELVY: No, we didn't.

8 MR. COCHRAN: Mr. McKelvy, do you attend the
9 meetings of your Safety Advisory Board?

10 MR. MC KELVY: No.

11 MR. COCHRAN: Do you?

12 MR. STANDERFER: Yes, I do. In fact, the
13 Safety Advisory Board attended your meeting in
14 Lancaster last month.

15 MR. COCHRAN: Do you recall the discussions
16 in the meeting where they drafted the language that
17 went into the letter? What was their purpose in
18 drafting that language?

19 MR. STANDERFER: They attended the meeting in
20 Lancaster. The following day in the wrapup, they chose
21 to provide us that language.

22 I don't know the basis for that other than
23 they felt it was appropriate after hearing the
24 discussions the night before. I can arrange to have
25 Dr. Fletcher attend your next meeting, and he could

1 speak to that.

2 MR. COCHRAN: Was the language requested by
3 the Board or other GPU people?

4 MR. STANDERFER: The language was not
5 requested. It was voluntarily offered by the Safety
6 Advisory Board after attending your last meeting in
7 Lancaster. Whether it was prompted by your meeting, I
8 don't know.

9 MR. COCHRAN: To the best of your knowledge
10 it was not prompted by any member of GPU?

11 MR. STANDERFER: That is correct. And I
12 would be glad to arrange to have Dr. Fletcher speak to
13 that point.

14 MR. COCHRAN: Are the meetings of that board
15 transcribed?

16 MR. STANDERFER: There is a report of each
17 meeting, but no transcript. It is basically a
18 technical review meeting where we make technical
19 presentations to them and they then give us advice.

20 MR. COCHRAN: But there are minutes of those
21 meetings?

22 MR. STANDERFER: Yes.

23 MR. COCHRAN: Can we get the minutes of those
24 meetings?

25 MR. STANDERFER: I don't see why not.

1 MR. COCHRAN: When was a decision by GPU made
2 to publicize the letter that was -- that Dr. Fletcher
3 wrote to Mayor Morris?

4 MR. MC KELVY: I don't know when that
5 decision was made.

6 MR. COCHRAN: Do you know when you were first
7 aware of that decision?

8 MR. MC KELVY: I was aware there was a
9 proposal to have such an ad on the 6th of May when I
10 contacted the Mayor's office.

11 MR. COCHRAN: But you weren't involved in the
12 discussion?

13 MR. MCKELVY: The next thing I knew about the
14 ad was today.

15 MR. COCHRAN: Were you involved in previous
16 ads that addressed the Lancaster articles in the Kelly
17 decision?

18 MR. STANDERFER: What matter are you talking
19 about?

20 MR. COCHRAN: Another one of those "We
21 thought you should know" ads.

22 THE CHAIRMAN: It was the Philadelphia
23 Inquirer article.

24 MR. COCHRAN: It was quoted from U. S.
25 District Justice Kelly's decision.

1 MR. STANDERFER: In Kansas?

2 MR. COCHRAN: The question was, I believe, of
3 Mr. McKelvy whether he was involved in that ad as well?

4 MR. MC KELVY: I was aware there were a
5 series of you ought to know ads in preparation, but I
6 couldn't distinguish the ad you are referring to.

7 MR. COCHRAN: Who in GPU would be responsible
8 for reviewing the technical content of that ad?

9 MR. MC KELVY: The principal responsibility
10 for advertising rests with our Vice-President of
11 Communications. There are a number of individuals
12 within the company who review the copy of proposed
13 advertisements.

14 MR. COCHRAN: In the previous ad that GPU put
15 out on the newspaper articles, it quotes the Kelly
16 decision, which states in part in the ad, "This Court
17 rejects the opinion and testimony of Dr. Morgan and Dr.
18 Gofman because they both evidenced an intellectual
19 dishonest invention of arguments to protect their
20 opinions."

21 I was wondering if that statement of Kelly
22 with regard specifically to Dr. Morgan is shared by GPU
23 and if it is shared by you? You certainly know Dr.
24 Morgan.

25 MR. STANDERFER: Yes, and I read the full

1 text of Judge Kelly's view. And, in fact, I have not
2 read that ad you are talking about, but I read the text
3 of the Court.

4 MR. COCHRAN: Do you share the Court's
5 opinion of Dr. Morgan?

6 MR. STANDERFER: I did not attend any of the
7 court sessions and I am unfamiliar with the testimony.
8 And I am not qualified to comment on what was said in
9 that court proceeding.

10 MR. COCHRAN: Well, I have read the opinion,
11 too. And I have also noticed a number of technical
12 errors made by Judge Kelly in his opinion having quoted
13 the briefs of the Justice Department and surely you
14 must have picked up some of the errors.

15 MR. STANDERFER: I have seen errors on both
16 sides.

17 MR. COCHRAN: I also recognize that it has
18 been usually two doctors (inaudible) who are on your
19 Advisory Board were also witnesses on behalf of the
20 Government in that case and the Judge has high praise
21 for them and low esteem for Dr. Morgan.

22 MR. STANDERFER: I can't speak as to whether
23 they testified or not. I just read the text of the
24 Judge's statement.

25 THE CHAIPMAN: I must jump in only on this

1 issue. There is an item on the agenda, Item 8, which
2 is a wrap up of the whole discussion on the
3 Philadelphia Inquirer article.

4 I am getting some looks from panel members
5 that are suggesting maybe we are missing the agenda by
6 getting into that now.

7 MR. COCHRAN: Can I finish my point?

8 THE CHAIRMAN: Sure. Let me before you
9 begin, I got a note that says Barbara or Jeffrey Quinn,
10 who are apparently in attendance here, are told they
11 have a car that is blocking the driveway in the front
12 of the building.

13 MR. COCHRAN: I think Judge Kelly's remarks
14 about Dr. Morgan were uncalled for, even if you just
15 read his opinion.

16 The question I ask GPU is whether, before you
17 repeat such statements as in these public
18 advertisements as inferring that this is an accurate
19 description of Dr. Morgan, whether there is any effort
20 on the part of the Public Affairs' people who are
21 responsible for the writing of these articles
22 presumably to see whether the statements like these are
23 statements that represent GPU's views, or are they --

24 MR. STANDERFER: All I can say is, I believe
25 we quoted the Judge accurately.

1 MR. COCHRAN: I agree with that. But do you
2 stand behind the opinions, does GPU stand behind the
3 opinions of the Judge with respect to Dr. Morgan?
4 Basically you are running the guy into the ground. Do
5 you stand behind that opinion?

6 MR. STANDERFER: We believe we quoted the
7 Judge accurately.

8 MR. COCHRAN: I heard that. Now, will you
9 answer the question?

10 THE CHAIRMAN: I must at this time --

11 MR. COCHRAN: I would like an answer to the
12 question.

13 THE CHAIRMAN: I will ask him one more time.
14 If he chooses not to answer the question, I think that
15 is it. He has replied twice.

16 MR. STANDERFER: Our Public Affairs office
17 would like to answer the question.

18 THE CHAIRMAN: I would only like to spend
19 time to answer the question, then I would like to get
20 back to the rest of the agenda. Neal?

21 MR. WARD: I would like --

22 MR. COCHRAN: I would like to get an answer
23 first.

24 MR. WARD: This is not a Parlimentary
25 procedure that allows you to block all discussion.

1 This ad in response to the ad in the Inquirer
2 was fully discussed at a whole long session in
3 Lancaster. If a member of the committee wasn't there
4 to discuss it, do we all have to go back to the last
5 meeting?

6 THE CHAIRMAN: We do when we get down to Item
7 8, because that is a wrapup discussion. But right now
8 we should not be doing this.

9 I would, however, since we have gone through
10 ten minutes, we will at least ask GPU to answer the
11 question. I will give Tom Cochran a chance later on.

12 MR. BEDELL: I was involved in the
13 preparation of the Inquirer ad.

14 The purpose of running that particular point
15 in the ad was to address the fact that the Inquirer in
16 its series had virtually dismissed entirely the
17 consensus view on radiation standards and health
18 effects as represented in the Federal regulations
19 governing those fields.

20 The point we were making in citing Judge
21 Kelly's opinion was, as we said, that the opinions
22 reported by the Inquirer were on the fringe of opinion,
23 did not represent the consensus views on the matter of
24 health effects and worker standards.

25 In running that decision we were not second

1 guessing the Court. I am sure this committee would not
2 want us to second guess the Court. We had simply
3 quoted the findings of a Federal judge who held
4 extensive proceedings and reached his own conclusions.

5 They were conclusions in this matter that
6 happened to coincide with our conclusions that the
7 opinions cited in the Inquirer were on the fringe of
8 the matter and were not the consensus opinion on the
9 health effects standards that we follow.

10 THE CHAIRMAN: You are really not answering
11 the question. The question is --

12 MR. DI NUNNO: He answered it by saying he is
13 not competent to answer the question.

14 THE CHAIRMAN: That is all I want him to say.

15 MR. DI NUNNO: He said it twice. We are
16 badgering the guy. He said it twice if you look in the
17 record, he is not competent to answer the question. He
18 has not looked at the individual testimony. What more
19 can the man do?

20 THE CHAIRMAN: Joe, you have had your say,
21 and I am going to rule you out of order at this point.

22 I am saying, from my standpoint, that the
23 question that was asked has not been answered in the
24 manner I expect it to be. However, it has been
25 answered in the way you want it, and that is fine. I

1 understand that. You don't feel competent in going
2 beyond that. That is all you had to say and you have
3 answered it.

4 Does anybody have any comment on what my
5 opening comments were?

6 MR. COCHRAN: I would like to return to this
7 issue later.

8 THE CHAIRMAN: Fine.

9 MR. ROTH: The only statement I would like to
10 make at this point, and it is really not directed to
11 Frank or Doug, is the fact that I join the Chairman in
12 his displeasure of it. But even more so because I
13 question just how involved Dr. Fletcher really is in
14 the whole process.

15 And the reason I say that is at a meeting in
16 Washington D. C. where Dr. Fletcher and some other
17 members of your Advisory Board were there. Dr.
18 Fletcher in a statement to the Commission said, and I
19 am paraphrasing it, the fact that one of the things
20 that pleased them is the fact that the investigation
21 into the whistle blowers allegations were
22 unsubstantiated, completely wiping out the entire issue
23 in a false way. And he did make that statement.

24 And at a meeting after that I was the one,
25 and some other people who pointed out to the Commission

1 that certainly was an error. And they did agree.

2 So all I am saying at this point is that the
3 chairman of your Safety Advisory Board can go before
4 the Commission and make such an absolutely ridiculous
5 statement like that without having somebody point out
6 the facts to him, I have to question the validity of
7 his involvement at this point in a letter, for \$15,000
8 or \$20,000 a Washington Post full page ad.

9 MR. STANDERFER: Dr. Fletcher made a
10 statement on November 7 with the NRC Commission. I was
11 present. I do not recall what he said on that point.

12 Again, if you would like, I believe I can
13 arrange for him to be in attendance at your next
14 meeting to answer questions to that.

15 THE CHAIRMAN: Maybe that will be appropriate
16 in regard to that.

17 MR. STANDERFER: And the Safety Advisory
18 Board does meet every two months and goes thoroughly
19 into all phases of the project. So they are thoroughly
20 familiar with the activities of the work.

21 MR. SMITHGALL: I would just like to get back
22 to the intent of what Art started with here.

23 I want to know your feelings as to the
24 appropriateness of running the ad the way you did with
25 the heading of our chair and the implication of our

1 Panel, the Advisory Panel, to the statements that are
2 in the letter. That is what I am concerned about.

3 MR. BEDELL: There was no implication in the
4 fact the letter was addressed to the Chairman of this
5 panel. One of the functions of this Panel is to serve
6 as conduit of information to the public. The public
7 has been quite concerned. And one of the reasons it is
8 concerned is the Inquirer series. They are concerned
9 in the way the cleanup is being conducted.

10 The Advisory Panel that we put together to
11 advise us of the safety of the cleanup is made up of
12 some of the most eminent people in this field. They do
13 not lightly put their names to a letter of that sort.
14 If they have reached that conclusion, we think it is
15 important that people of this area who are concerned
16 about the safety of the cleanup know what they have
17 concluded.

18 We were very pleased, and apparently the
19 discussion at the last meeting of this Panel on the
20 series had some motivating influence.

21 MR. SMITHGALL: I understand your reasons for
22 promoting what is in the text.

23 MR. BEDELL: If Mayor Morris was not the
24 chairman of the Panel, somebody else would be. The
25 letter needs to be addressed to this Panel.

1 MR. SMITHGALL: In an advertisement?

2 MR. BEDELL: The purpose of the advertisement
3 was to allow the people of this region to read the
4 letter. They don't have that opportunity through any
5 other means.

6 That is also the reason we had to run the ad
7 to respond to the Inquirer. They do not have the
8 opportunity to hear from us in any other means in
9 detail.

10 It is very unfortunate that we have to spend
11 the monies that was necessary to be heard. But we feel
12 we need to be heard. And the people of this region
13 have a right to hear from us.

14 THE CHAIRMAN: I guess in your opinion, in
15 anybody else's opinion, it is certainly your right to
16 have your wording, to get some comment from this group.
17 And that is your right to run that.

18 I resent the manner in which you indicate
19 that the letter with my heading was important when this
20 Panel as a group had never even received the letter.
21 And I as an individual certainly question ever
22 receiving it. I didn't even have a chance to be
23 contacted on it. And that bothers me.

24 And why you felt it was necessary to have my
25 name as the chairman of the citizens group, and the

1 fact the citizen's group has not had a chance to even
2 discuss the letter. The implication to the public is
3 that this comes from the Citizen's Panel Chair. They
4 received this and it has been fully aired and they are
5 running it.

6 MR. BEDELL: I am not aware of what happened
7 in terms of the mailing of the letter and why you
8 didn't actually get the letter. You were, however,
9 advised and your staff was advised that we were
10 proposing to run an ad on that matter.

11 Now, it seems to me the essential fact is the
12 content of that letter. It is not whether the Advisory
13 Panel had discussed it, has an opinion on it, reviewed
14 it, endorses it, rejects it, or anything.

15 The fact of the matter is the Advisory Panel
16 was set up to receive information that is important to
17 the cleanup and that the public needs to know. We sent
18 the letter to the Advisory Panel, and we also made it
19 public in the form of an advertisement. Because that
20 is the only way the letter would have been used in
21 detail.

22 Now, if you are in business, and I think that
23 is why you are all here and I honor you for it, to
24 provide the public with information on the cleanup of
25 TMI Unit 2, this is information on the cleanup of TMI-2

1 that was submitted to your committee and would not have
2 reached the public in any other means if we had not run
3 the advertisement.

4 We feel it is important in light of what the
5 public has been hearing about the cleanup, principally
6 through the Inquirer series, that that kind of
7 statement be made available to them. And I don't think
8 the fact that the letter has a salutation in any way
9 implies endorsement of that letter by the person named
10 in that salutation.

11 THE CHAIRMAN: It may not. Your very
12 statements here shows the arrogance with which you
13 conduct this kind of attitude. That is what I resent.
14 It is not you right to do it, it is the arrogance with
15 it.

16 I feel I was set up by this. And when you
17 talk about being business people, good business people
18 if they were going to do this type of thing and they
19 wanted input from the person who received the letter,
20 would have taken the time to give that person an
21 opportunity to comment. If that was really what was
22 sought, good business practice would ask for that. And
23 you did not display that.

24 I am not going to say more than on this
25 because I am really upset with it; but you did not

1 display good business practice. It is not necessarily
2 what the implications are; it is just the arrogance
3 that is constantly displayed in this kind of public
4 statement. And I really resent it.

5 MR. COCHRAN: The implications in your
6 remarks were that the comments in Dr. Fletcher's letter
7 could only serve a useful purpose if they were relayed
8 to the public. And that to me implies that the
9 objective by Dr. Fletcher and company in writing the
10 letter was not to inform this panel, but was to make a
11 public statement.

12 And they decided to do so to use the vehicle
13 of a letter to Mayor Morris as a means of setting up an
14 ad, or some means of getting that information out.

15 Now, I don't know whether that is the case.
16 But that certainly is the implication.

17 MR. STANDERFER: We can have Dr. Fletcher
18 discuss his intentions. I think the statement resulted
19 from attendance of the last meeting of this panel. And
20 it was addressed to this panel.

21 THE CHAIRMAN: We may want to take him up on
22 that. Any other comments from the panel at this point?

23 (No response.)

24 THE CHAIRMAN: We would go on to the NRC
25 status report and an update on NRC pending

1 investigations and enforcement actions. Bernie Snyder
2 will address this.

3 MR. SNYDER: Very briefly I want to go over
4 those recent actions and the other things we have done,
5 primarily to give you a feel for the fact that the work
6 is accelerating. And it is a measure of that by the
7 fact of a number of things in my office.

8 There is a hand out, of which there are
9 copies for the public on one of the chairs behind me,
10 dated the 16th. What I have done there is very briefly
11 reviewed what we have done in the last two and a half
12 months from March 1 until May 15.

13 And during that period the TMI program
14 office, which is my office, did complete safety
15 evaluations and issued -- completed our reviews and
16 issued approvals for five major cleanup activities and
17 systems.

18 The first one being the plenum assembly lift
19 and transfer, which was done successfully yesterday.
20 And from my perspective in watching it and in talking
21 to my staff who were in the command center at the
22 time, it went very well. The company handled it well.
23 And it was very well planned. And it went off
24 basically without any hitch at all.

25 The second item we have approved during this

1 period based on extensive review and many meetings is
2 heavy load handling over the TMI-2 reactor vessel,
3 which is always a difficult question. On a restrictive
4 basis, naturally, there are certain things that have to
5 be handled over it.

6 We have improved the design and installation
7 of the fuel canister storage racks, both in the deep
8 end of the canal inside the containment building and
9 also in the fuel storage pool in the fuel handling
10 building.

11 We did an extensive review and engaged our
12 consultant on refurbishment and retesting of the polar
13 crane auxilliary hoist, a 25-ton auxilliary hoist, on
14 the same crane that was load tested last year.

15 And the final major item that was reviewed
16 earlier on in this time period was the internal
17 indexing fixture processing system, which is a water
18 cleanup system.

19 Just to give you a feel, I had our office
20 count the total number of detailed procedures that
21 implement things like the five I just listed. In that
22 time frame of March 1 to May 15, we reviewed and
23 approved 161 detailed procedures. That is handled in
24 large measure by Dr. William Travers' office, my deputy
25 at the site.

1 And we expect that in the coming months that
2 we will probably be reviewing and taking action on
3 about 60 per month, which is a very significant work
4 load. But we are gearing up to handle that.

5 I should indicate in the past, at least on
6 initial review, we have rejected somewhere around 10
7 percent and required the company to do something
8 different, with changes. And I think that is probably
9 true with these numbers as well.

10 But we also have major items with future
11 cleanup activities. We are reviewing the defueling
12 water cleanup system. We are taking under review the
13 safety evaluation report we received from the company
14 on the equipment hatch. We are reviewing the technical
15 design of the fuel canisters, the containers that will
16 receive the damaged fuel. We have recently received a
17 status report on the decontamination status of the
18 reactor building. We have that under active review.
19 And under review a recirculation system of the reactor
20 building sump.

21 You have received correspondence on all of
22 these major review items. And I know you receive a lot
23 of paper, but again I wanted to put this in some
24 prospective for you as to what we are doing.

25 I would be glad to answer questions on this.

1 Dr. Masnik will give you a status report on inspection
2 and enforcement matters. If anyone has any questions?

3 MR. SMITHGALL: I was going over that last
4 packet of information we got and trying to decipher the
5 input of it all.

6 My question is, Are there any significant
7 changes to the technical specifications of the plan
8 that you have altered? I guess the one that stuck out
9 in my mind is the proposal of GPU to change some of the
10 technical specifications in the recovery operation as
11 deleting the PEIS from any review significance.

12 Should we be concerned about these things?

13 MR. SNYDER: Could you repeat that?

14 MR. SMITHGALL: Looking at April 12, GPU
15 proposal.

16 MR. SNYDER: Which item is that? I have the
17 list, but not the enclosures.

18 MR. SMITHGALL: Maybe I am taking the import
19 of all your technical reviews of what you are giving
20 me. Change request 4829, I guess, is the one I see
21 from GPU. That was just one I picked out. Another was
22 changing materials status reports and nuclear material
23 transfer reports, inventory and record requirements.

24 Are you altering those technical
25 specifications of the plan as they go along with

1 recovery? And are they significant to what we should
2 be doing here on the panel?

3 MR. SNYDER: I don't think any of them are of
4 great significance. Basically what GPU has proposed
5 and has been doing actually over the last five and a
6 half years, we are up to 48 and they are numbered
7 sequentially. There are a whole series. Very
8 frequently on any plan there are updatings made to the
9 technical plans, which are really the rules by which
10 the plant was run.

11 There have been many that have come to us,
12 obviously, through the normal course of events. Most
13 of them, however, are changes to reflect the difference
14 in status of the plant as an operating plant versus the
15 plant as a damaged reactor and in the process of
16 cleanup.

17 In fact, those most recent ones, 46, 47, and
18 48; 47 we have acted on and 46 and 48 are in-house now.
19 They take into account there are certain surveillance
20 items, namely, testing of pumps and valves and things,
21 that can't be performed. But regulation requires they
22 be performed. They can't be performed because they are
23 in radiation areas and they don't need to be exercised
24 because they are not needed for the safety of the
25 plant.

1 And we review and concur on those issues and
2 will change their technical specifications accordingly.
3 So that is the nature. There are really, I don't
4 think, any big issues in those items.

5 MR. SMITHGALL: I guess the wording of the
6 request from GPU is what caught my eye more than
7 anything else, which they were justifying the deletion
8 of the PEIS from (inaudible) as it is defined in your
9 regulation.

