

1 Tuesday Afternoon Session

2 June 11, 1985

3 4:55 o'clock p.m.

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5 (Present: Messrs. Burns, Rossi, Bell,
6 Beard, Lanning, Shafer, Jackiw, Kosloff, O'Connor,
7 Rowles, Wood, Myers and Wideman.)

8 MR. MYERS: Perhaps before we start, the
9 sequence of events you had generated was put
10 together in a manner of about an hour and a half
11 yesterday at the request of Al DeAgazio to get
12 electronically word processed through our system to
13 get down there at a certain time frame.

14 We apologize for the brevity. We had to
15 yank Stan out of several other things at the time.
16 It's obviously far from a detailed sequence of
17 events. We are working on one, but we haven't even
18 connected with our post-operator review as well as
19 we should have, so we apologize for that. But we
20 made it and got it sent down, but it leaves a lot
21 to be desired.

22 MR. ROSSI: So we will eventually get an
23 updated one that will include a lot of the things
24 that were described to us in the earlier meetings?

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1 MR. MYERS: Absolutely. I think we are
2 shooting right now to get that for our on on-site
3 nuclear review meeting in polished form. So we
4 should have better ones available almost on a daily
5 basis. Everytime we get a new one out, we will
6 have it to you.

7 MR. BEARD: Can you be sure to mark those
8 with at least a date on them.

9 MR. MYERS: I think date and time we are
10 going to end up with.

11 MR. BEARD: Every fire drill I have been
12 on, you need date and time.

13 Are you going to give some opening
14 remarks about change of section?

15 MR. ROSSI: We are now going to talk
16 about the status of the equipment we had problems
17 with during the event and try to tell you I guess
18 or come to some agreement as to what we need to do
19 in order to permit you to start trouble-shooting
20 the equipment and ultimately fixing it and getting
21 it back into service. And we want to discuss that
22 and explore what the proper course of action to do
23 that is.

24 Now, as we understand it right now, you

1 have agreed with the Region to not touch any of a
2 certain set of equipment, the view being to keep
3 that equipment in its current status until we can
4 decide how to on a systematic way go in and find
5 out exactly what was wrong with it and so that we
6 don't lose any of the information that's currently
7 there.

8 I guess what we would like to hear from
9 you probably tomorrow is the status of that
10 equipment, the list of the equipment which you have
11 already -- you have already asked him for a list of
12 the equipment.

13 MR. JACKIW: Yes, we have.

14 MR. ROSSI: And the Region has already
15 asked for a description of what was done with that
16 equipment up until the time that there was
17 essentially this freeze put on it. You have asked
18 for that.

19 MR. JACKIW: That's right.

20 MR. ROSSI: And I gather that list has
21 not been provided to the Region as yet?

22 MR. WOOD: That's correct. And what we
23 would like to talk about, as a precautionary
24 measure, we put essentially a hold on all the work

1 that was remotely associated with the transient,
2 and we would like to review that list that we have
3 had in abeyance at this time and discuss with you
4 whether that is indeed the right set of equipment
5 to hold in abeyance right now. And if there is
6 some direct feedback that we can get, maybe we can
7 get some work released to the people in the station.

8 So I guess that was one of the reasons we
9 asked to have this conversation today was to tell
10 you which equipment we very specifically have on
11 hold.

12 MR. BEARD: I think that we heard I guess
13 an hour or so ago this was a concern and we have
14 had some brief internal discussions about it, and I
15 think Ernie has got some thoughts as to how we
16 might approach this in terms of best allowing you
17 to take loose any or get a hold of any equipment
18 you want to work on, and I think he's got some
19 points in mind that maybe give us some guidance on
20 how to approach the matter.

21 MR. ROSSI: First of all, I think we need
22 to understand why the equipment was -- how it was
23 related to the event and why it was put on the list
24 to be frozen, and presumably that's associated with

1 how it was involved in the event, what you have
2 done with it up till now, what you plan to do with
3 it next, and how you propose to make sure that
4 whatever you do next is done in a carefully
5 controlled manner so that we get a record of any
6 problems that are found and what caused those
7 problems.

8 MR. BEARD: I think documentation of the
9 status of the thing and maybe even in terms of
10 photographs where it might be appropriate or other
11 techniques that you might choose to use to make
12 sure that for equipment that the team could find
13 call it releasable, that we really don't lose the
14 overall intent, which would be to lose some
15 information related to understanding the transient.

16 MR. ROSSI: So where it's just
17 adjustments are going to be made, we need the
18 record of the as-found status of the equipment and
19 then, you know, what was adjusted and where you
20 find an actual equipment malfunction or something
21 broken or something that isn't working properly, a
22 description of what you find, and where applicable
23 we probably ought to have a photograph of it if
24 it's an actual piece of equipment that is broken or

1 severed or whatever.

2 Now, Wayne, you may want to add to this
3 because you are clearly involved in this, also
4 because you are going to be involved along with us
5 in --

6 MR. BEARD: Before Wayne jumps in, let me
7 inject another point we discussed earlier. If for
8 example for a piece of equipment your intent would
9 be to proceed into some mode of trouble-shooting to
10 determine the cause in order that you could
11 establish the appropriate corrective actions, we
12 have heard some discussion about vendor
13 representatives, technical experts who would either
14 be here or would come. It would be very helpful
15 when you put together this information that Ernie
16 just described if you would indicate those
17 activities that would be under the supervision of
18 the, quote, expert, unquote. That would be very
19 helpful.

20 MR. ROSSI: Now, Wayne, do you have any
21 thoughts on guidance that we ought to give to them
22 so that we are assured that you don't lose
23 information as to problems that occurred and were
24 involved in this event?

1 MR. SHAFER: Right.

2 MR. ROSSI: That's our bottom line in
3 where we go next with the equipment is we don't
4 want to lose any information in what you find and
5 problems with the equipment that cause the event or
6 contributed to making it more severe than it might
7 have been if you hadn't had the problems.

8 MR. SHAFER: Any piece of equipment that
9 you identify as failed, broken, something,
10 misoperated, whatever, is to remain in your hands.
11 In other words, it is not to go to the vendor's
12 shop without -- and you may have to do this, but I
13 think you have to sit down with the team and
14 explain very carefully how that's going to be
15 controlled such that it is retrievable.

16 By that, I'm saying for example, you know,
17 if you wanted to take the governor off the main
18 feedpump No. 1 and ship it out to GE, before that
19 happens, I think that's where you are going --

20 MR. ROSSI: We need to talk about how we
21 know its condition before it leaves here.

22 MR. BEARD: I think a big part of