10 MR. SNYDER: The PEIS?

11 MR. SMITHGALL: Maybe I am making a point
12 here that is really insignificant, but that is what
13 caught my eye. As far as the PEIS being a document
14 against which the NRC reviews safety evaluation
15 reports, technical evaluation reports, and system
16 descriptions.

17 MR. SNYDER: Could I see that?

18 MR. SMITHGALL: Sure.

19 (Handing.)

20 THE CHAIRMAN: We got this package of
21 information yesterday.

22 MR. SNYDER: I would be honest. This one,
23 although it is dated April 12, it is still under review
24 in my office. And I frankly have not personally
25 reviewed this. I would obviously review it before we

1 took any action on it.

2 So you have raised a good point. We will
3 take a look into it. Without going through it all here
4 in detail, I am not sure of the significance of this
5 change, but we will certainly look at it.

6 MR. SMITHGALL: I guess I will go down to
7 some of the things we have discussed which we talked
8 about in Lancaster where you did approve the technical
9 specifications with the boron concentration, for
10 example, and heavy load travel.

11 I guess the upshot of my question is it might
12 be important for us to know what you would consider
13 major or significant to our Panel, technical
14 specifications that they are proposing to change and
15 those you have changed. And it might be of interest to
16 this Panel if we could have input as they are being
17 proposed.

18 I know they come through in this manner. But
19 one of the things I found is we get the packet of
20 information with the request and the approval in the
21 same packet of information.

22 MR. SNYDER: Not on tech spec changes. They
23 normally take a month or more typically two months.

24 On some of the safety evaluations that we do
25 on cleanup activities themselves, like the list that I

1 read to you at the beginning of my discussion here,
2 those are sometimes acted on fairly quickly, yes, so as
3 not to hold cleanup up.

4 MR. SMITHGALL: That is the upstart of my
5 question.

6 MR. SNYDER: I would say as a general
7 statement, the tech spec changes will, in many cases,
8 implement approval in principle what we have given in
9 another piece of paper. That catches the big ones.
10 Many of the tech spec change items are very small
11 details, truly of a housekeeping nature.

12 MR. COCHRAN: Some of these changes, at least
13 the request, the request to be exempt from regulatory
14 requirements like NCFR 70.53, that might be tech spec,
15 but that is an exception from regulation as opposed
16 to --

17 MR. SNYDER: That is true. That one is under
18 review.

19 MR. COCHRAN: Don't you require public notice
20 and so forth on a case like that?

21 MR. SNYDER: I don't believe so for
22 exemptions. But I am not authorized to grant
23 exceptions.

24 MR. COCHRAN: Who is?

25 MR. SNYDER: Office directors only. Denton

1 and that level are authorized to grant exemptions to
2 the regulations.

3 MR. COCHRAN: I guess this one interested me
4 on being exempt from the requirements to inventory
5 materials. It might be stolen or lost or whatever,
6 plutonium and the like.

7 MR. SNYDER: I think you will agree under our
8 regulations, the regulations require a certain set of
9 safeguards only if the material is less than 100 hour
10 per hour and three feet. And this is a lot less.

11 MR. COCHRAN: So you are suggesting that none
12 of these regulations are required to be met because it
13 is already radiated material?

14 MR. SNYDER: That is part of the question.
15 But the issue on the proposal that GPU has made for an
16 exemption request, which is under active review by the
17 NRC, but their proposal is based on the impossibility
18 of doing a detailed gram accounting of the fuel. If
19 you have read the proposal, that is the origin of it.

20 MR. COCHRAN: Before this proposal is
21 granted, could we spend more time on this issue?

22 MR. SNYDER: Sure.

23 MR. COCHRAN: I would like to do that.

24 MR. SMITHGALL: During the plenum lift I am
25 sure there will be concern from persons in the public

1 tonight, and perhaps they can come answer those, but
2 there was continuous venting during the plenum removal.

3 And I was wondering if you could share if
4 there was any release and what the content might have
5 been?

6 MR. SNYDER: I am not aware of any releases.
7 The monitoring indicating no abnormal releases. There
8 was continuous monitoring in the stack. And it is my
9 understanding and maybe Bill Travers can look at that.

10 But it is our understanding there was no
11 increase in that.

12 MR. TRAVERS: We did have inspectors
13 monitoring. And as Bernie stated, there was no
14 increase.

15 MR. SMITHGALL: Anything unusual within the
16 containment building?

17 MR. TRAVERS: As the plenum was lifted, there
18 was an increase radiation levels, but they were less
19 than conservative estimates. I am talking about the
20 direct radiation readings in the air.

21 MR. COCHRAN: How about the stack?

22 MR. TRAVERS: About a curie a day krypton.
23 But there were some estimates and increased radiation
24 of the direct kind as opposed to airborne. I believe
25 the people in the building were exposed to 30 mr per

1 hour, which is pretty low.

2 THE CHAIRMAN: Any other questions or
3 comments?

4 MR. ROTH: In part of the document that we
5 received was a violation of the Section 48503 where a
6 Notice of Violation associated with Section 48503 was
7 issued March 6, 1985, identifying three items of
8 noncompliance.

9 One question I would like to ask is basically
10 you said they have been categorized on a Severity Level
11 3. Now would you refresh my memory, and perhaps other
12 people's, on the increments there?

13 MR. SNYDER: Severity Level 1 is the highest,
14 Level 5 is the lowest.

15 MR. ROTH: What is the worst?

16 MR. SNYDER: One.

17 MR. ROTH: So three is?

18 MR. SNYDER: In the middle. There is
19 discretion at the three level whether civil penalty is
20 imposed.

21 MR. ROTH: Is there a civil penalty on this?

22 MR. TRAVERS: There is no civil penalty.

23 MR. SNYDER: There was no civil penalty. And
24 I believe the Notice of Violation probably says that.
25 It came from our regional office in the Philadelphia

1 area.

2 MR. ROTH: There were a couple of things that
3 GPU said in their response to the violation. And I
4 would like to get your feeling on how you felt about
5 that.

6 They specified there has been a reduced
7 sensitivity and awareness to special considerations
8 involving protection for high energy beta radiation. I
9 guess what caught my eye was the use of the term
10 "reduced sensitivity and awareness" and how you felt.

11 Is this a viable answer and satisfactory
12 answer as far as you were concerned?

13 MR. SNYDER: Well, as far as our review of
14 the incident that caused this Notice of Violation, that
15 is an accurate statement on their part in that the
16 reason that the skin contaminations occurred were
17 because of the lack of appreciation on the part of the
18 individuals involved. And GPU did take prompt
19 corrective action in that case.

20 And for that reason, I think the reasons we
21 did not issue a civil penalty are stated there. But I
22 believe that was certainly one of them.

23 MR. ROTH: I guess to a certain extent I
24 don't know whether GPU should be congratulated on their
25 answer or what, but I believe there were some keywords

1 or catch words or emotional words that sort of hit me.

2 And basically it boils down to the fact that
3 I was quoted (inaudible) even though these individuals
4 have been briefed on the hazards of beta radiation,
5 they have had little opportunity to gain practical
6 experience in working in areas of high energy beta
7 radiation sources.

8 After having been told how things are so
9 good, here is an admittance saying it really hasn't
10 been as great as we said it was. That is what I am
11 seeing here.

12 MR. TRAVERS: In this case there clearly was
13 a problem. And in evaluating it, we tended to agree
14 that the people involved were the biggest part of that
15 problem. In weighing whether or not a civil penalty
16 ought to be imposed we didn't just look at the
17 language.

18 We did a detailed look at the kinds of things
19 the licensee planned to implement so that those
20 situations would be avoided in the future. And our
21 decision was there was a bigger attempt on their part
22 to put into effect new controls or better controls that
23 that would preclude.

24 You never can entirely, but to the best of
25 their ability, preclude this kind of -- even

1 administrative -- that there wasn't an exposure in
2 excess of NRC limits, but there was an exposure in
3 excess of their administrative levels.

4 MR. ROTH: The next question I would raise
5 is, is there some way that you, your inspectors can
6 follow-up that what was said on paper is really going
7 to be done down there rather than have it occur again?

8 MR. TRAVERS: Sure. And we do that to the
9 extent we are able to. We have three radiation
10 specialists assigned to the office; but we are still
11 rather a small group of people. It is an audit
12 function, but it is probably a function that is more
13 comprehensive than any other site in the country.

14 MR. SNYDER: I think the short answer is
15 absolutely. Having a problem in this area, we are
16 following it up. We have a systematic approach and
17 appraisal of the licensee's conduct.

18 THE CHAIRMAN: You say you have three
19 individuals responsible for monitoring?

20 MR. TRAVERS: Three radiation specialist
21 inspectors.

22 THE CHAIRMAN: How does that compare to the
23 last several years?

24 MR. TRAVERS: It is the same number for the
25 last, I would say, three years.

1 THE CHAIRMAN: So you haven't seen any
2 cutbacks?

3 MR. TRAVERS: Right after the accident there
4 were many.

5 THE CHAIRMAN: But recently it is stable?

6 MR. TRAVERS: Yes.

7 MR. MASNIK: Earlier this week I called both
8 our Office of Investigation and Enforcement people and
9 asked them for an update on two issues.

10 One being the polar crane hand break
11 investigation being conducted by EIO and the other
12 being the enforcement action relative to the issue of
13 harassment.

14 I was informed by OI that essentially the
15 people work of the investigation has been completed
16 with the exception of one or two interviews. They will
17 begin the review of the transcripts and analysis and
18 writing the report.

19 I was told that they would be completed
20 within a couple of months. So their moving wasn't as
21 optimistic as was told to us several months ago.

22 As far as the enforcement action, I was
23 informed that the staff has completed the document
24 which is the Notice of Violation, and that it has been
25 sent for management review. This is upper management.

1 And from this last review, it was sent to the
2 Commission.

3 The Commission has some period of time to
4 review this document. And again we hope we are within
5 probably a month of having a completed enforcement
6 action in this issue.

7 THE CHAIRMAN: Any questions?

8 (No response.)

9 THE CHAIRMAN: Item 3 is DOE status report
10 and discussion of shipping cask availability during
11 defueling.

12 MR. BIXBY: As the panel is aware, in March
13 of 1984 the department signed a contract with GPU to
14 retire the TMI-2 core for research and disposition.
15 That contract specifies that DOE was to provide the
16 ampacured (phonetic) and radiation services with
17 shipping. Mr. Harold Berton was involved with the
18 procurement of the cask. And for the next well 20
19 minutes we will use visual aids and answer any
20 questions after that.

21 MR. BERTON: In March 1984 they signed a
22 contract with GPU for research and development
23 purposes. The first thing I would like to tell the
24 panel is we at EG&G are eager to receive the core. It
25 is the key to our research and development program. We

1 feel it is extremely important to understanding the
2 consequences of the TMI-2 accident. And you will note
3 we have done quite a bit of work on the accident
4 consequences.

5 To get to the specifications about the
6 shipping casks, in August of 1984 EG&G signed a
7 contract with Nuclear Packaging Incorporated to provide
8 two fuel shipping casks for the DOE obligated
9 activities. In January of 1985 we completed a
10 preliminary design on those casks. By March of 1985 we
11 had completed fabrication of a quarter scale mock-up of
12 the cask, which is exactly quarter scale of every
13 feature within the cask, including seals, lids, and all
14 other features which are important to cask performance.

15 Sitting in front of you you see a 1/10 scale
16 model, which is made of plastic. It is not quite as
17 rugged as the quarter scale model because it already
18 has several chips in it from assembly and disassembly.

19 I would like to show you more, but I would
20 like to point out earlier this month we completed at
21 Sandy and National Laboratories a series of tests on
22 the performance of the quarter scale test model. The
23 video will show you some short parts of those series.

24 Don't be alarmed by what you see in the
25 video. Some of the tests were performed at minus 25

1 degrees Fahrenheit. So what is falling off of the cask
2 is ice and it is not radiation. There was no radiation
3 material in the cask. These were simulations. There
4 are simulated canisters within the cask and other
5 features are analyzed.

6 After you see the film, if you have any
7 questions Dr. Bixby and I will answer those. And if
8 you wish, we can disassemble the tenth scale model and
9 Mr. Jeff Quinn, who parks his car in the wrong places
10 sometimes, can disassemble the cask, and we can show
11 you the main features of that unit.

12 So with that, if I can figure out how to turn
13 on the video machine. The figures are interesting, but
14 you have to listen to the words because the words
15 really describe the features of the cask. I know it
16 may be difficult to follow.

17 (Presentation of film.)

18 MR. COCHRAN: Have there ever been any
19 incidences where workers have failed to properly
20 enclose one of those canisters prior to shipping?

21 MR. BERTON: It is a tough question to answer
22 because I would have to know what all workers have done
23 on casks before. Let me comment on what we plan to do.

24 MR. COCHRAN: That is not what I want.

25 MR. BERTON: As you noted, there are two lids

1 on this cask. Each lid has double O ring seats. They
2 have the capability of testing each time you load it.
3 And we will test it by vacating the section between the
4 two seals and doing helium leak tests on the vacated
5 area.

6 So we will test those seals and ensure
7 integrity --

8 MR. COCHRAN: I don't want to you repeat the
9 film. Have you ever done a study of accident
10 incidences involving shipping casks of nuclear reactor
11 fuel? Have you ever researched this issue?

12 MR. BERTON: Yes.

13 MR. COCHRAN: And have there been any
14 incidences where workers failed to properly secure?

15 MR. BIXBY: Type B casks, I believe there
16 never have been any incidences.

17 MR. BERTON: The only fact that I know and
18 can quote from a report by Sandia National Laboratories
19 printed in January 1985 called consideration to the
20 safety of transporting fuel. And quoting from that
21 report, actually not exactly quoting, they basically
22 say there never has been a radioactive release in a
23 Type B shipment in the United States.

24 MR. COCHRAN: I realize you don't know the
25 answer to my question and that was not the question.

1 But if you discover such an incident in your
2 research, which I would hope you would go back and look
3 it up, would you get back to us if there has been such
4 an incident?

5 MR. BERTON: Yes.

6 THE CHAIRMAN: It really was a very
7 impressive film and we appreciate you bringing it here
8 today.

9 MR. BERTON: We are looking for volunteers to
10 go with each of the shipments.

11 (Laughter from audience.)

12 MR. COCHRAN: I understand that the fuel will
13 be researched. But what is the intended -- what is
14 intended in terms of the bulk of the fuel? Will it be
15 processed or stored?

16 MR. BERTON: It will be stored.

17 MR. BIXBY: These canisters will be available
18 to go to a depository.

19 MR. WARD: Do I understand it will take three
20 years to move all of the fuel?

21 MR. BIXBY: It is our current projection with
22 the two casks that we can ship the fuel in 23 months.
23 There is capacity in the spent fuel pool to house the
24 canisters should there be delay.

25 MR. ROBINSON: Did I miss the radiation level

1 at the outside of the cask?

2 MR. BERTON: It is 10 m, 2 meters.

3 THE CHAIRMAN: Any other questions?

4 (No response.)

5 THE CHAIRMAN: Maybe if there are people
6 during the break who are interested in seeing it
7 disassembled, I am sure there will be time.

8 Now, the last item before the break is
9 public comment. We do have two periods for this, so I
10 ask you to try and be specific on any question or
11 comment.

12 This is an opportunity for those people who
13 sometimes have problems staying to the end for them to
14 express viewpoints now. So if you would like to,
15 please raise your hand.

16 MS. KINNEY: Paula Kinney. I wrote my
17 question on a piece of paper because I want to keep it
18 focused into one thing. I have a question or perhaps a
19 suggestion for GPU concerning the full page ad that was
20 addressing Mr. Chairman.

21 Since there was so much confusion that you
22 didn't receive the letter and, et cetera, et cetera,
23 that since GPU apologized and they are so sorry about
24 all the confusion, that perhaps had they considered
25 running a full page ad of explanation or perhaps an

1 apology rather than just, Oops we are sorry, but that
2 is the way it goes? Who do I address this to? How
3 about Mr. Bedell?

4 THE CHAIRMAN: If anybody from GPU would like
5 to respond to that? I didn't hear them say they had
6 any interest in doing such a thing.

7 MS. KINNEY: I didn't either, but I am
8 wondering how sorry they really were.

9 THE CHAIRMAN: Does anyone from GPU want to
10 respond?

11 (No response.)

12 MS. LEE: Jane Lee. Members of the Board, I
13 just wanted to make one brief observation. I saw the
14 ad in the paper today and my immediate reaction was,
15 Surely the Advisory Panel did not do this. That was my
16 immediate reaction and I want to thank you for
17 solidifying my trust in you.

18 I would like to pose a question to this Board
19 and to GPU. Supposing I would decide that I wanted to
20 write an ad in the paper of that size, and that I
21 wanted to get my point across, and I wanted to make
22 sure that the public read it. Would it be right for me
23 to use this Advisory Panel? Would it be correct for me
24 to use the Commonwealth of Pennsylvania, Governor
25 Thornburgh to get my point across?

1 Unfortunately, we have been bombarded with
2 these ads in the paper at the expense of the rate
3 payers for the past six years. I can't help but think,
4 after 11 years of being involved in this business, how
5 really helpless the American people are against this
6 industry. And to add insult to injury, we have to pay
7 the bill. Thank you.

8 THE CHAIRMAN: Are there any other
9 individuals?

10 MR. COCHRAN: I would like to clarify one
11 thing. The ads specify that they are not charged to
12 the rate payer.

13 MS. KINNEY: That doesn't make it so. They
14 juggle the books.

15 MS. CORRADI: Joyce Corradi. I have some
16 real questions about the casks. One is, in
17 relationship to being transported by rail, I would like
18 to know, is there any intention or plans for it to be
19 tested once it is on the flatbed to be carried by rail?
20 I would like to know if routes have been planned; if
21 there will be special people and equipment that will
22 follow this?

23 THE CHAIRMAN: Is there anything else?

24 MS. CORRADI: No. Those are the only two I
25 have for now.

1 MR. BERTON: I will answer the part about the
2 testing. First off, as in all of our shipments, what
3 will be done is we have had an on-site inspector when
4 we took possession of material from GPU. And that is a
5 certified transportation specialist by the Department
6 of Energy. Each of the procedures is checked. The
7 safety of the shipment is checked against a safety
8 analysis report which is written and approved by the
9 Department of Energy.

10 And by the way, NRC on-site also does a
11 courtesy inspection for the Department of Energy before
12 releasing the shipment. And in addition, GPU does
13 their own inspection before even presenting the papers.

14 You might say on all outside shipments there
15 are three inspections done by three independent people
16 to make sure shipment is really ready to go.

17 In regards to notification and
18 transportation, the exact railways have not been
19 chosen. We are now negotiating with the railroads on
20 what path to take; and that will depend on the use of
21 the rail lines and our frequency of use and our needs.

22 They will be documented in the safety
23 analysis report which is reviewed and approved also by
24 the Department of Energy.

25 MS. CORRADI: Are you saying you haven't set

1 up a total time frame for this procedure yet?

2 MR. BERTON: No, because one of the things we
3 are doing is we are looking at whether or not to ship
4 two casks at a time with one train pulling the casks,
5 or to send a cask with each train. Because it makes a
6 lot of difference in our total time schedules.

7 MS. CORRADI: Does not the FCC have something
8 to do with the procedures -- I'm sorry ICF?

9 MR. BIXBY: The Department of Transportation.

10 MS. CORRADI: They have to be approved by
11 them also? So can you give me an idea of the time
12 frame before each of these procedures?

13 MR. BIXBY: We plan to do the same thing we
14 did as far as notifying the Middletown Police
15 Department and notifying the State to inform them when
16 each shipment was going to go. We plan to do the same
17 notifications on each of the shipments.

18 Because for the shipment we made (inaudible).

19 MS. CORRADI: There will be no special
20 personnel that will travel with it?

21 MR. BIXBY: We do not plan to have any
22 special provisions for people escorting these
23 particular shipments.

24 MS. CORRADI: You don't feel it would be
25 suspect to sabotage?

1 MR. COCHRAN: The 30 foot drop. The cask is
2 traveling at 30 miles an hour?

3 MR. BIXBY: On an unyielding surface. If you
4 compare that, it is about the equivalent of a truck
5 traveling 120 miles an hour and hitting a bridge
6 abutment one meter thick. In fact, if you -- back when
7 the design for these were set up, they took an obsolete
8 cask and dropped it from a plane onto the earth. That
9 cask sunk into the ground by 52 inches. And that
10 showed less damage than taking that same cask and
11 dropping it onto this unyielding surface.

12 MR. COCHRAN: To answer Miss Corradi's
13 question, would you be doing testing on a flatbed? The
14 only test I am aware of is the bridges test of shipping
15 casks where they had -- where they ran a locomotive
16 into the wall or whatever.

17 MR. BIXBY: I am not sure what the tests are
18 that Joyce may be referring to.

19 MS. CORRADI: I wasn't referring to any. I
20 was asking what had been done.

21 MR. BIXBY: I think Mr. Berton responded on
22 the tests that would be done to ensure the containment
23 integrity of those casks prior to departure.

24 I think the tests we are doing here right now
25 are designed to show, under the most severe

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ADVISORY PANEL FOR THE DECONTAMINATION
OF TMI-2

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1 THE CHAIRMAN: Good evening ladies and
2 gentlemen. I did hear from Tom Gerusky that he
3 couldn't be here tonight. There will be a meeting of
4 the panel, at least tentatively, set for June 20 and I
5 think it is tentatively set to start at 10:00 a.m. in
6 Washington with the Commission.

7 Since the last meeting, I received one piece
8 of correspondence. I am going to ask it to be included
9 in the minutes. That is a May 13 letter from GPU
10 regarding a request on May -- that involved maximum
11 internal dosage and radiation worker turnover. And
12 rather than read it, I ask it be recorded in today's
13 minutes.

14 The last thing I have as part of my
15 introductory remarks is to bring up, I guess ask the
16 question on the ad that appeared in some papers, and
17 particularly in the Washington Post. A letter that was
18 apparently sent to me by a Dr. James C. Fletcher who is
19 Chairman of the TMI Safety Board.

20 The ad basically runs a letter that indicates
21 that that letter came to me, or at least is dated April
22 26. Let me say at this point I have no recollection of
23 having ever received that letter. I was on vacation
24 and returned this past Tuesday after being out of town
25 for a week and a half.

1 My office had been contacted and was asked if
2 we wanted to receive a copy of the ad. We received the
3 copy May the 9th that we were told, I am told by my
4 office, was going to run. We were not asked whether we
5 were agreeable to have it run. We were told it was
6 going to run.

7 I found out immediately upon coming back and
8 reading my correspondence, that would have been
9 yesterday, and this thing ran the next day. I am going
10 to research my office again and ask if that letter ever
11 came in. It is bad enough that I don't recall seeing
12 the letter. But I think it is in very poor taste, in
13 the very least, that GPU would run an ad with a letter
14 that is addressed to me when the same letter went to
15 the NRC.

16 I don't know. I received no explanation of
17 it. At the very least it is poor taste and I resent
18 the way it took place.

19 I don't know if anyone here from GPU could
20 explain it or not, why you felt such a letter was
21 necessary. If information was necessary to get to the
22 public, why didn't you run the information and not the
23 letter that I didn't receive yet and you didn't talk to
24 me about?

25 MR. STANDERFER: I am sorry you didn't get

1 the letter. I am sure it was sent. We tried to
2 coordinate with your office in the intent to use that
3 in advertisements. And if that discussion with your
4 office didn't consummate with you, I am sorry.

5 THE CHAIRMAN: I asked the question of my
6 staff, Were we asked whether we were agreeable to a
7 letter being run? And I was specifically told, no,
8 that we were told that this ad was going to run and
9 would we like a copy of the ad. The answer was, yes,
10 we would like a copy of the ad, which was read last
11 night at about 10:30 by me. The ad was read; the
12 letter was not read or received as far as I know.

13 MR. STANDERFER: Our intention was to be sure
14 that you would get that in plenty of time. And it was
15 our intention that, if there was some objection on your
16 part, that you would have time to register that with
17 us. If we didn't finish that discussion, I am sorry.

18 THE CHAIRMAN: Could you explain to me why it
19 was necessary to have a letter that was addressed to me
20 as chairman as the basis for an advertisement by GPU?

21 I just feel somewhat used in this.

22 MR. STANDERFER: I am responsible for cleanup
23 and not responsible for the public affairs activities.
24 They are under another vice-president.

25 But I think we feel that endorsement of the

1 work on the project is important to indicate that the
2 project is being done well.

3 THE CHAIRMAN: I have one other question at
4 this point and that is, it is my understanding that a
5 letter was sent to NRC first, addressed to them, the
6 same letter.

7 MR. STANDERFER: I don't believe so. I
8 believe they have a copy of the letter that was sent to
9 you; but we have not sent that letter to anybody else.

10 THE CHAIRMAN: Maybe Mike can speak to that,
11 if you would. It was my understanding there was a
12 similar letter sent to the NRC that you were asked to
13 copy and send to the panel. Because of reasons that
14 you have, you didn't feel that was appropriate.

15 MR. MASNIK: I have a letter that was
16 attached. In other words, the statement was sent to
17 Mr. Denton under Mr. Clark's signature dated May 8.

18 And then attached to that in the concluding
19 paragraph they state that a letter was also sent to
20 Mayor Morris, and a copy of that letter is attached for
21 your information.

22 Now, whether it tracks the newspaper article
23 verbatim, I did not check that.

24 THE CHAIRMAN: I thought you mentioned to me
25 that you had received information, the same kind of

1 information, "you" being the NRC, and asked to provide
2 copies of that to panel members; but you felt that was
3 not something the NRC should be doing and that led to
4 the letter.

5 MR. MASNIK: I received a copy of this letter
6 with a cover letter from a member of GPU Public Affairs
7 with the note on it saying that this may be of interest
8 to the Panel and would I distribute it. Something to
9 that effect.

10 And I called the individual and said I am
11 responsible for screening all of the information; and
12 we generally provide them with technical information.
13 And this particular document, I felt, didn't fall under
14 the category of the normal distribution to the Panel.

15 I said, however, if you feel this is
16 information that the panel should receive, there would
17 be no reason why you couldn't send it directly to the
18 chairman of the Panel with a request that it be
19 distributed to the Panel.

20 THE CHAIRMAN: But are you saying the first
21 information you got about distributing that was when?

22 MR. MASNIK: In May, the beginning of May.
23 Now, also at the same time I got the normal
24 distribution through the NRC internal system of the
25 letter that was sent to Mr. Denton, which had the copy

1 or had attached a copy of the letter to you.

2 THE CHAIRMAN: Well, I am glad you received
3 your copy of my letter. That's nice. Tom, did you have
4 something?

5 I want everybody to see I am not talking
6 about a little ad. This is a Washington Post ad. I am
7 sure it appeared in other newspapers. I think maybe the
8 Lancaster newspapers, although I haven't seen it. I
9 haven't had a chance to see it in the Lancaster
10 newspaper. They could afford to pay for several weeks
11 of the ad in the Lancaster paper.

12 MR. SMITHGALL: We spent a meeting in
13 Lancaster listening to your problems with the
14 Philadelphia Inquirer article about you and the
15 implication of problems you had with that.

16 Yet another month later you run an ad where
17 you imply by the heading of our chair here and of an
18 advisory member to the Nuclear Regulatory Commission
19 that they were in full compliance with the whole
20 cleanup effort. And I think that is the problem, if I
21 can read through this.

22 On the one hand you spent a whole meeting and
23 on the next hand you are running an ad that does the
24 same thing. That is my particular problem.

25 I think it would bear getting approval of the

1 Panel before you run a letter in an advertisement form.

2 MR. STANDERFER: I thought we had; and my
3 understanding and intent was to try and get that
4 discussion. To the extent that didn't happen, I
5 apologize.

6 THE CHAIRMAN: You may check on that, but I
7 was very clear in asking whether we were asked for
8 approval or whether we were told it was going to
9 happen. And we were told it was going to happen and
10 that is my understanding.

11 MR. STANDERFER: I believe George McKelvy
12 from our public staff is here and he is the gentleman
13 who had the discussion with your office. If you would
14 like to ask him the question directly.

15 THE CHAIRMAN: I would be happy to. Because
16 the copy that my office received was received on May 9.
17 It was sent out May 8 and a copy was sent by George
18 McKelvy. And if George is present, I would like to
19 hear what was said.

20 MR. MC KELVY: George McKelvy, manager of
21 Public Affairs at TMI. With respect to the ad, I
22 called the Mayor's office on the 6th of May and I
23 believe he was out of town at the time.

24 I told the staff member I spoke with there
25 was an ad we were composing to run. And after that

1 conversation, I indicated it was a proposal. I sent a
2 copy of the ad in draft form to the Mayor's to the
3 attention of that staff person. That is what
4 transpired.

5 THE CHAIRMAN: For review and comment prior
6 to running?

7 MR. MC KELVY: That was the understanding.
8 Obviously, it was not explicit enough.

9 THE CHAIRMAN: Did you get any comment from
10 my office?

11 MR. MC KELVY: No, I did not.

12 THE CHAIRMAN: I was out of town from the 4th
13 of May until the 14th of May, and this ran May 16.

14 You can see the great opportunity I have had
15 to comment on it. I read this ad last night between
16 ten and eleven o'clock at night. And I would expect,
17 if you send a draft of a proposed release for comment,
18 that you would wait until you got the comment, if that
19 was your intent.

20 My office said you told them it was going to
21 run and you asked if they would like a copy of it and
22 we said yes. I will double check.

23 But I am very upset with the way it was
24 handled. And nothing you said here tonight changed my
25 mind on that. I don't think you were very specific.

1 And I think if you were really interested in getting
2 comment, you make sure when you are going to run a
3 letter to somebody and do it to this size in the
4 Washington Post and you intended to get comment, you
5 certainly make sure you got the comment before
6 proceeding. And you didn't get anything from me.

7 MR. MC KELVY: No, we didn't.

8 MR. COCHRAN: Mr. McKelvy, do you attend the
9 meetings of your Safety Advisory Board?

10 MR. MC KELVY: No.

11 MR. COCHRAN: Do you?

12 MR. STANDERFER: Yes, I do. In fact, the
13 Safety Advisory Board attended your meeting in
14 Lancaster last month.

15 MR. COCHRAN: Do you recall the discussions
16 in the meeting where they drafted the language that
17 went into the letter? What was their purpose in
18 drafting that language?

19 MR. STANDERFER: They attended the meeting in
20 Lancaster. The following day in the wrapup, they chose
21 to provide us that language.

22 I don't know the basis for that other than
23 they felt it was appropriate after hearing the
24 discussions the night before. I can arrange to have
25 Dr. Fletcher attend your next meeting, and he could

1 speak to that.

2 MR. COCHRAN: Was the language requested by
3 the Board or other GPU people?

4 MR. STANDERFER: The language was not
5 requested. It was voluntarily offered by the Safety
6 Advisory Board after attending your last meeting in
7 Lancaster. Whether it was prompted by your meeting, I
8 don't know.

9 MR. COCHRAN: To the best of your knowledge
10 it was not prompted by any member of GPU?

11 MR. STANDERFER: That is correct. And I
12 would be glad to arrange to have Dr. Fletcher speak to
13 that point.

14 MR. COCHRAN: Are the meetings of that board
15 transcribed?

16 MR. STANDERFER: There is a report of each
17 meeting, but no transcript. It is basically a
18 technical review meeting where we make technical
19 presentations to them and they then give us advice.

20 MR. COCHRAN: But there are minutes of those
21 meetings?

22 MR. STANDERFER: Yes.

23 MR. COCHRAN: Can we get the minutes of those
24 meetings?

25 MR. STANDERFER: I don't see why not.

1 MR. COCHRAN: When was a decision by GPU made
2 to publicize the letter that was -- that Dr. Fletcher
3 wrote to Mayor Morris?

4 MR. MC KELVY: I don't know when that
5 decision was made.

6 MR. COCHRAN: Do you know when you were first
7 aware of that decision?

8 MR. MC KELVY: I was aware there was a
9 proposal to have such an ad on the 6th of May when I
10 contacted the Mayor's office.

11 MR. COCHRAN: But you weren't involved in the
12 discussion?

13 MR. MCKELVY: The next thing I knew about the
14 ad was today.

15 MR. COCHRAN: Were you involved in previous
16 ads that addressed the Lancaster articles in the Kelly
17 decision?

18 MR. STANDERFER: What matter are you talking
19 about?

20 MR. COCHRAN: Another one of those "We
21 thought you should know" ads.

22 THE CHAIRMAN: It was the Philadelphia
23 Inquirer article.

24 MR. COCHRAN: It was quoted from U. S.
25 District Justice Kelly's decision.

1 MR. STANDERFER: In Kansas?

2 MR. COCHRAN: The question was, I believe, of
3 Mr. McKelvy whether he was involved in that ad as well?

4 MR. MC KELVY: I was aware there were a
5 series of you ought to know ads in preparation, but I
6 couldn't distinguish the ad you are referring to.

7 MR. COCHRAN: Who in GPU would be responsible
8 for reviewing the technical content of that ad?

9 MR. MC KELVY: The principal responsibility
10 for advertising rests with our Vice-President of
11 Communications. There are a number of individuals
12 within the company who review the copy of proposed
13 advertisements.

14 MR. COCHRAN: In the previous ad that GPU put
15 out on the newspaper articles, it quotes the Kelly
16 decision, which states in part in the ad, "This Court
17 rejects the opinion and testimony of Dr. Morgan and Dr.
18 Gofman because they both evidenced an intellectual
19 dishonest invention of arguments to protect their
20 opinions."

21 I was wondering if that statement of Kelly
22 with regard specifically to Dr. Morgan is shared by GPU
23 and if it is shared by you? You certainly know Dr.
24 Morgan.

25 MR. STANDERFER: Yes, and I read the full

1 text of Judge Kelly's view. And, in fact, I have not
2 read that ad you are talking about, but I read the text
3 of the Court.

4 MR. COCHRAN: Do you share the Court's
5 opinion of Dr. Morgan?

6 MR. STANDERFER: I did not attend any of the
7 court sessions and I am unfamiliar with the testimony.
8 And I am not qualified to comment on what was said in
9 that court proceeding.

10 MR. COCHRAN: Well, I have read the opinion,
11 too. And I have also noticed a number of technical
12 errors made by Judge Kelly in his opinion having quoted
13 the briefs of the Justice Department and surely you
14 must have picked up some of the errors.

15 MR. STANDERFER: I have seen errors on both
16 sides.

17 MR. COCHRAN: I also recognize that it has
18 been usually two doctors (inaudible) who are on your
19 Advisory Board were also witnesses on behalf of the
20 Government in that case and the Judge has high praise
21 for them and low esteem for Dr. Morgan.

22 MR. STANDERFER: I can't speak as to whether
23 they testified or not. I just read the text of the
24 Judge's statement.

25 THE CHAIRMAN: I must jump in only on this

1 issue. There is an item on the agenda, Item 8, which
2 is a wrap up of the whole discussion on the
3 Philadelphia Inquirer article.

4 I am getting some looks from panel members
5 that are suggesting maybe we are missing the agenda by
6 getting into that now.

7 MR. COCHRAN: Can I finish my point?

8 THE CHAIRMAN: Sure. Let me before you
9 begin, I got a note that says Barbara or Jeffrey Quinn,
10 who are apparently in attendance here, are told they
11 have a car that is blocking the driveway in the front
12 of the building.

13 MR. COCHRAN: I think Judge Kelly's remarks
14 about Dr. Morgan were uncalled for, even if you just
15 read his opinion.

16 The question I ask GPU is whether, before you
17 repeat such statements as in these public
18 advertisements as inferring that this is an accurate
19 description of Dr. Morgan, whether there is any effort
20 on the part of the Public Affairs' people who are
21 responsible for the writing of these articles
22 presumably to see whether the statements like these are
23 statements that represent GPU's views, or are they --

24 MR. STANDERFER: All I can say is, I believe
25 we quoted the Judge accurately.

1 MR. COCHRAN: I agree with that. But do you
2 stand behind the opinions, does GPU stand behind the
3 opinions of the Judge with respect to Dr. Morgan?
4 Basically you are running the guy into the ground. Do
5 you stand behind that opinion?

6 MR. STANDERFER: We believe we quoted the
7 Judge accurately.

8 MR. COCHRAN: I heard that. Now, will you
9 answer the question?

10 THE CHAIRMAN: I must at this time --

11 MR. COCHRAN: I would like an answer to the
12 question.

13 THE CHAIRMAN: I will ask him one more time.
14 If he chooses not to answer the question, I think that
15 is it. He has replied twice.

16 MR. STANDERFER: Our Public Affairs office
17 would like to answer the question.

18 THE CHAIRMAN: I would only like to spend
19 time to answer the question, then I would like to get
20 back to the rest of the agenda. Neal?

21 MR. WARD: I would like --

22 MR. COCHRAN: I would like to get an answer
23 first.

24 MR. WARD: This is not a Parlimentary
25 procedure that allows you to block all discussion.

1 This ad in response to the ad in the Inquirer
2 was fully discussed at a whole long session in
3 Lancaster. If a member of the committee wasn't there
4 to discuss it, do we all have to go back to the last
5 meeting?

6 THE CHAIRMAN: We do when we get down to Item
7 8, because that is a wrapup discussion. But right now
8 we should not be doing this.

9 I would, however, since we have gone through
10 ten minutes, we will at least ask GPU to answer the
11 question. I will give Tom Cochran a chance later on.

12 MR. BEDELL: I was involved in the
13 preparation of the Inquirer ad.

14 The purpose of running that particular point
15 in the ad was to address the fact that the Inquirer in
16 its series had virtually dismissed entirely the
17 consensus view on radiation standards and health
18 effects as represented in the Federal regulations
19 governing those fields.

20 The point we were making in citing Judge
21 Kelly's opinion was, as we said, that the opinions
22 reported by the Inquirer were on the fringe of opinion,
23 did not represent the consensus views on the matter of
24 health effects and worker standards.

25 In running that decision we were not second

1 guessing the Court. I am sure this committee would not
2 want us to second guess the Court. We had simply
3 quoted the findings of a Federal judge who held
4 extensive proceedings and reached his own conclusions.

5 They were conclusions in this matter that
6 happened to coincide with our conclusions that the
7 opinions cited in the Inquirer were on the fringe of
8 the matter and were not the consensus opinion on the
9 health effects standards that we follow.

10 THE CHAIRMAN: You are really not answering
11 the question. The question is --

12 MR. DI NUNNO: He answered it by saying he is
13 not competent to answer the question.

14 THE CHAIRMAN: That is all I want him to say.

15 MR. DI NUNNO: He said it twice. We are
16 badgering the guy. He said it twice if you look in the
17 record, he is not competent to answer the question. He
18 has not looked at the individual testimony. What more
19 can the man do?

20 THE CHAIRMAN: Joe, you have had your say,
21 and I am going to rule you out of order at this point.

22 I am saying, from my standpoint, that the
23 question that was asked has not been answered in the
24 manner I expect it to be. However, it has been
25 answered in the way you want it, and that is fine. I

1 understand that. You don't feel competent in going
2 beyond that. That is all you had to say and you have
3 answered it.

4 Does anybody have any comment on what my
5 opening comments were?

6 MR. COCHRAN: I would like to return to this
7 issue later.

8 THE CHAIRMAN: Fine.

9 MR. ROTH: The only statement I would like to
10 make at this point, and it is really not directed to
11 Frank or Doug, is the fact that I join the Chairman in
12 his displeasure of it. But even more so because I
13 question just how involved Dr. Fletcher really is in
14 the whole process.

15 And the reason I say that is at a meeting in
16 Washington D. C. where Dr. Fletcher and some other
17 members of your Advisory Board were there. Dr.
18 Fletcher in a statement to the Commission said, and I
19 am paraphrasing it, the fact that one of the things
20 that pleased them is the fact that the investigation
21 into the whistle blowers allegations were
22 unsubstantiated, completely wiping out the entire issue
23 in a false way. And he did make that statement.

24 And at a meeting after that I was the one,
25 and some other people who pointed out to the Commission

1 that certainly was an error. And they did agree.

2 So all I am saying at this point is that the
3 chairman of your Safety Advisory Board can go before
4 the Commission and make such an absolutely ridiculous
5 statement like that without having somebody point out
6 the facts to him, I have to question the validity of
7 his involvement at this point in a letter, for \$15,000
8 or \$20,000 a Washington Post full page ad.

9 MR. STANDERFER: Dr. Fletcher made a
10 statement on November 7 with the NRC Commission. I was
11 present. I do not recall what he said on that point.

12 Again, if you would like, I believe I can
13 arrange for him to be in attendance at your next
14 meeting to answer questions to that.

15 THE CHAIRMAN: Maybe that will be appropriate
16 in regard to that.

17 MR. STANDERFER: And the Safety Advisory
18 Board does meet every two months and goes thoroughly
19 into all phases of the project. So they are thoroughly
20 familiar with the activities of the work.

21 MR. SMITHGALL: I would just like to get back
22 to the intent of what Art started with here.

23 I want to know your feelings as to the
24 appropriateness of running the ad the way you did with
25 the heading of our chair and the implication of our

1 Panel, the Advisory Panel, to the statements that are
2 in the letter. That is what I am concerned about.

3 MR. BEDELL: There was no implication in the
4 fact the letter was addressed to the Chairman of this
5 panel. One of the functions of this Panel is to serve
6 as conduit of information to the public. The public
7 has been quite concerned. And one of the reasons it is
8 concerned is the Inquirer series. They are concerned
9 in the way the cleanup is being conducted.

10 The Advisory Panel that we put together to
11 advise us of the safety of the cleanup is made up of
12 some of the most eminent people in this field. They do
13 not lightly put their names to a letter of that sort.
14 If they have reached that conclusion, we think it is
15 important that people of this area who are concerned
16 about the safety of the cleanup know what they have
17 concluded.

18 We were very pleased, and apparently the
19 discussion at the last meeting of this Panel on the
20 series had some motivating influence.

21 MR. SMITHGALL: I understand your reasons for
22 promoting what is in the text.

23 MR. BEDELL: If Mayor Morris was not the
24 chairman of the Panel, somebody else would be. The
25 letter needs to be addressed to this Panel.

1 MR. SMITHGALL: In an advertisement?

2 MR. BEDELL: The purpose of the advertisement
3 was to allow the people of this region to read the
4 letter. They don't have that opportunity through any
5 other means.

6 That is also the reason we had to run the ad
7 to respond to the Inquirer. They do not have the
8 opportunity to hear from us in any other means in
9 detail.

10 It is very unfortunate that we have to spend
11 the monies that was necessary to be heard. But we feel
12 we need to be heard. And the people of this region
13 have a right to hear from us.

14 THE CHAIRMAN: I guess in your opinion, in
15 anybody else's opinion, it is certainly your right to
16 have your wording, to get some comment from this group.
17 And that is your right to run that.

18 I resent the manner in which you indicate
19 that the letter with my heading was important when this
20 Panel as a group had never even received the letter.
21 And I as an individual certainly question ever
22 receiving it. I didn't even have a chance to be
23 contacted on it. And that bothers me.

24 And why you felt it was necessary to have my
25 name as the chairman of the citizens group, and the

1 fact the citizen's group has not had a chance to even
2 discuss the letter. The implication to the public is
3 that this comes from the Citizen's Panel Chair. They
4 received this and it has been fully aired and they are
5 running it.

6 MR. BEDELL: I am not aware of what happened
7 in terms of the mailing of the letter and why you
8 didn't actually get the letter. You were, however,
9 advised and your staff was advised that we were
10 proposing to run an ad on that matter.

11 Now, it seems to me the essential fact is the
12 content of that letter. It is not whether the Advisory
13 Panel had discussed it, has an opinion on it, reviewed
14 it, endorses it, rejects it, or anything.

15 The fact of the matter is the Advisory Panel
16 was set up to receive information that is important to
17 the cleanup and that the public needs to know. We sent
18 the letter to the Advisory Panel, and we also made it
19 public in the form of an advertisement. Because that
20 is the only way the letter would have been used in
21 detail.

22 Now, if you are in business, and I think that
23 is why you are all here and I honor you for it, to
24 provide the public with information on the cleanup of
25 TMI Unit 2, this is information on the cleanup of TMI-2

1 that was submitted to your committee and would not have
2 reached the public in any other means if we had not run
3 the advertisement.

4 We feel it is important in light of what the
5 public has been hearing about the cleanup, principally
6 through the Inquirer series, that that kind of
7 statement be made available to them. And I don't think
8 the fact that the letter has a salutation in any way
9 implies endorsement of that letter by the person named
10 in that salutation.

11 THE CHAIRMAN: It may not. Your very
12 statements here shows the arrogance with which you
13 conduct this kind of attitude. That is what I resent.
14 It is not you right to do it, it is the arrogance with
15 it.

16 I feel I was set up by this. And when you
17 talk about being business people, good business people
18 if they were going to do this type of thing and they
19 wanted input from the person who received the letter,
20 would have taken the time to give that person an
21 opportunity to comment. If that was really what was
22 sought, good business practice would ask for that. And
23 you did not display that.

24 I am not going to say more than on this
25 because I am really upset with it; but you did not

1 display good business practice. It is not necessarily
2 what the implications are; it is just the arrogance
3 that is constantly displayed in this kind of public
4 statement. And I really resent it.

5 MR. COCHRAN: The implications in your
6 remarks were that the comments in Dr. Fletcher's letter
7 could only serve a useful purpose if they were relayed
8 to the public. And that to me implies that the
9 objective by Dr. Fletcher and company in writing the
10 letter was not to inform this panel, but was to make a
11 public statement.

12 And they decided to do so to use the vehicle
13 of a letter to Mayor Morris as a means of setting up an
14 ad, or some means of getting that information out.

15 Now, I don't know whether that is the case.
16 But that certainly is the implication.

17 MR. STANDERFER: We can have Dr. Fletcher
18 discuss his intentions. I think the statement resulted
19 from attendance of the last meeting of this panel. And
20 it was addressed to this panel.

21 THE CHAIRMAN: We may want to take him up on
22 that. Any other comments from the panel at this point?

23 (No response.)

24 THE CHAIRMAN: We would go on to the NRC
25 status report and an update on NRC pending

1 investigations and enforcement actions. Bernie Snyder
2 will address this.

3 MR. SNYDER: Very briefly I want to go over
4 those recent actions and the other things we have done,
5 primarily to give you a feel for the fact that the work
6 is accelerating. And it is a measure of that by the
7 fact of a number of things in my office.

8 There is a hand out, of which there are
9 copies for the public on one of the chairs behind me,
10 dated the 16th. What I have done there is very briefly
11 reviewed what we have done in the last two and a half
12 months from March 1 until May 15.

13 And during that period the TMI program
14 office, which is my office, did complete safety
15 evaluations and issued -- completed our reviews and
16 issued approvals for five major cleanup activities and
17 systems.

18 The first one being the plenum assembly lift
19 and transfer, which was done successfully yesterday.
20 And from my perspective in watching it and in talking
21 to my staff who were in the command center at the
22 time, it went very well. The company handled it well.
23 And it was very well planned. And it went off
24 basically without any hitch at all.

25 The second item we have approved during this

1 period based on extensive review and many meetings is
2 heavy load handling over the TMI-2 reactor vessel,
3 which is always a difficult question. On a restrictive
4 basis, naturally, there are certain things that have to
5 be handled over it.

6 We have improved the design and installation
7 of the fuel canister storage racks, both in the deep
8 end of the canal inside the containment building and
9 also in the fuel storage pool in the fuel handling
10 building.

11 We did an extensive review and engaged our
12 consultant on refurbishment and retesting of the polar
13 crane auxilliary hoist, a 25-ton auxilliary hoist, on
14 the same crane that was load tested last year.

15 And the final major item that was reviewed
16 earlier on in this time period was the internal
17 indexing fixture processing system, which is a water
18 cleanup system.

19 Just to give you a feel, I had our office
20 count the total number of detailed procedures that
21 implement things like the five I just lifted. In that
22 time frame of March 1 to May 15, we reviewed and
23 approved 161 detailed procedures. That is handled in
24 large measure by Dr. William Travers' office, my deputy
25 at the site.

1 And we expect that in the coming months that
2 we will probably be reviewing and taking action on
3 about 60 per month, which is a very significant work
4 load. But we are gearing up to handle that.

5 I should indicate in the past, at least on
6 initial review, we have rejected somewhere around 10
7 percent and required the company to do something
8 different, with changes. And I think that is probably
9 true with these numbers as well.

10 But we also have major items with future
11 cleanup activities. We are reviewing the defueling
12 water cleanup system. We are taking under review the
13 safety evaluation report we received from the company
14 on the equipment hatch. We are reviewing the technical
15 design of the fuel canisters, the containers that will
16 receive the damaged fuel. We have recently received a
17 status report on the decontamination status of the
18 reactor building. We have that under active review.
19 And under review a recirculation system of the reactor
20 building sump.

21 You have received correspondence on all of
22 these major review items. And I know you receive a lot
23 of paper, but again I wanted to put this in some
24 prospective for you as to what we are doing.

25 I would be glad to answer questions on this.

1 Dr. Masnik will give you a status report on inspection
2 and enforcement matters. If anyone has any questions?

3 MR. SMITHGALL: I was going over that last
4 packet of information we got and trying to decipher the
5 input of it all.

6 My question is, Are there any significant
7 changes to the technical specifications of the plan
8 that you have altered? I guess the one that stuck out
9 in my mind is the proposal of GPU to change some of the
10 technical specifications in the recovery operation as
11 deleting the PEIS from any review significance.

12 Should we be concerned about these things?

13 MR. SNYDER: Could you repeat that?

14 MR. SMITHGALL: Looking at April 12, GPU
15 proposal.

16 MR. SNYDER: Which item is that? I have the
17 list, but not the enclosures.

18 MR. SMITHGALL: Maybe I am taking the import
19 of all your technical reviews of what you are giving
20 me. Change request 4829, I guess, is the one I see
21 from GPU. That was just one I picked out. Another was
22 changing materials status reports and nuclear material
23 transfer reports, inventory and record requirements.

24 Are you altering those technical
25 specifications of the plan as they go along with

1 recovery? And are they significant to what we should
2 be doing here on the panel?

3 MR. SNYDER: I don't think any of them are of
4 great significance. Basically what GPU has proposed
5 and has been doing actually over the last five and a
6 half years, we are up to 48 and they are numbered
7 sequentially. There are a whole series. Very
8 frequently on any plan there are updatings made to the
9 technical plans, which are really the rules by which
10 the plant was run.

11 There have been many that have come to us,
12 obviously, through the normal course of events. Most
13 of them, however, are changes to reflect the difference
14 in status of the plant as an operating plant versus the
15 plant as a damaged reactor and in the process of
16 cleanup.

17 In fact, those most recent ones, 46, 47, and
18 48; 47 we have acted on and 46 and 48 are in-house now.
19 They take into account there are certain surveillance
20 items, namely, testing of pumps and valves and things,
21 that can't be performed. But regulation requires they
22 be performed. They can't be performed because they are
23 in radiation areas and they don't need to be exercised
24 because they are not needed for the safety of the
25 plant.

1 And we review and concur on those issues and
2 will change their technical specifications accordingly.
3 So that is the nature. There are really, I don't
4 think, any big issues in those items.

5 MR. SMITHGALL: I guess the wording of the
6 request from GPU is what caught my eye more than
7 anything else, which they were justifying the deletion
8 of the PEIS from (inaudible) as it is defined in your
9 regulation.

10 MR. SNYDER: The PEIS?

11 MR. SMITHGALL: Maybe I am making a point
12 here that is really insignificant, but that is what
13 caught my eye. As far as the PEIS being a document
14 against which the NRC reviews safety evaluation
15 reports, technical evaluation reports, and system
16 descriptions.

17 MR. SNYDER: Could I see that?

18 MR. SMITHGALL: Sure.

19 (Handing.)

20 THE CHAIRMAN: We got this package of
21 information yesterday.

22 MR. SNYDER: I would be honest. This one,
23 although it is dated April 12, it is still under review
24 in my office. And I frankly have not personally
25 reviewed this. I would obviously review it before we

1 took any action on it.

2 So you have raised a good point. We will
3 take a look into it. Without going through it all here
4 in detail, I am not sure of the significance of this
5 change, but we will certainly look at it.

6 MR. SMITHGALL: I guess I will go down to
7 some of the things we have discussed which we talked
8 about in Lancaster where you did approve the technical
9 specifications with the boron concentration, for
10 example, and heavy load travel.

11 I guess the upshot of my question is it might
12 be important for us to know what you would consider
13 major or significant to our Panel, technical
14 specifications that they are proposing to change and
15 those you have changed. And it might be of interest to
16 this Panel if we could have input as they are being
17 proposed.

18 I know they come through in this manner. But
19 one of the things I found is we get the packet of
20 information with the request and the approval in the
21 same packet of information.

22 MR. SNYDER: Not on tech spec changes. They
23 normally take a month or more typically two months.

24 On some of the safety evaluations that we do
25 on cleanup activities themselves, like the list that I

1 read to you at the beginning of my discussion here,
2 those are sometimes acted on fairly quickly, yes, so as
3 not to hold cleanup up.

4 MR. SMITHGALL: That is the upstart of my
5 question.

6 MR. SNYDER: I would say as a general
7 statement, the tech spec changes will, in many cases,
8 implement approval in principle what we have given in
9 another piece of paper. That catches the big ones.
10 Many of the tech spec change items are very small
11 details, truly of a housekeeping nature.

12 MR. COCHRAN: Some of these changes, at least
13 the request, the request to be exempt from regulatory
14 requirements like NCFR 70.53, that might be tech spec,
15 but that is an exception from regulation as opposed
16 to --

17 MR. SNYDER: That is true. That one is under
18 review.

19 MR. COCHRAN: Don't you require public notice
20 and so forth on a case like that?

21 MR. SNYDER: I don't believe so for
22 exemptions. But I am not authorized to grant
23 exceptions.

24 MR. COCHRAN: Who is?

25 MR. SNYDER: Office directors only. Denton

1 and that level are authorized to grant exemptions to
2 the regulations.

3 MR. COCHRAN: I guess this one interested me
4 on being exempt from the requirements to inventory
5 materials. It might be stolen or lost or whatever,
6 plutonium and the like.

7 MR. SNYDER: I think you will agree under our
8 regulations, the regulations require a certain set of
9 safeguards only if the material is less than 100 hour
10 per hour and three feet. And this is a lot less.

11 MR. COCHRAN: So you are suggesting that none
12 of these regulations are required to be met because it
13 is already radiated material?

14 MR. SNYDER: That is part of the question.
15 But the issue on the proposal that GPU has made for an
16 exemption request, which is under active review by the
17 NRC, but their proposal is based on the impossibility
18 of doing a detailed gram accounting of the fuel. If
19 you have read the proposal, that is the origin of it.

20 MR. COCHRAN: Before this proposal is
21 granted, could we spend more time on this issue?

22 MR. SNYDER: Sure.

23 MR. COCHRAN: I would like to do that.

24 MR. SMITHGALL: During the plenum lift I am
25 sure there will be concern from persons in the public

1 tonight, and perhaps they can come answer those, but
2 there was continuous venting during the plenum removal.

3 And I was wondering if you could share if
4 there was any release and what the content might have
5 been?

6 MR. SNYDER: I am not aware of any releases.
7 The monitoring indicating no abnormal releases. There
8 was continuous monitoring in the stack. And it is my
9 understanding and maybe Bill Travers can look at that.

10 But it is our understanding there was no
11 increase in that.

12 MR. TRAVERS: We did have inspectors
13 monitoring. And as Bernie stated, there was no
14 increase.

15 MR. SMITHGALL: Anything unusual within the
16 containment building?

17 MR. TRAVERS: As the plenum was lifted, there
18 was an increase radiation levels, but they were less
19 than conservative estimates. I am talking about the
20 direct radiation readings in the air.

21 MR. COCHRAN: How about the stack?

22 MR. TRAVERS: About a curie a day krypton.
23 But there were some estimates and increased radiation
24 of the direct kind as opposed to airborne. I believe
25 the people in the building were exposed to 30 mr per

1 hour, which is pretty low.

2 THE CHAIRMAN: Any other questions or
3 comments?

4 MR. ROTH: In part of the document that we
5 received was a violation of the Section 48503 where a
6 Notice of Violation associated with Section 48503 was
7 issued March 6, 1985, identifying three items of
8 noncompliance.

9 One question I would like to ask is basically
10 you said they have been categorized on a Severity Level
11 3. Now would you refresh my memory, and perhaps other
12 people's, on the increments there?

13 MR. SNYDER: Severity Level 1 is the highest,
14 Level 5 is the lowest.

15 MR. ROTH: What is the worst?

16 MR. SNYDER: One.

17 MR. ROTH: So three is?

18 MR. SNYDER: In the middle. There is
19 discretion at the three level whether civil penalty is
20 imposed.

21 MR. ROTH: Is there a civil penalty on this?

22 MR. TRAVERS: There is no civil penalty.

23 MR. SNYDER: There was no civil penalty. And
24 I believe the Notice of Violation probably says that.
25 It came from our regional office in the Philadelphia

1 area.

2 MR. ROTH: There were a couple of things that
3 GPU said in their response to the violation. And I
4 would like to get your feeling on how you felt about
5 that.

6 They specified there has been a reduced
7 sensitivity and awareness to special considerations
8 involving protection for high energy beta radiation. I
9 guess what caught my eye was the use of the term
10 "reduced sensitivity and awareness" and how you felt.

11 Is this a viable answer and satisfactory
12 answer as far as you were concerned?

13 MR. SNYDER: Well, as far as our review of
14 the incident that caused this Notice of Violation, that
15 is an accurate statement on their part in that the
16 reason that the skin contaminations occurred were
17 because of the lack of appreciation on the part of the
18 individuals involved. And GPU did take prompt
19 corrective action in that case.

20 And for that reason, I think the reasons we
21 did not issue a civil penalty are stated there. But I
22 believe that was certainly one of them.

23 MR. ROTH: I guess to a certain extent I
24 don't know whether GPU should be congratulated on their
25 answer or what, but I believe there were some keywords

1 or catch words or emotional words that sort of hit me.

2 And basically it boils down to the fact that
3 I was quoted (inaudible) even though these individuals
4 have been briefed on the hazards of beta radiation,
5 they have had little opportunity to gain practical
6 experience in working in areas of high energy beta
7 radiation sources.

8 After having been told how things are so
9 good, here is an admittance saying it really hasn't
10 been as great as we said it was. That is what I am
11 seeing here.

12 MR. TRAVERS: In this case there clearly was
13 a problem. And in evaluating it, we tended to agree
14 that the people involved were the biggest part of that
15 problem. In weighing whether or not a civil penalty
16 ought to be imposed we didn't just look at the
17 language.

18 We did a detailed look at the kinds of things
19 the licensee planned to implement so that those
20 situations would be avoided in the future. And our
21 decision was there was a bigger attempt on their part
22 to put into effect new controls or better controls that
23 that would preclude.

24 You never can entirely, but to the best of
25 their ability, preclude this kind of -- even

1 administrative -- that there wasn't an exposure in
2 excess of NRC limits, but there was an exposure in
3 excess of their administrative levels.

4 MR. ROTH: The next question I would raise
5 is, is there some way that you, your inspectors can
6 follow-up that what was said on paper is really going
7 to be done down there rather than have it occur again?

8 MR. TRAVERS: Sure. And we do that to the
9 extent we are able to. We have three radiation
10 specialists assigned to the office; but we are still
11 rather a small group of people. It is an audit
12 function, but it is probably a function that is more
13 comprehensive than any other site in the country.

14 MR. SNYDER: I think the short answer is
15 absolutely. Having a problem in this area, we are
16 following it up. We have a systematic approach and
17 appraisal of the licensee's conduct.

18 THE CHAIRMAN: You say you have three
19 individuals responsible for monitoring?

20 MR. TRAVERS: Three radiation specialist
21 inspectors.

22 THE CHAIRMAN: How does that compare to the
23 last several years?

24 MR. TRAVERS: It is the same number for the
25 last, I would say, three years.

1 THE CHAIRMAN: So you haven't seen any
2 cutbacks?

3 MR. TRAVERS: Right after the accident there
4 were many.

5 THE CHAIRMAN: But recently it is stable?

6 MR. TRAVERS: Yes.

7 MR. MASNIK: Earlier this week I called both
8 our Office of Investigation and Enforcement people and
9 asked them for an update on two issues.

10 One being the polar crane hand break
11 investigation being conducted by EIO and the other
12 being the enforcement action relative to the issue of
13 harassment.

14 I was informed by OI that essentially the
15 people work of the investigation has been completed
16 with the exception of one or two interviews. They will
17 begin the review of the transcripts and analysis and
18 writing the report.

19 I was told that they would be completed
20 within a couple of months. So their moving wasn't as
21 optimistic as was told to us several months ago.

22 As far as the enforcement action, I was
23 informed that the staff has completed the document
24 which is the Notice of Violation, and that it has been
25 sent for management review. This is upper management.

1 And from this last review, it was sent to the
2 Commission.

3 The Commission has some period of time to
4 review this document. And again we hope we are within
5 probably a month of having a completed enforcement
6 action in this issue.

7 THE CHAIRMAN: Any questions?

8 (No response.)

9 THE CHAIRMAN: Item 3 is DOE status report
10 and discussion of shipping cask availability during
11 defueling.

12 MR. BIXBY: As the panel is aware, in March
13 of 1984 the department signed a contract with GPU to
14 retire the TMI-2 core for research and disposition.
15 That contract specifies that DOE was to provide the
16 ampacured (phonetic) and radiation services with
17 shipping. Mr. Harold Berton was involved with the
18 procurement of the cask. And for the next well 20
19 minutes we will use visual aids and answer any
20 questions after that.

21 MR. BERTON: In March 1984 they signed a
22 contract with GPU for research and development
23 purposes. The first thing I would like to tell the
24 panel is we at EG&G are eager to receive the core. It
25 is the key to our research and development program. We

1 feel it is extremely important to understanding the
2 consequences of the TMI-2 accident. And you will note
3 we have done quite a bit of work on the accident
4 consequences.

5 To get to the specifications about the
6 shipping casks, in August of 1984 EG&G signed a
7 contract with Nuclear Packaging Incorporated to provide
8 two fuel shipping casks for the DOE obligated
9 activities. In January of 1985 we completed a
10 preliminary design on those casks. By March of 1985 we
11 had completed fabrication of a quarter scale mock-up of
12 the cask, which is exactly quarter scale of every
13 feature within the cask, including seals, lids, and all
14 other features which are important to cask performance.

15 Sitting in front of you you see a 1/10 scale
16 model, which is made of plastic. It is not quite as
17 rugged as the quarter scale model because it already
18 has several chips in it from assembly and disassembly.

19 I would like to show you more, but I would
20 like to point out earlier this month we completed at
21 Sandy and National Laboratories a series of tests on
22 the performance of the quarter scale test model. The
23 video will show you some short parts of those series.

24 Don't be alarmed by what you see in the
25 video. Some of the tests were performed at minus 25

1 degrees Fahrenheit. So what is falling off of the cask
2 is ice and it is not radiation. There was no radiation
3 material in the cask. These were simulations. There
4 are simulated canisters within the cask and other
5 features are analyzed.

6 After you see the film, if you have any
7 questions Dr. Bixby and I will answer those. And if
8 you wish, we can disassemble the tenth scale model and
9 Mr. Jeff Quinn, who parks his car in the wrong places
10 sometimes, can disassemble the cask, and we can show
11 you the main features of that unit.

12 So with that, if I can figure out how to turn
13 on the video machine. The figures are interesting, but
14 you have to listen to the words because the words
15 really describe the features of the cask. I know it
16 may be difficult to follow.

17 (Presentation of film.)

18 MR. COCHRAN: Have there ever been any
19 incidences where workers have failed to properly
20 enclose one of those canisters prior to shipping?

21 MR. BERTON: It is a tough question to answer
22 because I would have to know what all workers have done
23 on casks before. Let me comment on what we plan to do.

24 MR. COCHRAN: That is not what I want.

25 MR. BERTON: As you noted, there are two lids

1 on this cask. Each lid has double O ring seats. They
2 have the capability of testing each time you load it.
3 And we will test it by vacating the section between the
4 two seals and doing helium leak tests on the vacated
5 area.

6 So we will test those seals and ensure
7 integrity --

8 MR. COCHRAN: I don't want to you repeat the
9 film. Have you ever done a study of accident
10 incidences involving shipping casks of nuclear reactor
11 fuel? Have you ever researched this issue?

12 MR. BERTON: Yes.

13 MR. COCHRAN: And have there been any
14 incidences where workers failed to properly secure?

15 MR. BIXBY: Type B casks, I believe there
16 never have been any incidences.

17 MR. BERTON: The only fact that I know and
18 can quote from a report by Sandia National Laboratories
19 printed in January 1985 called consideration to the
20 safety of transporting fuel. And quoting from that
21 report, actually not exactly quoting, they basically
22 say there never has been a radioactive release in a
23 Type B shipment in the United States.

24 MR. COCHRAN: I realize you don't know the
25 answer to my question and that was not the question.

1 But if you discover such an incident in your
2 research, which I would hope you would go back and look
3 it up, would you get back to us if there has been such
4 an incident?

5 MR. BERTON: Yes.

6 THE CHAIRMAN: It really was a very
7 impressive film and we appreciate you bringing it here
8 today.

9 MR. BERTON: We are looking for volunteers to
10 go with each of the shipments.

11 (Laughter from audience.)

12 MR. COCHRAN: I understand that the fuel will
13 be researched. But what is the intended -- what is
14 intended in terms of the bulk of the fuel? Will it be
15 processed or stored?

16 MR. BERTON: It will be stored.

17 MR. BIXBY: These canisters will be available
18 to go to a depository.

19 MR. WARD: Do I understand it will take three
20 years to move all of the fuel?

21 MR. BIXBY: It is our current projection with
22 the two casks that we can ship the fuel in 23 months.
23 There is capacity in the spent fuel pool to house the
24 canisters should there be delay.

25 MR. ROBINSON: Did I miss the radiation level

1 at the outside of the cask?

2 MR. BERTON: It is 10 mr, 2 meters.

3 THE CHAIRMAN: Any other questions?

4 (No response.)

5 THE CHAIRMAN: Maybe if there are people
6 during the break who are interested in seeing it
7 disassembled, I am sure there will be time.

8 Now, the last item before the break is
9 public comment. We do have two periods for this, so I
10 ask you to try and be specific on any question or
11 comment.

12 This is an opportunity for those people who
13 sometimes have problems staying to the end for them to
14 express viewpoints now. So if you would like to,
15 please raise your hand.

16 MS. KINNEY: Paula Kinney. I wrote my
17 question on a piece of paper because I want to keep it
18 focused into one thing. I have a question or perhaps a
19 suggestion for GPU concerning the full page ad that was
20 addressing Mr. Chairman.

21 Since there was so much confusion that you
22 didn't receive the letter and, et cetera, et cetera,
23 that since GPU apologized and they are so sorry about
24 all the confusion, that perhaps had they considered
25 running a full page ad of explanation or perhaps an

1 apology rather than just, Oops we are sorry, but that
2 is the way it goes? Who do I address this to? How
3 about Mr. Bedell?

4 THE CHAIRMAN: If anybody from GPU would like
5 to respond to that? I didn't hear them say they had
6 any interest in doing such a thing.

7 MS. KINNEY: I didn't either, but I am
8 wondering how sorry they really were.

9 THE CHAIRMAN: Does anyone from GPU want to
10 respond?

11 (No response.)

12 MS. LEE: Jane Lee. Members of the Board, I
13 just wanted to make one brief observation. I saw the
14 ad in the paper today and my immediate reaction was,
15 Surely the Advisory Panel did not do this. That was my
16 immediate reaction and I want to thank you for
17 solidifying my trust in you.

18 I would like to pose a question to this Board
19 and to GPU. Supposing I would decide that I wanted to
20 write an ad in the paper of that size, and that I
21 wanted to get my point across, and I wanted to make
22 sure that the public read it. Would it be right for me
23 to use this Advisory Panel? Would it be correct for me
24 to use the Commonwealth of Pennsylvania, Governor
25 Thornburgh to get my point across?

1 Unfortunately, we have been bombarded with
2 these ads in the paper at the expense of the rate
3 payers for the past six years. I can't help but think,
4 after 11 years of being involved in this business, how
5 really helpless the American people are against this
6 industry. And to add insult to injury, we have to pay
7 the bill. Thank you.

8 THE CHAIRMAN: Are there any other
9 individuals?

10 MR. COCHRAN: I would like to clarify one
11 thing. The ads specify that they are not charged to
12 the rate payer.

13 MS. KINNEY: That doesn't make it so. They
14 juggle the books.

15 MS. CORRADI: Joyce Corradi. I have some
16 real questions about the casks. One is, in
17 relationship to being transported by rail, I would like
18 to know, is there any intention or plans for it to be
19 tested once it is on the flatbed to be carried by rail?
20 I would like to know if routes have been planned; if
21 there will be special people and equipment that will
22 follow this?

23 THE CHAIRMAN: Is there anything else?

24 MS. CORRADI: No. Those are the only two I
25 have for now.

1 MR. BERTON: I will answer the part about the
2 testing. First off, as in all of our shipments, what
3 will be done is we have had an on-site inspector when
4 we took possession of material from GPU. And that is a
5 certified transportation specialist by the Department
6 of Energy. Each of the procedures is checked. The
7 safety of the shipment is checked against a safety
8 analysis report which is written and approved by the
9 Department of Energy.

10 And by the way, NRC on-site also does a
11 courtesy inspection for the Department of Energy before
12 releasing the shipment. And in addition, GPU does
13 their own inspection before even presenting the papers.

14 You might say on all outside shipments there
15 are three inspections done by three independent people
16 to make sure shipment is really ready to go.

17 In regards to notification and
18 transportation, the exact railways have not been
19 chosen. We are now negotiating with the railroads on
20 what path to take; and that will depend on the use of
21 the rail lines and our frequency of use and our needs.

22 They will be documented in the safety
23 analysis report which is reviewed and approved also by
24 the Department of Energy.

25 MS. CORRADI: Are you saying you haven't set

1 up a total time frame for this procedure yet?

2 MR. BERTON: No, because one of the things we
3 are doing is we are looking at whether or not to ship
4 two casks at a time with one train pulling the casks,
5 or to send a cask with each train. Because it makes a
6 lot of difference in our total time schedules.

7 MS. CORRADI: Does not the FCC have something
8 to do with the procedures -- I'm sorry ICF?

9 MR. BIXBY: The Department of Transportation.

10 MS. CORRADI: They have to be approved by
11 them also? So can you give me an idea of the time
12 frame before each of these procedures?

13 MR. BIXBY: We plan to do the same thing we
14 did as far as notifying the Middletown Police
15 Department and notifying the State to inform them when
16 each shipment was going to go. We plan to do the same
17 notifications on each of the shipments.

18 Because for the shipment we made (inaudible).

19 MS. CORRADI: There will be no special
20 personnel that will travel with it?

21 MR. BIXBY: We do not plan to have any
22 special provisions for people escorting these
23 particular shipments.

24 MS. CORRADI: You don't feel it would be
25 suspect to sabotage?

1 MR. COCHRAN: The 30 foot drop. The cask is
2 traveling at 30 miles an hour?

3 MR. BIXBY: On an unyielding surface. If you
4 compare that, it is about the equivalent of a truck
5 traveling 120 miles an hour and hitting a bridge
6 abutment one meter thick. In fact, if you -- back when
7 the design for these were set up, they took an obsolete
8 cask and dropped it from a plane onto the earth. That
9 cask sunk into the ground by 52 inches. And that
10 showed less damage than taking that same cask and
11 dropping it onto this unyielding surface.

12 MR. COCHRAN: To answer Miss Corradi's
13 question, would you be doing testing on a flatbed? The
14 only test I am aware of is the bridges test of shipping
15 casks where they had -- where they ran a locomotive
16 into the wall or whatever.

17 MR. BIXBY: I am not sure what the tests are
18 that Joyce may be referring to.

19 MS. CORRADI: I wasn't referring to any. I
20 was asking what had been done.

21 MR. BIXBY: I think Mr. Berton responded on
22 the tests that would be done to ensure the containment
23 integrity of those casks prior to departure.

24 I think the tests we are doing here right now
25 are designed to show, under the most severe

1 circumstances, that these casks will be able to
2 withstand pretty severe accidents.

3 MS. CORRADI: He still hasn't really answered
4 my question. Will there be done anything from the rail
5 once it passes on the rail? Any kind of testing with
6 regard to impact?

7 MR. BIXBY: To take a rail car and actually
8 run that into some kind of abutment? The answer to
9 that question is no.

10 But back in 1978 in order to begin the
11 development or to verify the analysis techniques, a
12 cask, not this identical cask, was placed on a railroad
13 car or placed on a flatbed. A train going about 80
14 miles an hour ran into the cask and basically
15 demolished the train and left the cask intact.

16 And we plan to use the same analytical
17 techniques. In fact, the same analytical techniques
18 were used to design the full scale model and the full
19 scale cask.

20 MS. CORRADI: My question is, if in fact that
21 is really true, why waste the time and energy to
22 develop a cask and go through these procedures if that
23 one has done so well?

24 MR. BIXBY: Because this one is designed to
25 verify some particular features that are particular to

1 TMI-2, particularly the feature that this has double
2 seals that will prevent any leakage from the cask
3 cabinet and the other had a single containment. That
4 is because the fuel was considered to be, the spent
5 fuel, was considered to be a second level of
6 containment.

7 Here we really have three levels of
8 containment; the canister, one level and a second level
9 which is the outer seal for the cask body.

10 THE CHAIRMAN: I am going to allow Joe to
11 make his statement now and one other person to come up
12 and ask a question on the record. Then we are going to
13 take a break. And if people have other questions, we
14 have another public comment segment later.

15 MR. DI NUNNO: I wanted to ask a question
16 about the design. I am under the impression that the
17 type of tests you are doing on this cask are really
18 prescribed for Type B casks for this kind of material
19 by the Department of Transportation and these tests
20 have been standardized based on consideration of
21 accidents on trucks and accidents on railroads.

22 So Joyce, if my assumption is correct, in
23 effect there is a test both from truck travel and train
24 travel and they are required before they get Department
25 of Transportation approval to show and demonstrate

1 these tests have been successfully passed.

2 So I think what you are seeing here are
3 standard requirements for this kind of shipment, plus
4 probably excess due to the special interest of this.

5 MR. BERTON: I want to make sure you
6 understood the tests are not required. The
7 requirements are for the cask to withstand a 30 foot
8 drop on an unyielding surface. The tests were
9 voluntary on our part to verify the analytical
10 requirement.

11 MR. DI NUNNO: They have no regulation.

12 MR. BERTON: They have design requirements,
13 but they did do not have testing requirements.

14 MR. DI NUNNO: So you are confirming the
15 analytical model?

16 MR. BERTON: Yes.

17 THE CHAIRMAN: I think that is very
18 impressive because, if it gets loose, whatever is in
19 its way is in trouble.

20 MR. CHARLES: I heard -- I wanted to note the
21 total number of trips estimated and also the volume and
22 the amount of radioactivity in each cask?

23 MR. BERTON: I have to go back and relate to
24 our shipping scenario. When you ask how many
25 shipments, if you ship two casks per train, it is half

1 the amount than if you ship one.

2 MR. CHARLES: The total volume of what is in
3 the core?

4 MR. BERTON: Some say 200 and some say 300
5 and some 250. I don't think it is really important,

6 MR. CHARLES: It will be kept track and
7 logged, how much radioactive material.

8 MR. BERTON: There was some discussion
9 earlier about GPU's method of fuel use accountability.
10 And I think that should be a separate subject. I
11 wouldn't want to address that in detail. But yes,
12 there will be an accounting.

13 THE CHAIRMAN: I do believe that has been
14 asked before. And we may want to have someone respond
15 to it.

16 MR. CHARLES: I wanted to know the volume of
17 material and the radiation and how many trips.

18 THE CHAIRMAN: I think they have replied as
19 best they can. And maybe somebody else wants to speak
20 to how the radiation, radioactive material, is
21 monitored as to quantity and type prior to being
22 shipped out?

23 MR. BERTON: The design requirement for the
24 cask is that it hold, each canister is limited to a
25 certain weight, and that happens to be 2,940 pounds.

1 That is a maximum quantity of fuel to be loaded in each
2 container. And that is more than one fuel element per
3 container.

4 So the number of 238 -- there there will be
5 more in some canisters and less in others. We will
6 estimate the amount of material by weight, by
7 physically weighing each can. But we wouldn't do a
8 detailed measurement of each isotope.

9 THE CHAIRMAN: We understand that. We are
10 asking the NRC or GPU who will do the measurement and
11 estimation, as the man is asking, the amount of
12 material and the type of material?

13 MR. SNYDER: It is GPU's responsibility.

14 MR. BERTON: GPU is required to provide that
15 information to the Department of Transportation prior
16 to our taking possession of material.

17 THE CHAIRMAN: So the question, will it be
18 measured and accounted for, the answer is, yes, by GPU?

19 MR. BERTON: Yes.

20 MR. WARD: I am confused by the neat
21 arrangement. These are orderly casks and the
22 description with relation to our information at the
23 last meeting concerning the state of the core, I am not
24 sure how the larger pieces will fit into this.

25 MR. BERTON: There are three kinds of

1 canisters that GPU designed. And we covered those in
2 the safety analysis reports. We also reviewed and
3 approved of the design because they are going to store
4 them for 30 years.

5 One type holds rubble material, and it is
6 called a knockout canister. And that is what they
7 initially vacuum off the debris bed. One holds find,
8 which is a filter material. And that also comes from
9 the vacuuming and water cleanup process. And the third
10 type of canister has a square arrangement inside a
11 round tube. And what you have to do is cut the
12 material off to fit inside that canister which is in
13 large chunks.

14 The inside of that square cross section is a
15 half inch larger than the original fuel size, so any we
16 find that look like original fuel we will slip inside
17 those canisters.

18 MR. WARD: Is this going to be shipped dry or
19 wet?

20 MR. BERTON: Dry.

21 THE CHAIRMAN: Thank you.

22 (Brief recess at 9:00 p.m.)

23 THE CHAIRMAN: The first item on the agenda
24 for this part of the program is GPU current cleanup
25 schedule.

1 MR. STANDERFER: I provided to the NRC on the
2 30th of April a letter which outlined the schedule for
3 the remainder of the year pertaining to the start of
4 defueling. I believe you were provided a copy of that
5 letter this evening. And I think you got one earlier
6 in the mail.

7 What that schedule says is there are two
8 basic critical paths to start the defueling. We
9 estimate start of defueling in the middle of September.
10 And the critical paths to defueling involve the
11 installation of several pieces of defueling equipment
12 which are outlined on the first eight or nine lines.

13 And the second critical path on the 11th,
14 which is the preparation of and qualifications of
15 operators, all coming together at the start of
16 defueling. And our best estimate is the middle of
17 September.

18 The removal of plenum for the middle of May
19 was accomplished yesterday. I have a three minute
20 video of that summarizing the three hours of that
21 operation, if you would like to see it. I can give you
22 an idea of what the plenum looks like.

23 (Presentation of film.)

24 MR. STANDERFER: I know you haven't gotten a
25 chance to study the schedule. And I have Dave Bucannan

1 here of my staff to cover Item 6, which is to describe
2 some of the equipment and the actual manipulations
3 which will be involved in the defueling of the reactor.

4 THE CHAIRMAN: Anybody have any questions at
5 this point on Item 5?

6 MR. ROTH: I am not sure that this is
7 directed just towards you. I am sure there is a
8 certain amount of involvement by your public
9 information department. But I am going to ask you.

10 On the plenum. Let's say, for the sake of
11 discussion that I concur the lifting of the plenum,
12 after the research, was a straight forward piece of
13 engineering work. The Public Relation Information
14 Department sends out a press release saying that it
15 could occur at any time.

16 MR. STANDERFER: Wednesday, is any time.

17 MR. ROTH: Now, I was advised on Monday night
18 by a member of your staff that the plenum was going to
19 be lifted on Wednesday. That was the way it looked
20 within certain parameters.

21 MR. STANDERFER: That is what we had on our
22 press release on Monday. Not definitely.

23 MR. ROTH: Not definitely, but could be.

24 The reason I asked this individual the
25 information is because one of the ways I gauge public

1 sentiment is the number of phone calls I get asking me
2 questions. And that is, people were really interested
3 in knowing when the plenum was going to be lifted.

4 And when I relayed that information back to
5 these people on Tuesday afternoon, Tuesday morning,
6 some of these people called public information. And as
7 one of them said, your department was very cordially
8 deceptive, and would not answer the question directly,
9 and kept referring back to the press release.

10 And that just really confounds me. And it
11 just seems, if somebody is asking a very direct
12 question of that nature, that they do deserve a direct
13 answer on that point rather than, we are sticking by
14 our press release. And we only believe, after it is
15 done, another press release will go out.

16 And coincidentally, tonight you referred back
17 to that ad saying one of the reasons that ad was put in
18 the paper was it was a way to get information to the
19 public. So you spent X number of thousands of dollars
20 to inform the public of what you the company thinks is
21 important. And yet you wouldn't answer a phone call
22 honestly.

23 And I would like to know (a) who makes those
24 decisions?

25 MR. STANDERFER: Well, the answers to the

1 public were accurate. The press release on Monday was
2 accurate. We were planning to put a press release out
3 on Friday, but until Monday morning we weren't sure we
4 could lift it this week.

5 On Monday we were confident it could be
6 lifted this week, no earlier than Wednesday morning if
7 everything went well. I didn't know when it would be
8 lifted on Tuesday night. On Tuesday night we began
9 filling the pool that it was put into. We had to let
10 that sit overnight to make sure there were no leaks on
11 the pool.

12 On Wednesday morning at 8:45 when the lifting
13 rig was satisfactorily seated, I gave approval to
14 proceed to do the early lifting check out. At eleven
15 o'clock on Wednesday morning I approved lifting of the
16 plenum.

17 Until I did that at eleven o'clock Wednesday
18 morning, I didn't know it would be lifted on Wednesday.
19 So the press release said, If everything goes
20 satisfactorily, the earliest we can accomplish that is
21 Wednesday. And I believe the answer, as well you may
22 interpret them to be evasive, were the accurate
23 portrayal of what we understood to be the case.

24 MR. ROTH: It seems to me there is a little
25 bit of paradox there. It would seem to me that huge

1 desire of your Public Information Department to inform
2 the public and people who have a particular interest in
3 this particular engineering task who make the effort
4 and call, there seems to have been a better way of
5 handling it as far as I am concerned.

6 Those people who cared should have been given
7 more information than was in the press release, more
8 straight forward. And it just really confounds me to
9 hear this rigmarole of informing the public.

10 MR. STANDERFER: We had no better information
11 until I approved on Wednesday morning to approve the
12 lift. It could have been Thursday or Friday depending
13 on whether all the equipment checked out.

14 Since the first of the month we have been
15 operating on two shifts a day. There were some things
16 on Saturday and Sunday over the weekend. There were
17 equipment changes that had to be made in the fuel
18 transfer equipment that an engineer flew to Wisconsin
19 to get. We didn't know whether those pieces of
20 equipment would work when they were installed into the
21 vessel.

22 So the official schedule date was Friday of
23 this week. We accomplished the lift two days ahead of
24 schedule.

25 MR. ROTH: I don't want you to be put in the

1 position of defending your Public Information
2 Department, because I do feel that there are people
3 down there that wanted the information to be at least
4 available to the best of their ability to know it.

5 And it just seems in this area there
6 definitely was, and this is their opinion and it is my
7 opinion too, that the Public Information office at this
8 point is really orchestrating quite a bit of aggressive
9 behavior on their part. That there is arrogance on
10 their part. And it seems almost that the one thing
11 they are proving competent in is their arrogance.

12 I think they are talking out of both sides of
13 their mouth and perhaps Doug or someone from his
14 department can answer that, because I don't wish to put
15 you, as the technical, in the position. I would like
16 to know where that policy comes from.

17 MR. STANDERFER: In this particular instance
18 that we are talking about, the Public Information
19 office had to rely on information from me. Each day
20 they came to me and said what can we say when we get
21 questions?

22 They were accurately reflecting my best
23 understanding of where we were and what the schedule
24 was. The NRC didn't know until I gave the approvals on
25 Wednesday morning that it would be lifted Wednesday.

1 THE CHAIRMAN: Let me say I think you
2 answered the question that was asked. Obviously Joel
3 has a different reaction to it.

4 I think you kind of sent that back and forth.
5 Joel made his point, and I think you have answered it,
6 at least to your satisfaction.

7 THE CHAIRMAN: Joel, do you have anything
8 else besides that?

9 MR. ROTH: I would like to hear, since that
10 was just the policy on that, why that department could
11 not take that step and even say that to the people who
12 made the effort to call? That that was the key. The
13 people who made the effort to call, that when we do
14 know, we can either return that call to you or
15 whatever.

16 The information that I got back from the
17 people was that was not done. It was just, we are
18 sticking to the press release and that is it; rather
19 than taking that extra step and saying we will call you
20 back or something. That call back phone call costs 23
21 cents. And I can't equate that public information bit
22 with something like this ad.

23 MR. BEDELL: The gentleman from the TMI
24 Information Alert was talked to by Gordon Thomas, my
25 colleague, on Tuesday. Gordon repeated what we have

1 been saying in the press release that we were planning,
2 we were shooting towards or working towards lifting the
3 plenum on Wednesday. But we weren't certain we could
4 lift it up on Wednesday.

5 We weren't rushing the operation. We were
6 completing the preparation; and if they were all
7 completed and Frank Standerfer approved, the plenum
8 would be lifted. He thanked us and said he appreciated
9 the information very much. Gordon suggested they call
10 us back and he indicated he would.

11 That is the only call we received. And I
12 think you have to recognize something else here. This
13 work is a process. It is not best done in units to be
14 stopped and started. One shift turns over the
15 information it has gained to the shift that replaces
16 it.

17 Before the plenum was lifted, we were working
18 around the clock to complete the preparation so this
19 lift could continue. And the best way to do it and
20 safest way to do it was in that fashion and not to
21 interrupt the work when it was ready to go,
22 particularly since you can see this was a straight
23 forward engineering operation.

24 We gave the people the best information we
25 could. We did the job safely.

1 MR. ROTH: My point simply is this. It just
2 seemed to me that the judgment on it could have been to
3 take that one step further and get back to whether it
4 was the one person or two persons involved. Because if
5 it indeed was a straight forward engineering operation,
6 than why not just come out with that information? And
7 that is my simple point.

8 MR. SMITHGALL: This is your schedule for
9 1985. How do you see this '85 schedule affecting the
10 overall cleanup, and particularly the schedule that you
11 have outlined for us in February?

12 MR. STANDERFER: We expect to be able to
13 remove the fuel from the primary system in the one and
14 a half to two years planned. We expect to complete the
15 rest of the cleanup in the time frame that has been
16 discussed in the past with the finishing of the cleanup
17 in the middle of 1988.

18 There is nothing so far that indicates we
19 cannot accomplish the cleanup on that schedule.

20 MR. SMITHGALL: In one of your press releases
21 you referred to, it was said that the defueling could
22 be carried out as planned barring any unforeseen
23 equipment problems or technical problems.

24 Can you give me an idea of what you might
25 expect, what might delay that operation as far as

1 equipment is concerned?

2 MR. STANDERFER: For example, the lifting of
3 the plenum was a highly visual thing. The most
4 important thing was the fuel transfer system was
5 successfully tested on Monday.

6 We have been working with that system for
7 almost five weeks, with a number of equipment problems.
8 We had to return gears to some of the manufacturers.
9 We had to modify some of the plant structures that
10 interfered with parts of the system.

11 That system, if it had worked exactly as it
12 was delivered, would have been checked out and
13 satisfactory about three weeks ago. So that is an
14 example of the kind of problem we can run into.

15 I don't believe any of those problems involve
16 long delays; it is weeks. And we can generally stay on
17 schedule by working second shifts.

18 So I don't anticipate anything that will be a
19 major delay. But I can't promise that, because this is
20 all first of a kind equipment.

21 MR. SMITHGALL: How would you characterize
22 the remaining defueling operation as far as scheduling
23 is concerned? Would you consider having room for those
24 delays or is it a tight schedule?

25 MR. STANDERFER: The schedule initially was

1 established on the assumption that there was 10 to 20
2 percent of the fuel in the primary system, outside of
3 the reactor vessel. If that were true, the removal of
4 that material was going to be a fairly difficulty job.

5 As we are getting more and more inspection in
6 the reactor vessel, more and more material is in the
7 reactor vessel and not in the loops. So at a first
8 indication, it will be, at least, as easy or easier to
9 accomplish the removal.

10 But depending on how tightly it adhered to
11 the surface, it might be more difficult. Right now I
12 believe the original schedule is satisfactory.

13 MR. SMITHGALL: Any additional costs that you
14 see from the slippage in your schedule at this
15 point?

16 MR. STANDERFER: No. While the start of
17 defueling is two to three months later than the target
18 established a year and a half ago, I see no slippage in
19 the completion dates. And I don't any reason why the
20 established budget last summer is not satisfactory.

21 THE CHAIRMAN: Any other questions from the
22 panel?

23 (No response.)

24 THE CHAIRMAN: Let me in going on to the next
25 portion ask the panel a question and you, Frank, the

1 question as well.

2 Due to the time of the night, and the other
3 items we have coming up, and the fact that the fuel
4 removal will not begin now until September -- The
5 reason we wanted it scheduled for this meeting is
6 because we were expecting it to be earlier.

7 I don't know all the things you prepared for
8 tonight, and if you would much prefer to continue with
9 that this evening?

10 MR. STANDERFER: We could change it to
11 another meeting, another night. I think Dave Bucannan
12 can give you a shorter summary than 20 minutes.

13 THE CHAIRMAN: Why don't we see if he can
14 give us a quick summary, or if any panel member
15 disagrees.

16 MR. SMITHGALL: I would like to ask one other
17 question. When you had the plenum out before you
18 slipped down the temporary cover, did you have any
19 opportunity to do any study of the reactor at that
20 point in time?

21 MR. STANDERFER: In this evolution there were
22 no individuals in that area. One of the things we will
23 be doing is some more examinations of the top part of
24 the vessel and the bottom of the vessel similar to what
25 I showed you. And that will be done in the July time

1 frame.

2 MR. BUCANNAN: I will use my one viewgraph
3 and run through what it will consist of. This is a
4 simple sketch of how the containment building appears.

5 Let me first off, I will take a couple of
6 minutes and describe what the basic plant features are
7 for defueling. And I will use a comparison to talk
8 about what we are going to be doing.

9 This is the reactor vessel. And directly
10 connected to the reactor vessel is called a fueling
11 canal. So in normal fueling you can continue the water
12 up so you fill this entire pool.

13 Then the fuel transfer system, which is a
14 tube that goes from the containment building into the
15 fuel handling building, the pool. And that can also be
16 filled. So on normal fueling, we use a special fuel
17 handling bridge or crane. And we keep it under water
18 and transfer it over and load it into the fuel transfer
19 mechanism and then into the storage fuel and replace
20 the storage assembly into the rack. During all that
21 work, the fuel simply remains under water.

22 However, at TMI because of our unique
23 conditions we are going to change that method.
24 Probably where we have to start, the ability to remove
25 the fuel is going to need unique tooling. We will need

1 long handled tools. So you do want to try and keep
2 them as short as possible, but they are going to be
3 long handled tools.

4 So then we start into investigating, although
5 I want to keep the core covered with water inside the
6 reactor vessel, I want that height of water to be as
7 short as possible for worker efficiency. We arrived at
8 a water height that is shown in the sketch. So it is
9 just slightly above the reactor vessel, but lower than
10 the standard pool height.

11 So we come up with an arrangement then where
12 we will take fuel, while working under water take
13 pieces of fuel and core material and load them into
14 canisters and come down and we will be doing that when
15 the worker is working on a platform.

16 We will then bring this fuel canister grid
17 over the work platform and shield the platform. But
18 there are plugs to gain access to it. We can use the
19 fuel canister grid and lower the graft device
20 (phonetic), engage the canister, and lift it up to the
21 fuel handling bridge.

22 At that time it will be dry and no longer
23 under water. But the bridge has accurate shielding for
24 protection. And it trolleys over so it is in line with
25 the deep end of the pool. And as you can tell from the

1 picture, it goes down close to the surface of the water
2 and we can lower the canister into the fuel transfer
3 system mechanism. That is done vertical and then a
4 holder rotated in a horizontal position, then out into
5 the fuel storage pool. Then the canister is uprighted
6 and picked up with another canister bridge and moved
7 into a position over a storage rack and lowered into
8 the storage rack. And it reremains there until ready
9 for shipment.

10 We are making use of the basic plant
11 features. But we are doing it partially wet and
12 partially dry, which is a variance to the standard.

13 Once into the fuel racks, I think it was
14 mentioned earlier we have provisions to store 250. But
15 then as the shipping arrangements are made, we can go
16 from a storage rack into a transfer cask loading area.
17 Again, we will be picking up the canister into a
18 shielded cask, and move this crane in and over so we
19 can position the transfer cask into the shipping cask
20 for transfer off site.

21 That is a five minute presentation on how it
22 will be done.

23 MR. STANDERFER: As we install this equipment
24 throughout the summer, we will be able to show you
25 short videos of what it looks like and how it operates.

1 THE CHAIRMAN: Obviously, we need a good
2 amount of time to spend on this issue. But the fact is
3 I recognize that, and I think it would be fair to give
4 it more time at the next meeting.

5 I appreciate your quick presentation.

6 MR. BUCANNAN: I believe it is a good picture
7 and it is to scale.

8 THE CHAIRMAN: Is there any quick question
9 anybody wants to ask on this presentation?

10 MR. SMITHGALL: This transfer through the
11 reactor vessel is not a normal situation?

12 MR. STANDERFER: Through the containment
13 vessel?

14 MR. SMITHGALL: Yes.

15 MR. STANDERFER: That is the normal way to
16 transfer through those tubes. The system originally
17 installed in this plant was a geared system. The BMW
18 plants have been switched over to a cable driven
19 system; and we have installed the cable driven system.
20 So we have the Babcock and Wilcox system. We had to
21 make some modification; and that is the system that was
22 successfully tested on Monday.

23 And we wanted to get that tested before we
24 fill any of those pools of water, because otherwise the
25 work would have been done under water.

1 MR. BEDELL: I am in the Media office. And
2 in addition to the one call we got on Tuesday that I
3 referred to, there was another call to our office the
4 previous week before we had been able issue a press
5 release. But on the Tuesday in question, our Community
6 Affairs Office also received two calls from two women
7 in the community.

8 The first lady, when we asked, was unwilling
9 to give us her phone number. The second lady gave it
10 to us and on Wednesday we called her. The phone was
11 answered by a young lady who said she was a house
12 sitter. So we were unable to contact her.

13 MS. SKOLNICK: That was me. When I called
14 for information about the lifting of the plenum, I
15 wasn't asking for myself. I was representing a
16 membership of an organization called Susquehanna Valley
17 Alliance.

18 THE CHAIRMAN: The next item we have is Item
19 7, which is a Panel discussion on the level of the
20 Panel's inquiry into health effects studies and data
21 related to the radioactive release during the TMI-2
22 cleanup.

23 It is a discussion between the Panel and the
24 Commission as to what it is we are getting to involving
25 health effects data. And Tom Smithgall agreed at the

1 last panel meeting he would take a look at this and
2 draft something up. So I will ask him to lead the
3 discussion on it.

4 MR. SMITHGALL: I would like to state, first
5 of all, that Joe DiNunno took the onus off me and
6 prepared a real nice synopsis of this, which I think
7 Mike will present.

8 THE CHAIRMAN: Would you read it out loud?

9 MR. SMITHGALL: This is under copyright of
10 Joe DiNunno.

11 MR. COCHRAN: It looks like one or two pieces
12 of single sheet text. It may be more useful to review
13 it at another time.

14 THE CHAIRMAN: I feel we owe something to the
15 Commissioner. Very quickly and see if we can't have it
16 read into the record very quickly.

17 MR. SMITHGALL: I am going to go with the
18 proposed scope addition. It is proposed that the scope
19 of activities of the Panel be enlarged to provide a
20 public forum for the presentation of results of studies
21 on health effects related to the release of
22 radionuclides during the TMI-2 accident.

23 Criteria to be followed: (1) The
24 Panel, meetings are intended to provide a means for
25 facilitating the communication of plans and results of

1 studies/reviews deriving from Federal, State, ad TMI
2 Public Health Fund efforts regarding the TMI-2
3 accident. To the extent that Government funded generic
4 studies such as those sponsored by the National
5 Institute of Health on effects of low-level radiation
6 may be helpful to the public in reviewing the TMI
7 experience, such presentations would not be excluded.

8 (2) The Panel will not serve either as a
9 referee or as an independent technical reviewer of such
10 studies.

11 (3) The Panel will refrain from involvement
12 in generic health effects issues such as standards for
13 radiation health and safety protection.

14 (4) Panel priority will continue to be the
15 TMI-2 cleanup program. The health effects issue will
16 not dominate the agenda of topics to be addressed.

17 Those are basically the proposed scope.
18 Probably our recommendation to be followed --

19 MR. WARD: It seems like a reasonable
20 delineation of what we can do and what we can't. And
21 it does go beyond what we originally set out to do.
22 But since there is no other game in town that is doing
23 this, it seems reasonable that we should.

24 The only question I have is whether the
25 Public Health Fund is doing this or not. I spoke with

1 one of the Burger attorneys who indicated they had some
2 kind of meetings with the public also. But if it is
3 not redundant, then it makes sense.

4 THE CHAIRMAN: Would you be willing to make a
5 motion to accept this?

6 MR. DI NUNNO: I make a motion that we accept
7 this as a basis for proceeding, Mr. Chairman.

8 MR. WARD: I second.

9 MR. SMITHGALL: On No. 4 this is only a wordy
10 thing. It is a matter that health effects issues
11 should be on the agenda or appear they would not
12 dominate the agenda.

13 MR. COCHRAN: Does that mean one meeting or
14 spread over the activities?

15 MR. SMITHGALL: I just don't like the closed
16 door on that one.

17 MR. WARD: I think that reflected a concern
18 with the members of the Panel and some of the
19 Commissioners that really the purpose of the Panel was
20 to focus on the cleanup of TMI-2. And this, in a
21 sense, reassures them we are not thrown way off bound.

22 MR. COCHRAN: But 4 does not imply that any
23 one meeting one could not devote time?

24 THE CHAIRMAN: To me 4 implies there is
25 leeway to the panel to determine what is dominating and

1 what isn't. And I would assume that the majority of
2 the Panel members present will make that determination
3 if we get into a problem.

4 I think it sets the tone of what it is I
5 think I have heard in the group, and the Commission as
6 well, that we are basically here on TMI-2 cleanup. But
7 we need some outlet for health outlooks or whatever the
8 wording is.

9 MR. COCHRAN: Three is a little vague to me.
10 One could read it that one could not discuss it under
11 any circumstances. And I am referring to generic
12 health effects issues and so forth.

13 Or one could read it to mean that we shall
14 leave this forum sort of as a (inaudible) society as to
15 what (inaudible) will be. I think it would be fair
16 game to discuss the fact that there are differences of
17 expert opinion on the issue.

18 MR. WARD: My interpretation would be that
19 this is in the sense an indication that we do not
20 consider ours qualified to deal with generic health
21 issues; not that we will never mention there are some
22 issues.

23 THE CHAIRMAN: As a panel we do not. As
24 individuals, I assume there could be something on that.
25 But I go back to the fact, if it is becoming dominating

1 or if the generic health effects issues are something
2 the panel as a group should take issue on, than
3 somebody is going to have to raise it.

4 My feeling is this is simply a guide. And if
5 somebody sees someone getting into generic health
6 effects and it is too detailed, they are going to
7 remind us. And we will have to decide as a Panel where
8 to go.

9 MR. COCHRAN: What you say and what is said
10 here are two different things. What is said here is
11 there is a criterion; and that is, you will refrain
12 from involving yourself in generic health issues.
13 Which implies you will not talk about what the cancer
14 risk coefficient is.

15 THE CHAIRMAN: I would like to hear the Panel
16 members on this. I think No. 3 says the Panel will
17 refrain from involving in genetics. I think as a Panel
18 that would be true.

19 I would as chairman give a little latitude to
20 individuals to a point on that, but not as an
21 overwhelming discussion to get us off what our main
22 reason for existence is.

23 MR. ROTH: I hear what you say, but I don't
24 know how to define it.

25 MR. MASNIK: It says refrain rather than

1 prohibit. I think it is up to the Panel to decide.

2 THE CHAIRMAN: I think the words are chosen
3 very well. I don't know if Joe meant it that way, to
4 be more explicit.

5 The last thing I think you want to get into
6 is the effect of low-level radiation, which has been
7 going on for 20 years. Because I don't think (1) we
8 have the competence. And I don't think it will ever
9 get resolved here.

10 There are other forums for that sort of
11 thing, and they are standard forums. We have argued
12 this time and time again. I don't think this is the
13 place to do it.

14 As one Panel member, I agree with that in
15 general because we had some of that take place. And I
16 don't think we really satisfactorily resolved it in
17 anyway. But having said that, I still feel we need a
18 little latitude to allow the Panel to get into that.

19 When you and Neal and Gordon need to raise
20 it -- listen, we are getting off track here.

21 MR. SMITHGALL: We basically got stopped in
22 our tracks on this anyway with the Commission. They
23 did give us some latitude. So if we are going to talk
24 about it at all, we are going to have to find something
25 that is palatable to them.

1 MR. COCHRAN: I would like to offer an
2 alternative to the reading for 2 and 3. To just say
3 the Panel will not serve either as a referee or as an
4 independent technical reviewer of such studies or of
5 generic health effect issues such as the standards for
6 radiation health and safety protection, "the Panel will
7 not serve either as a referee or as an independent
8 technical reviewer of such studies or in generic health
9 effects issues such as standards for radiation and
10 health and safety protection."

11 THE CHAIRMAN: How is that with you?

12 MR. DI NUNNO: Okay.

13 THE CHAIRMAN: Neal, would you accept that as
14 an amendment to your motion, to your second?

15 MR. WARD: Yes.

16 MR. COCHRAN: I think that is the sense of
17 what you intended.

18 MR. WARD: My point is we are not going to
19 try and resolve questions on generic health here.

20 MS. LEE: I think it is ironic to plead
21 ignorant on health effects. I ask you how great an
22 expert you are on cleanup.

23 I had concerns on the lifting of plenum, for
24 instance, lifting it from the water and transferring
25 it --

1 THE CHAIRMAN: What I will have to do -- We
2 are into this particular item now.

3 MS. LEE: I going to have to leave and I will
4 make it very brief.

5 THE CHAIRMAN: I am sorry. I gave you a
6 chance to discuss this particular agenda item. If it
7 is not on this, we cannot cover it right now. It
8 covers the health effects.

9 MS. LEE: You will not get involved in the
10 plenum. I have so many questions on that I couldn't go
11 into it.

12 But the main thing I am concerned about on
13 health effects is the initial releases to the public
14 and the implications of the health, the venting off
15 56,000 curies of krypton and the implication of the
16 continuous venting for the past six years.

17 THE CHAIRMAN: I am going to insist now. Are
18 you talking about this statement? Are you talking
19 about this statement before us tonight or health
20 effects in general? If you have a question on health
21 effects, you have to come back when we cover that.

22 MS. LEE: I would like for the Board to
23 recommend to the NRC, if this Board feels it is not
24 qualified to deal or is prohibited from dealing with
25 it, and it seems everybody is, after all that is the

1 bottom line.

2 But if that prohibits you from dealing with
3 the health effects, perhaps the Board could recommend
4 to the NRC that somebody "balance" on a forum that
5 could address it.

6 THE CHAIRMAN: That is why we are taking it
7 up, so this Panel can get involved to the degree we
8 outlined today. That is the whole reason we are taking
9 it up tonight.

10 MS. LEE: It is difficult for the public to
11 come in and understand what the rules and regulations
12 of this Board are. And when the public has a chance to
13 ask a question, and in the meantime so many questions
14 are flitting across your mind about certain issues that
15 bypassed because of the time, for one thing.

16 THE CHAIRMAN: If anybody comes to these
17 meetings and listening to the health effect studies,
18 they would clearly understand what it is we are
19 attempting to define tonight to allow us to permit some
20 public discussion on health effects. And hopefully the
21 NRC will accept what it is we are about to act on now.

22 MS. LEE: I didn't understand it.

23 THE CHAIRMAN: I'm sorry you didn't.

24 MS. LEE: I think somebody has to be
25 concerned somewhere.

1 THE CHAIRMAN: That is why we are doing what
2 we are doing.

3 THE CHAIRMAN: Any other discussion?

4 All those in favor of the motion as it stands
5 with the amendment say aye.

6 (All panel members respond aye.)

7 THE CHAIRMAN: Passage unanimously.

8 This is something I am sure we will make sure
9 the Commissioners get prior to the meeting, so we can
10 ask them for an answer. Is that possible?

11 MR. MASNIK: It depends on how quickly you
12 can get it to them, but I would shoot for that. I
13 would put in it a letter format to the Chairman.

14 THE CHAIRMAN: I will put it in letter format
15 and hope and suggest that they give us an indication at
16 the next meeting. I would think, if you can at the
17 next meeting, that you might want to tell them we would
18 proceed with this as an outline until we are informed
19 otherwise.

20 MR. SMITHGALL: What is the panel's wish on
21 that letter? Do you want to use what we talked about
22 in Joe's outline here or put the entire background in?
23 What I am saying is, I think background is important to
24 the scope and criteria.

25 THE CHAIRMAN: Unless somebody has a problem

1 with the background, I would be more than happy.
2 Probably what I will do is somehow try to copy this and
3 send one and make the amendment that we made tonight,
4 if that is okay.

5 Anything else?

6 (No response.)

7 MR. COCHRAN: I ask this be condensed.

8 THE CHAIRMAN: Who is going to do the
9 consolidation of the background information? I don't
10 feel I should be trying to do that.

11 MR. COCHRAN: I think it could be condensed
12 down. (Inaudible.)

13 THE CHAIRMAN: If you want to give me
14 latitude to play around with the background
15 information --

16 MR. COCHRAN: Fine.

17 THE CHAIRMAN: On to No. 8. For those in the
18 audience who don't know what it is, it is the wrap up
19 of worker skin contamination and other radiation issues
20 related to the TMI-2 cleanup. It is the wrap up of the
21 Philadelphia Inquirer article.

22 And at this time, if GPU could come forward?
23 And I think Frank Standerfer should be here to answer
24 any questions.

25 I would like to thank GPU for the time they

1 spent last month answering the questions. I thought
2 they were very helpful in doing that. And we did feel
3 there would be a need for some additional time for the
4 people to ask questions.

5 At this time I open that up. I realize we do
6 only have 15 minutes assigned to that.

7 MR. COCHRAN: I would like to go back to my
8 line of questions which were deferred until this time.

9 Maybe Doug Bedell or George McKelvy could
10 come back because they were here when I was talking
11 about this issue before.

12 MR. STANDERFER: Did you have any questions
13 on the skin contamination letter?

14 THE CHAIRMAN: No. The purpose of this item,
15 from my standpoint, was I would ask for a wrap up
16 discussion on, I think, anything regarding the skin
17 contamination question or the prior article.

18 And I think what Tom was getting into
19 involves the part that GPU ran in answer to the
20 Inquirer article.

21 MR. COCHRAN: I would like to ask a question
22 about skin contamination. I apologize for not being at
23 the last meeting. I read the transcript and it appears
24 that you made a good case that skin contaminations were
25 not a serious problem on the island, and at least it

1 was indicated in the newspaper reports.

2 I did ask the NRC to provide as part of that
3 presentation an identification of how many cases
4 involve positive smears so I could get a measure of
5 which ones might be more serious than others. And if
6 that kind of information is available, I would like to
7 have it provided to the committee at some point.

8 MR. STANDERFER: That is a big one.

9 MR. COCHRAN: I would like to go back to my
10 previous discussion. And just to sort of get back into
11 it, I don't want to misrepresent you, so correct me if
12 my interpretation is wrong.

13 But your objective in the ad with respect to
14 the Inquirer article was to set the record straight
15 because, in your view, you believe the Inquirer in
16 quoting selectively it misrepresented the general
17 consensus of expert opinion on the subject.

18 And this would be an attempt to get that
19 record straight?

20 MR. STANDERFER: Yes. Twenty-two months of
21 detailed tail discussion and volumes and volumes of
22 information, we felt they selectively used information
23 and did not include the total context.

24 And at the last meeting, one of your own
25 panel members was interviewed and commented his

1 comments were treated in the same manner. We believe
2 the only way to set the record straight was to publish
3 our rebuttal. And that is what we did.

4 MR. COCHRAN: I can appreciate your
5 objective.

6 I would like to, in my view, you may have
7 gone beyond your objective as you just stated it.

8 You stated in the ad that the Inquirer's
9 experts have little credibility and singled out Dr.
10 Radford and Dr. Morgan and Dr. Gofman and Dr. Johnson.

11 Now, do you believe that the consensus in the
12 health physics community, or does GPU believe that Dr.
13 Radford has little credibility in the community?

14 MR. STANDERFER: The experts that you
15 mentioned are not in the center of the current health
16 physics community views on the issues that were
17 discussed in the Inquirer. They are on one fringe of
18 the views.

19 We recommended to the Inquirer other experts
20 which we believe they could have discussed the issues
21 with. And if both the opinions of the gentlemen you
22 mentioned and the opinions of others were used, we
23 believe that a more balanced understanding of the
24 community would have appeared in the articles.

25 MR. COCHRAN: I agree with that statement.

1 But that is not what your ad says.

2 Your ad says that Dr. Radford and Dr. Morgan
3 have little credibility. That is the headline. It is
4 "Inquirer experts have little credibility." The
5 implication of these two paragraphs is that these
6 people are not credible people in the scientific
7 community.

8 MR. STANDERFER: They don't represent the
9 majority opinion.

10 MR. COCHRAN: That is a different matter
11 than saying somebody does not represent the majority
12 opinion and saying, for example, he is intellectually
13 dishonest.

14 MR. STANDERFER: I don't believe we used
15 those words.

16 MR. COCHRAN: You quoted Judge Kelly?

17 MR. STANDERFER: Yes, we did.

18 MR. COCHRAN: Does GPU or you personally
19 stand behind that assessment of Dr. Morgan, that Dr.
20 Morgan is intellectually dishonest and he changes his
21 data, invents his data to protect his opinion?

22 MR. STANDERFER: We accurately quoted a U.S.
23 Federal judge who spent months on this issue and who
24 published those views.

25 MR. COCHRAN: I agree with that. You

1 certainly accurately reflected his opinion.

2 My question is, Do you or does GPU share that
3 opinion? Not are you correctly quoting the judge who
4 has spent hours and days and months on the case, but do
5 you from your entire knowledge, including your
6 discussions with your own experts, share that opinion
7 of Dr. Morgan?

8 MR. STANDERFER: We are not taking a position
9 one way or the other on the individuals. We do
10 disagree with their technical analysis. And we believe
11 the Inquirer should have solicited views from others
12 who disagree with these members of the community. And
13 we believe that the Federal Judge's opinion is worthy
14 of being published.

15 MR. COCHRAN: Does the Federal Judge's
16 opinion accurately reflect the technical community in
17 evaluating whether Dr. Karl Morgan is intellectually
18 dishonest and fabricates his technical analysis to
19 justify his opinion?

20 MR. STANDERFER: You will have to pole the
21 community to get that answer.

22 MR. COCHRAN: My point, Mr. Standerfer, is
23 you are accusing the Inquirer of doing a public
24 disservice by selectively quoting people to
25 misrepresent the facts. And I am telling you, I think

1 you have selectively quoted a Federal judge to
2 misrepresent the integrity of Dr. Morgan.

3 Now, I am asking you, do you stand behind the
4 Judge's assessment of it, or are you simply using this
5 Judge as a vehicle to run Dr. Morgan's credibility into
6 the ground?

7 MR. STANDERFER: We accurately quoted the
8 Judge. And as we said last time, for the total facts
9 in the case, you must take the Inquirer's article and
10 our response and read them together.

11 MR. COCHRAN: Has GPU made an assessment of
12 that case, the factual evidence in that case?

13 MR. STANDERFER: No, we have not.

14 MR. COCHRAN: Suppose let me turn it around.

15 MR. STANDERFER: To the extent the Judge's
16 opinion is incorrect, I would assume the gentleman will
17 take legal action.

18 MR. COCHRAN: You recognize there is no legal
19 action to be taken in a case like that. You recognize
20 he cannot be sued for libel because he is a Federal
21 judge and he is protected against libel suit?

22 MR. STANDERFER: I am not a lawyer.

23 MR. COCHRAN: Then you shouldn't make that
24 statement.

25 MR. STANDERFER: They can make statements.

1 THE CHAIRMAN: Let me interject. Just one
2 minute.

3 I think the point you attempted to make in
4 that part, you made. You have attempted to get Mr.
5 Standerfer to answer the question. And he is deferring
6 the answer to your specific question by saying they
7 properly quoted what the Judge said and they are not
8 going to give an opinion of the kind you are looking
9 for.

10 You have asked it three times earlier and
11 twice now. And the way they are answering it earlier
12 is the way he feels it must be answered here for
13 whatever reason. And I think that is very clear.

14 MR. COCHRAN: Are you suggesting you want to
15 cut me off?

16 THE CHAIRMAN: No. But I think on that one
17 item your point has been made and you can pursue other
18 things.

19 MR. COCHRAN: This time Dr. Radford. He was
20 the chairman of the Somatic Dose Committee on the Peer
21 3 Committee. Is that correct?

22 MR. STANDERFER: I don't know.

23 MR. COCHRAN: Neal, can you verify that
24 statement?

25 MR. WARD: I know he chaired the committee

1 and found himself at odds with the majority.

2 MR. COCHRAN: He chaired the subcommittee and
3 found himself at odds with the full committee. Does
4 that make him have little credibility in your view?

5 MR. STANDERFER: I am not going to comment on
6 Dr. Radford's qualifications.

7 MR. COCHRAN: It says, although another of
8 the individuals cited in the Inquirer, Edward E.
9 Radford, is the former chairman of the 23 member Peer
10 Committee, he is the loan dissenter from its 1980
11 report. He, in fact, was not the loan dissenter. Dr.
12 Rossi also had the minority.

13 Isn't that correct?

14 MR. STANDERFER: No.

15 MR. WARD: That is Rossi filed his own
16 report. I don't remember the technicality, but I
17 remember there was a difference.

18 MR. COCHRAN: Does this mean that what you
19 have stated, that Dr. Radford had little credibility --

20 MR. WARD: Well, I --

21 MR. COCHRAN: You want to stay out of this?

22 Does GPU believe Dr. Radford has little
23 credibility?

24 MR. STANDERFER: I wouldn't answer that
25 question.

1 MR. BEDELL: I was involved with the
2 preparation of this ad. What this ad was attempting to
3 do was to point out that the Inquirer quoted four
4 scientists. All four are not in the majority or
5 consensus view on the matter of health effects.

6 We were much better prepared to discuss it
7 last month, but I think you will see Judge Kelly's
8 decision mentioned that the four scientists quoted by
9 the Inquirer were not in the majority. All we are
10 saying is that the Inquirer did not quote anybody
11 representing a consensus view on this matter, of which
12 there are hundreds, and relatively few on the other
13 side. We were making that point.

14 In terms of their views being accepted by the
15 majority of radiation scientists, they clearly have not
16 been accepted. All we were saying is that was the
17 case. That was the point. We were not making a
18 statement about their competence, about their training
19 or background or anything. We were simply pointing out
20 they were not part of the consensus view and the
21 Inquirer, as we said at the top of the ad, had run
22 something other than a one-sided story they would have
23 consulted the other side; which is indeed the greater
24 majority side.

25 MR. COCHRAN: I understood the first time you

1 said that; and I agreed with you with regard to your
2 assessment of the Inquirer. But that is not all you
3 were saying.

4 You, in fact, were quoting a judge. And you
5 are not prepared to stand behind the quotes you are
6 using. Now, I can do the same thing. I can say I know
7 full well that Mr. Standerfer is an extremely competent
8 engineer and manager and has had a long history of good
9 government service at the Stanford Reservation.

10 But if I put out an ad and quoted some
11 environmental organization that took a shot at Mr.
12 Standerfer to demean his credibility as a technical
13 person, I think that would be wrong. It is quite
14 different to say that I disagree with a technical
15 opinion of Mr. Standerfer. And we can sit here and
16 argue about the technical fact. And I can make my case
17 on the technical merits.

18 If you won't stand behind what the person you
19 are quoting says, and you are not prepared to do that,
20 you shouldn't be quoting him.

21 MR. BEDELL: You are missing the point
22 entirely. It is not for us to stand behind the views
23 of a Federal judge.

24 MR. COCHRAN: It is if you put it in the
25 newspaper.

1 MR. BEDELL: It is not. It is simply to
2 point out from a sampling of the ruling that that judge
3 made that the people he was talking about are not in
4 the majority and we quoted his ruling. We are not
5 second guessing the Court. He spent months hearing
6 that case and trying that case. He made his decision
7 and we quoted it.

8 THE CHAIRMAN: I don't want you getting angry
9 with me because I want to keep the meeting going. But
10 I think your point has been made on your feelings on
11 the article.

12 MR. COCHRAN: The point is understood by
13 everybody in the room except GPU.

14 THE CHAIRMAN: I think they understand the
15 point you are trying to make, but I think I heard them
16 say you have to read both this and the Philadelphia
17 Inquirer article together to get a balanced opinion.

18 Which means they did not intend to present or
19 give a balanced opinion. That is their part of it.
20 They were giving the other side of the story, which was
21 not balanced either necessarily. And they are saying
22 you have to read them both together.

23 MR. STANDERFER: Exactly.

24 THE CHAIRMAN: So if Tom takes --

25 MR. COCHRAN: It is just as imbalanced as on

1 the other side?

2 MR. STANDERFER: Yes.

3 THE CHAIRMAN: But he admitted that early on.
4 And to get a balanced opinion, you need to read the
5 Inquirer article. They are just as scued one way as
6 the Inquirer the other. I am not saying I agree with
7 that.

8 MR. COCHRAN: Remind me to send you some
9 rules laid down by a British intelligence expert on
10 sort of the Ten Commandments on effective propaganda.
11 One is to tell the truth. And you have missed that.

12 MR. STANDERFER: We tell the truth.

13 MR. COCHRAN: To say the person has little
14 credibility it is not true of Dr. Morgan.

15 MR. STANDERFER: We do not claim the Inquirer
16 lied; and we wouldn't agree that we didn't tell the
17 truth.

18 THE CHAIRMAN: I must admit in reading the
19 Philadelphia Inquirer article and seeing what your
20 comments were at the last meeting, I felt they grossly
21 misrepresented what was taking place in certain areas.

22 But I feel the same is true of what you have
23 done. And I don't think either one is right. And all
24 I am trying to do is explain what I think you are
25 saying. And I think one is just as bad as the other.

1 And if you think that is necessary, that is the way it
2 is. I think that is unfortunate.

3 MR. COCHRAN: There is another commandment
4 you ought to think about. You must be convincing to
5 your enemy and not to yourself. And that is the
6 difference between Tokyo Rose --

7 MR. STANDERFER: We have nobody that we
8 consider enemies.

9 MR. COCHRAN: You understand this is from an
10 intelligence officer in World War II.

11 MR. STANDERFER: There is nobody that we are
12 terming our enemies or treating as an enemy.

13 MR. COCHRAN: I am not suggesting you are,
14 and I apologize if I was. That is one of the
15 commandments of effective propaganda in wartime
16 situation.

17 As it applies to you, you should be
18 convincing the people that you are trying to turn
19 around, as opposed to being convincing to yourselves
20 and the people you are fighting the air with. And I
21 think that is where you are falling down in your ads.

22 MR. SMITHGALL: I think it bears mentioning
23 this is not an isolated response to the Philadelphia
24 Inquirer article. We are bombarded with television
25 advertisements and daily newspaper advertisements. And

1 they are in the same vein. So I appreciate Tom's line
2 of questioning.

3 THE CHAIRMAN: I do too. And I would want to
4 be counted in the ones that aren't well influenced by
5 some of the media influences you use. I think you do
6 yourself a disservice from my standpoint in the way you
7 go about doing some of the things you do.

8 At the last meeting I think you answered the
9 questions very directly; and the answers seemed to be
10 very knowledgeable, and I thought were quite
11 impressive. And I think you do a disservice in the way
12 you handle some of the other things.

13 You take that for what it is worth.

14 MR. STANDERFER: And we listen to opinions
15 and the policy with regard to public programming will
16 respond and are responding to such opinion.

17 MR. BEDELL: I would like to point out people
18 involved with the preparation of the ad do not agree
19 that section of the ad was skewed.

20 What it is simply saying, the people quoted
21 by the Inquirer were not in the consensus group of
22 scientists. They are a small minority compared to the
23 consensus group of scientists. That is what Judge
24 Kelly's opinion said. And that is the only point we
25 were trying to make.

1 THE CHAIRMAN: You may think that; and, if
2 you do, it is unfortunate. You may disagree with our
3 opinion and we may disagree with your opinion. Tom
4 Smithgall felt he wanted to say something and I did
5 too.

6 MR. ROTH: I think Frank and your technical
7 staff and people are being severely misled by your
8 Public Information or misinformation department on the
9 way they are doing things. I am getting that feeling
10 very much so.

11 I concur with what Tom Cochran said as far as
12 what is said to you and your background and there are
13 competent people who have a desire for the public to
14 know and feel it should be answered straight forward.

15 I think the advice that department is giving
16 you is certainly causing more problems and it is
17 certainly exacerbating just what you want to get rid
18 of. I just thought I would like to make that statement
19 to you. Somewhere along the line I think you are
20 getting misled.

21 THE CHAIRMAN: Any other comments from the
22 panel on this subject?

23 MR. SMITHGALL: I want to go on to a
24 different subject.

25 THE CHAIRMAN: I will suggest after this

1 question that we move on.

2 MR. SMITHGALL: I asked at the last meeting
3 for a register of the GPU turnover of radiation
4 workers. Do you have that information?

5 MR. HILDEBRAND: That was in the response.
6 There are three items discussed in that letter, and the
7 turnover rate is there.

8 MR. SMITHGALL: Thank you.

9 THE CHAIRMAN: The next item is topics for
10 Advisory Panel discussion with the NRC Commissioners at
11 the June 20, 1985, meeting in Washington, D.C.

12 Mike, if you wouldn't mind helping us through
13 this?

14 One will be the request of the NRC to take
15 action on the letter that I am going to send them on
16 the health effects. So that will be the first item.

17 MR. MASNIK: In the March 29 memorandum to
18 the staff of the Commission, there was a series of
19 staff requirements. And that document has been
20 provided to the Panel.

21 But basically there were three staff actions.
22 The first dealing with the Panel's involvement in
23 epidemiological studies, which you just touched on.
24 The second was the staff was to provide the Commission
25 with an overview of the epidemiological studies taken

1 to date. And the third was guidance essentially to me
2 in providing you with information, to the Panel.

3 Then additionally two other issues brought up
4 tonight, the enforcement action and investigations.
5 That makes a total of five items.

6 THE CHAIRMAN: Are you calling enforcement
7 action one and investigation another?

8 MR. MASNIK: That is correct.

9 THE CHAIRMAN: Are there any comments from
10 the Panel members on the health effects issue, the
11 issue on staff providing us with -- the Commissioners
12 with an overview of the studies done to date, guidance
13 regarding info to the panel, enforcement action and
14 investigation. Any problems with those items?

15 (No response.)

16 THE CHAIRMAN: Any additions to that?

17 (No response.)

18 MR. ROTH: Why wasn't the Commission asking
19 the staff or counsel to set up some criterion? I
20 remember quoting the Chairman saying we were supposed
21 to receive everything.

22 MR. MASNIK: We were directed to review the
23 current policy on making the information available and
24 to revise the policy to delineate types of documents
25 that could be sent and those that could be made for

1 unrestrictive use and those with restrictions for
2 dissemination and those that should not be provided.

3 THE CHAIRMAN: And it is there that we should
4 be looking for some kind of update?

5 MR. MASNIK: Well, the Commission will
6 receive the document prepared by the staff and, again
7 in this case the Office of General Counsel, and should
8 come to some decision and present that to the Panel.

9 THE CHAIRMAN: I guess what I am saying is
10 hopefully they will be in a position to do it at our
11 meeting?

12 MR. MASNIK: I can't speak to that.

13 THE CHAIRMAN: It is a suggestion that they
14 will be able to do that for us so we can get some of
15 these issues resolved.

16 MR. MASNIK: I suspect that they were listed
17 in the letter to the Commission.

18 THE CHAIRMAN: Can I ask if the Commission
19 has received the info from the staff so they can act on
20 it?

21 MR. MASNIK: Yes, they have.

22 THE CHAIRMAN: Anything else that anyone
23 feels should be added?

24 (No response.)

25 THE CHAIRMAN: If anybody has any additional

1 topics they think should be added, I will be happy to
2 do that between now and when the letter goes out.

3 If there is nothing else, we can go right to
4 public comment and I will take the person who has their
5 hand up.

6 MS. SMITH: This panel wasn't slapped in the
7 face today, it was punched in the face with that ad.
8 What are you going to do about it?

9 THE CHAIRMAN: I am going to personally pay
10 for an ad in the Washington Post. And I say that semi
11 facetiously because I don't know what I can do. I
12 obviously don't have the financial resources.

13 I expressed my upset about the ad earlier and
14 I don't know what else beyond that I plan on doing. I
15 am not happy with that. I have spoken my feelings
16 strongly. I will sleep on that for now.

17 MS. SMITH: Do you really think after that
18 incident that this panel has a real purpose? And I ask
19 that out of pure innocence.

20 THE CHAIRMAN: I don't think the influence of
21 this Panel or purpose of this Panel is affected in
22 anyway by the ad that was taken out in the newspapers
23 today.

24 I feel that the Panel or several members
25 expressed they were upset by the way the ad was run.

1 But I don't think that has to do with our purpose.

2 MS. SMITH: There is obviously no respect for
3 this panel from GPU or Met Ed.

4 THE CHAIRMAN: Concerning that ad there was a
5 lack of professionalism in the way that was handled.

6 Again, I don't know if that hurts the way we
7 are operating or our purpose for existing. We are not
8 here to necessarily agree with GPU on everything they
9 do; and they may not agree with everything we do.

10 On this we have very diverse opinions. And I
11 am upset by the fact there was no real attempt to even
12 apologize or show concern for what took place. That is
13 the thing that concerns me the most.

14 MS. SMITH: Their consistency with lack of
15 respect continues.

16 MS. LEE: At the risk of being repetitious, I
17 would like to reiterate what I repeated before about my
18 concerns, and I think the concerns of the majority of
19 the people in this area.

20 (1) The initial releases that came from the
21 plant, which has not been resolved as yet, and probably
22 never will be to everybody's satisfaction. The venting
23 of the 56,000 curies of krypton following the accident
24 with the promise that there wouldn't be any more. And
25 then GPU subsequently followed with six years of

1 venting into the atmosphere, along with the testing of
2 the steam generator tubes which created more venting,
3 or at least an increase in radioactivity.

4 Now, we see where they have lifted the plenum
5 and the advertisement was, Just thought you would like
6 to know. They neglected to let the public know there
7 would be releases into the atmosphere.

8 It seems to me there is some selectivity
9 going on with GPU as to what they would like the public
10 to know.

11 My concern now is with the initial cleanup
12 that will now proceed. In speaking to an expert early
13 on in the accident, who is Dr. Chauncey Keffer, who
14 said to me, "This is nothing compared to what you are
15 going to see when cleanup proceeds. He said, Then you
16 better start to worry."

17 My question in watching what they propose to
18 do, with all the human errors. and I use the word
19 "human error" lightly. In the procedures that they
20 plan to use for removal of this fuel. In lifting it
21 from the water, the question in the back of my mind is
22 each time they are removing fuel from the water, how
23 much is being radiated additionally into the
24 containment and how much more is going to be vented?
25 And along with the venting, how much in particular such

1 as plutonium and cesium?

2 The bottom line in everything that is going
3 on are the health effects. I have been saying it for
4 11 years. That is the bottom line. This is all
5 cumulative. Every dose is cumulating in your body and
6 is passed on from one generation to the next. And I
7 would like to know who is keeping the store? Nobody.
8 Nobody is keeping the store. Thank you.

9 MS. DAVENPORT: Deborah Davenport. This is
10 also is in reference to getting notification of
11 lifting.

12 I would like to know if it's considered to be
13 a major operation or something that is a risk
14 operation, because if local officials are not alerted
15 to this when it starts and an emergency situation
16 arises and they have not received proper notice, or if
17 there is an evacuation if there are sudden releases.
18 Will we ever know? Who is notifying whom of these
19 situations?

20 THE CHAIRMAN: Let me tell you from my
21 standpoint as an elected official and maybe as chairman
22 of the Panel. I was called and the message was, Late
23 in the afternoon that the plenum lift was completed at
24 2:30 or whatever and there were no problems with it.

25 But again I received that and I don't know

1 who else was notified.

2 MS. DAVENPORT: Who is alerted before this
3 starts? Are people on standby in different counties in
4 case something should occur? I know hopefully nothing
5 will happen.

6 THE CHAIRMAN: They outline -- if you would
7 like to hear what risks are involved, I think somebody
8 could speak to that. But they outlined when they
9 explained the procedure, the relative risks that were
10 involved with the plenum lift. And it is my
11 understanding they were not significant.

12 Many different things could have gone wrong
13 without any release or anything like that. I don't
14 know if anyone from NRC wants to speak further to it.

15 MR. TRAVERS: The event is a milestone in the
16 cleanup. But we had responsibility, as we continue to
17 have it, in evaluating the risk associated with these
18 events. And essentially our analysis, a very detailed
19 one, of what was proposed as the risk of the
20 radiological consequence was very low.

21 As a result, it is more like a normal kind of
22 engineering evolution that was completed without
23 incident.

24 MS. DAVENPORT: I am not sure I agree.

25 MR. COCHRAN: I would agree with that with

1 respect to the risk. It is hard to see how you can
2 generate a high health risk associated with that
3 maneuver.

4 I can see how you could be concerned with
5 occupational exposure or severe economic accidents; but
6 it is hard for me to get a release of activity out of
7 the plant is --

8 MS. DAVENPORT: Secondly, with reference to
9 this, to any operation taking place in the plant, this
10 would be in regard to evacuation. Apparently on both
11 sides of the river roads are being repaired and torn
12 up.

13 My two year old son died in a car accident --
14 this is not my son, I am reading from an article. --
15 during TMI accident evacuation. The accident occurred
16 at 8:30 am on the morning of April 5 in the eastbound
17 lane of Route 322 near Kunkle. That fatality and three
18 other fatalities probably would not have happened.

19 My question is this, Can we really be sure a
20 careful notice, if this was not, is there some way that
21 things like this are checked out so a two year old is
22 not killed in a car wreck?

23 Last of all, the lawsuits that have come
24 through are both beyond the 10 mile range. And should
25 people want to evacuate there are no plans. They are

1 not adequate. Is there anything that the panel can
2 look into with respect to evacuation?

3 THE CHAIRMAN: Quite frankly, I don't feel
4 that is something that we can get into the kind of
5 detail you are talking about and to kid ourselves into
6 thinking we can do any kind of justice. That is county
7 responsibility. I think it has to be dealt with at
8 that level.

9 We as a panel, I don't feel can get into
10 evacuation plans or completeness of them or whether
11 they are satisfactory. I think that is their primary
12 responsibility. And if they are not sensitive to the
13 area of TMI, then truly that is a problem. But I don't
14 think this Panel act on that.

15 I am not saying it is not an important
16 subject. But I don't think that is something this
17 Panel can do justice to to the extent you are talking
18 about. I suggest you approach your county
19 commissioners and ask them the question.

20 MR. SMITHGALL: I think your effective input
21 is there rather than with our Panel. I think that has
22 been somewhat shown in other counties. That is the
23 area that you want to apply the pressure.

24 THE CHAIRMAN: Truly the County of Lancaster
25 has an evacuation plan that you can go to the county

1 commissioners and ask them questions and get assistance
2 if you want it. In the city we get involved as it
3 relates to the city.

4 So your elected officials locally are the
5 ones you should go to and make them accountable to you.

6 MS. DAVENPORT: You have established there
7 was a transfer of water from Unit 1 to Unit 2 during
8 the accident.

9 Would it be possible to ask for a timetable
10 revised as it occurred in Unit 2? In other words, can
11 you look into a timetable of events during the TMI
12 accident Unit 2 now that you know there was a transfer
13 of fuel water from Unit 1 to 2?

14 I think that points out some things may have
15 occurred. Can you ask or look into further what
16 happened during the accident?

17 THE CHAIRMAN: I am going to try and answer
18 the question as directly as I can.

19 What took place during the accident is not an
20 item under which we are getting into. We are
21 responsible to comment on the actual cleanup.

22 We did debate the health effects part because
23 there are panel members that feel we should because
24 there was nowhere else to go on that. We went to the
25 NRC and hopefully we will be able to get into health

1 effects.

2 As to the question you just asked, I don't
3 think that is the Panel's purview. And again, I think
4 if you have questions on that, you will have to seek
5 other assistance. I don't think the panel can get into
6 that. We need to focus in on what is our
7 responsibility.

8 MS. LEE: If you can't do any more than you
9 have done with GPU, what guarantee do you have in the
10 future to prevent a repetition of that article in the
11 paper? What can do you to prevent a repetition?

12 THE CHAIRMAN: I think I answered that
13 question previous. My answer was, I don't know what
14 can be done other than what I have said on this one.
15 And if there is a repeat on it, I will have to take
16 consideration at that point.

17 MR. SMITHGALL: I think you can see that the
18 ads will probably fall away as soon as they get their
19 restart decision at the end of the month.

20 THE CHAIRMAN: At this point, it is eleven
21 o'clock, which is one hour longer than we normally
22 meet.

23 MR. MASNIK: It is my understanding that we
24 will not have a meeting in June here. We will only
25 have the meeting with the Commissioners.

1 THE CHAIRMAN: That is my understanding. We
2 will meet next in July. And I would like to know from
3 the Panel members here if you have any objection to
4 meeting in Lancaster for the next meeting?

5 (No negative response.)

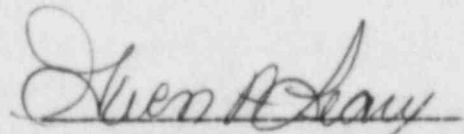
6 THE CHAIRMAN: We would aim for a Lancaster
7 meeting in July.

8 (Adjourned at 11:00 p.m.)
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CERTIFICATE

I hereby certify that the proceedings are contained fully and accurately in the notes taken by me during the hearing of the foregoing cause, and that this copy is a correct transcript of the same.



Gwen A. Leary, Reporter



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Post Office Box 480
Route 441 South
Middletown, Pennsylvania 17057-0191
717 944-7621
TELEX 84-2386
Writer's Direct Dial Number:
(717) 948-8400

4000-85-S208

May 13, 1985

The Honorable Arthur E. Morris
Mayor of Lancaster
P.O. Box 1659
120 North Duke Street
Lancaster, PA 17603

Dear Mayor:

At the last TMI-2 Citizen's Advisory Panel meeting, additional information was requested by the panel to supplement that provided by Mr. Hildebrand.

1. Internal Doses

Information regarding internal doses to TMI-2 cleanup workers was presented for 1984. Data regarding internal doses from the cleanup for prior years was requested. The following table lists the maximum internal doses to cleanup workers by year.

| <u>Year</u> | <u>Maximum Individual Internal Dose (rem)</u> | <u>% of Regulatory Limit*</u> |
|-------------|---|-----------------------------------|
| 1979 | 0.005 | 0.1 |
| 1980 | 0.003 | 0.06 |
| 1981 | 0.003 | 0.06 |
| 1982 | 0.010 | 0.2 |
| 1983 | 0.003 | 0.06 |
| 1984 | 0.007 | 0.14 |

*The regulatory limit for internal exposure to the whole body is 5 rem in a year. The principal radionuclide is Cesium-137

2. Radiation Worker Turnover Experience

The overall TMI-2 turnover rate for radiation workers for the last several years has been about 30-40%. This turnover is principally influenced by the fluctuating contractor work force. The turnover rate of company personnel is considerably lower.

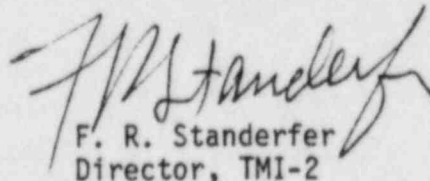
3. Skin Doses

Information on skin doses from skin contaminations for 1984 was presented at the meeting. Data regarding skin doses occurring during the cleanup from prior years was also requested. The following table lists the skin doses to cleanup workers for the period 1979 (post-accident) through 1984.

| <u>Skin Dose Range (Rem)</u> | <u>No. of Workers</u> | <u>% of Total</u> |
|----------------------------------|---------------------------|-----------------------|
| Less than 0.001 | 413 | 70 |
| 0.001 to 0.005 | 128 | 21 |
| 0.005 to 0.05 | 46 | 8 |
| 0.050 to 0.1 | 3 | 0.5 |
| 0.100 to 2.3 | 3 | 0.5 |
| | <u>593</u> | |

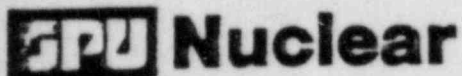
Note: The regulatory limit for skin is 7.5 rem per quarter, or 30 rem per year. The dose from skin contamination is typically to a very small portion of the skin.

Very truly yours,


F. R. Standerfer
Director, TMI-2

FRS/pat

cc: R. W. Heward, Jr.
E. E. Kintner
B. J. Snyder
W. D. Travers



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4410-85-L-0108
Document ID 0249A

April 30, 1985

TMI Program Office
Attn: Dr. B. J. Snyder
Program Director
US Nuclear Regulatory Commission
Washington, DC 20555

Dear Dr. Snyder:

Three Mile Island Nuclear Station, Unit 2 (TMI-2)
Operating License No. DPR-73
Docket No. 50-320
Defueling Schedule Update

In my letter 4410-85-L-0038, dated February 15, 1985, I indicated that a review of TMI-2 project status would be made in April. We have now completed a detailed schedule review of every aspect of the work required to commence defueling. We have arrived at a project schedule which integrates all aspects of preparations to remove fuel, and considers new information developed over the last year. The integrated schedule indicated that we will be able to commence defueling operations in September 1985.

The critical path to commencing defueling is the time required to install and check out, in series, the several parts of the first of a kind defueling system in the restrictive circumstances of TMI-2. Further, we are finding the licensing of the special defueling operators is an original, time consuming process.

We see no reason to change the remaining target dates for the TMI-2 clean up provided in the President GPUN's July 2, 1984 letter to you, and we continue to work towards those targets. We will be making periodic reassessments of TMI-2 program and schedule as we progress and learn more, and we will, of course, keep you fully advised.

Dr. B. J. Snyder

-2-

April 30, 1965
4410-85-L-0108

Let me repeat the assurances in the July 2 letter that "we intend to go forward with the TMI-2 cleanup as rapidly as possible commensurate with required care for the safety of the public and our personnel."

Sincerely,

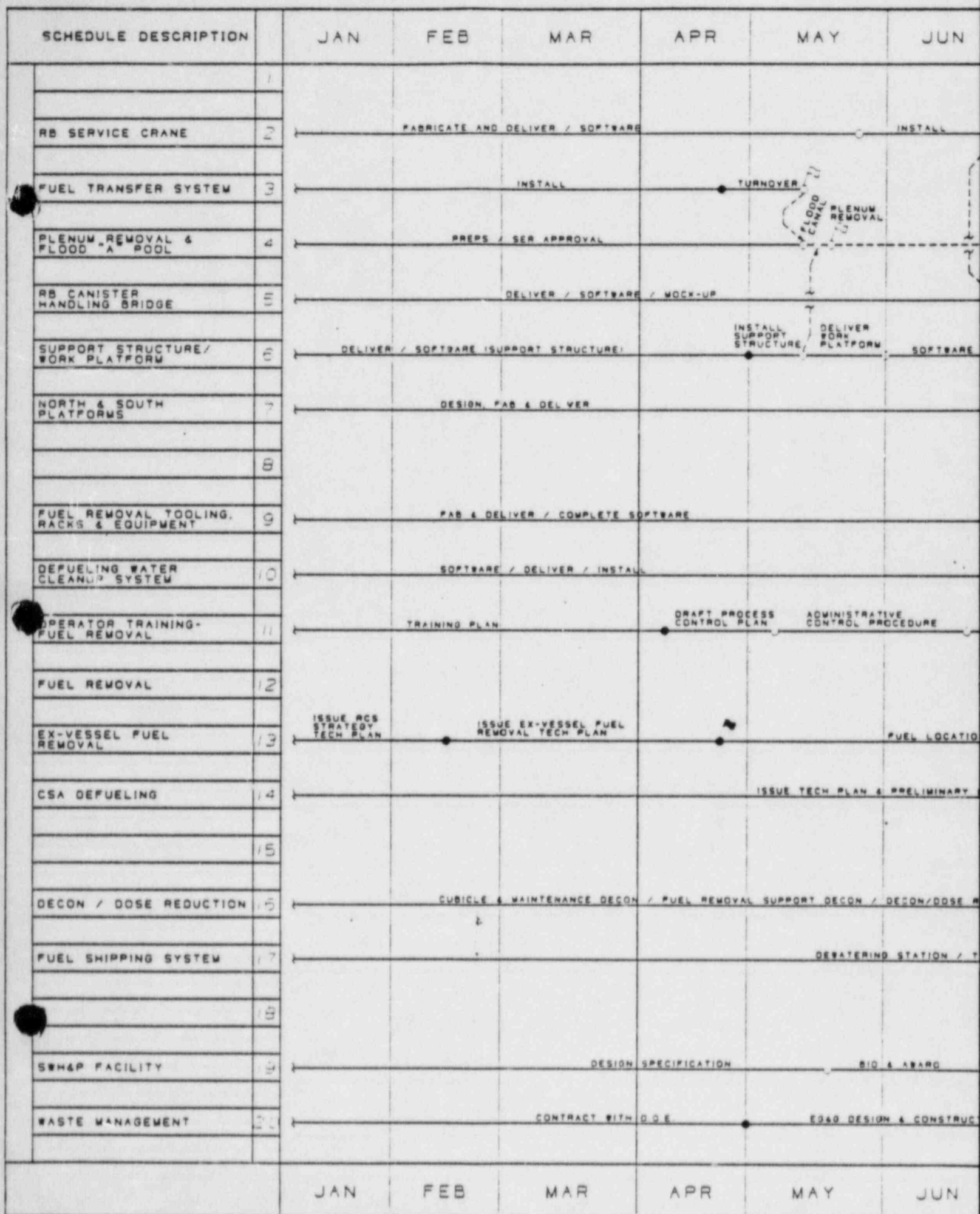
/s/ F. R. Standerfer

F. R. Standerfer
Vice President/Director, TMI-2

FRS/JCA/eml

Attachment

cc: Deputy Program Director - TMI Program Office, Dr. W. D. Travers



JUL

AUG

SEP

OCT

NOV

DEC

LEGEND:

— SCHEDULED ACTIVITY

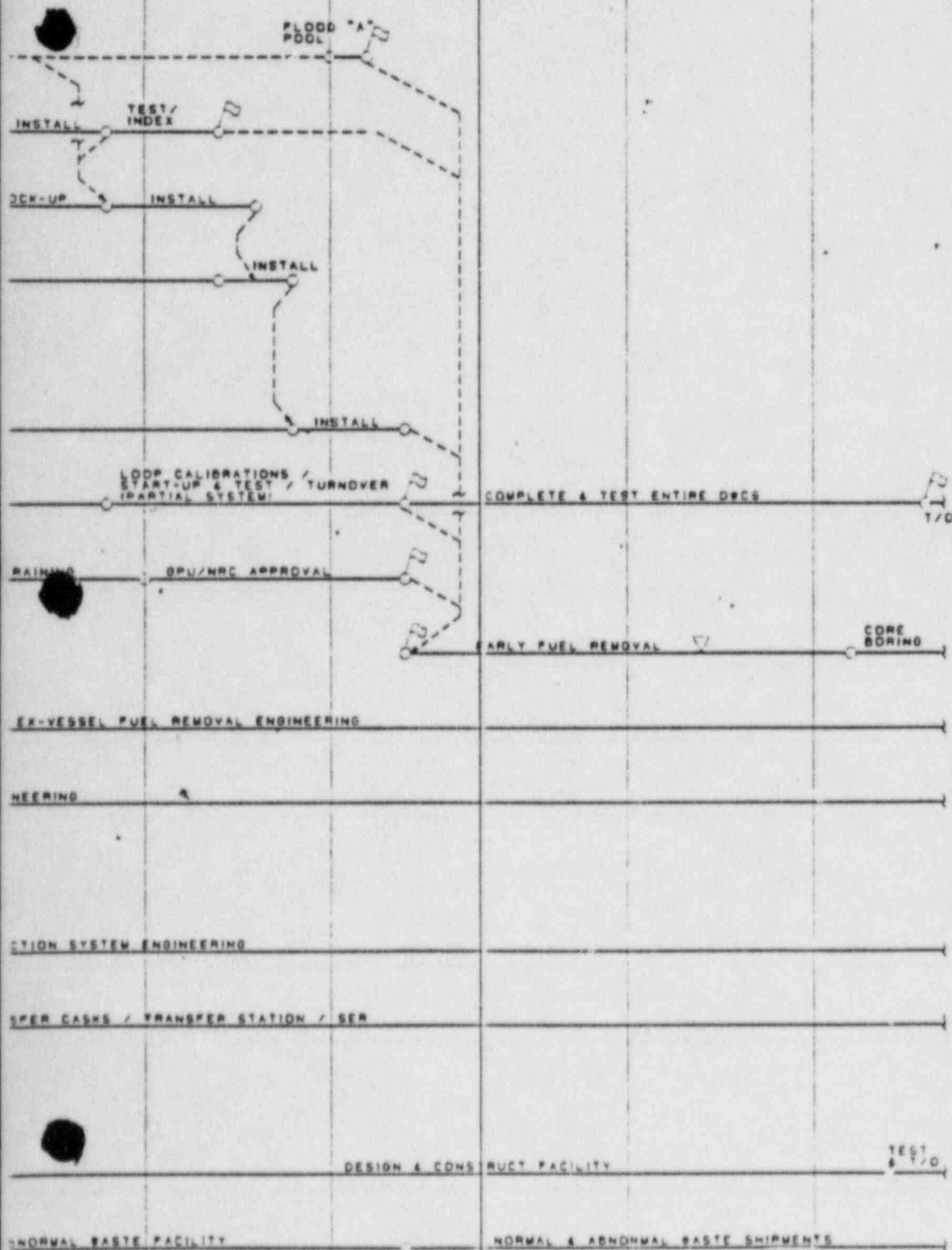
● COMPLETED ACTIVITY

MILESTONE

MANAGEMENT DECISION POINT
REGARDING CORE BORING

MILESTONE DATES

| LINE NO | DESCRIPTION | DATE |
|---------|--|-------|
| 2 | FUEL TRANSFER SYSTEM | 5/85 |
| 3 | REMOVE & STORE PLENUM | 5/85 |
| 3 | FLOOD "A" POOL | 8/85 |
| 4 | RE CANISTER HANDLING BRIDGE | 8/85 |
| 8 | PARTIAL DPCS TURNOVER | 9/85 |
| 8 | ENTIRE DPCS TEST | 12/85 |
| 8 | CERTIFICATION OF FMSRO's | 9/85 |
| 10 | START EARLY FUEL REMOVAL | 8/85 |
| 11 | ISSUE EX-VESSEL FUEL REMOVAL TECH PLAN | 4/85 |



| | | | | | |
|---|---------|---------------|-----|-----|-----|
| 0 | 4/30/85 | ISSUE FOR USE | DLM | 1/1 | 1/1 |
| 1 | 5/1/85 | REVISION | BY | 1/1 | 1/1 |

PROGRAM CONTROLS
DEPARTMENTGENERAL PUBLIC UTILITIES NUCLEAR
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THREE MILE ISLAND UNIT 21985 PROGRAM MASTER
SCHEDULE

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|------|-----------|----------|----------|----------|----------|
| 10 | NO | 10/10/85 | 10/10/85 | 10/10/85 | 10/10/85 |
| 4010 | PMS-85-02 | 1 | OF | 1 | 0 |

JUL

AUG

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Received
5/15/85

THREE MILE ISLAND
PUBLIC HEALTH FUND

1622 LOCUST STREET
PHILADELPHIA, PENNSYLVANIA 19103
(215) 875-3000
TELEX 834-306
TELECOPIER (215) 875-3025

May 1, 1985

Dear Friend:

On April 18, 1985 Judge Rambo of the United States District Court for the Middle District of Pennsylvania approved the expenditure of \$243,033 for a research project designed to investigate the pattern of adult and childhood cancers in the TMI region. The study will last eighteen months and be conducted by Dr. Mervyn W. Susser of Columbia University.

The research project consists of a frequency and distribution study of childhood and adult cancers to locate any unusual frequency in time or proximity in space of cancer cases in the TMI region and an appropriate follow-up study if the cluster analysis proves statistically significant. The cluster analysis technique will permit the identification of so called "pockets" or "outbreaks" of cancer in any local area of the TMI region, and will permit the testing of hypotheses about the causes of such clusters, if identified.

Dr. Susser, the principal investigator, is currently the Gertrude H. Sergievsky Professor of Epidemiology and Director of the Sergievsky Center for Epidemiology of Columbia University. He has extensive international experience and has received several international awards recognizing his achievements.

Copies of the Public Health Fund's petition for funding, the research recommendation, and Dr. Susser's Curriculum Vitae will soon be available from the clerk of the court in Harrisburg and at all public libraries in the TMI region. A limited number of copies will be available from the Public Health Fund, upon request.

Sincerely yours,

Jonathan Berger
Jonathan Berger, Ph.D.
Executive Secretary
Public Health Fund

JB/dcb

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DECONTAMINATION OF THE
THREE MILE ISLAND UNIT 2

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| Commissioner Asselstine | 1149-H | 722 Jackson Place, NW |
| Commissioner Bernthal | 1149-H | Washington, DC 20006 |
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| R. Browning, NMSS | 623-SS | |
| Docket File 50-320 | 016 | Mr. John H. Murdoch |
| PDR | 016 | 44 Kensington Drive |
| LPDR | 016 | Camp Hill, PA 17011 |
| DCS | 016 | |
| | | TMI Alert - c/o Kay Pickering |
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| Department of Natural Resources | | |
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| Ms. Ruth Gentle | | |
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| Mechanicsburg, PA 17055 | | Society of Nuclear Medicine |
| | | 475 Park Ave., South |
| Susquehanna Valley Alliance | | New York, NY 10016 |
| P.O. Box 1012 | | |
| Lancaster, PA 17603 | | Mr. Dave Janes |
| | | Analysis and Support Division |
| | | U.S. Environmental Protection Agency |
| | | 401 M Street, NW (ARN-458C) |
| | | Washington, DC 20640 |
| | | |
| | | Mr. Kenneth L. Miller, Director |
| | | Division of Health Physics and |
| | | Associate Professor Radiology |
| | | Milton S. Hershey Medical Center |
| | | Pennsylvania State University |
| | | Hershey, PA 17033 |

*Hool
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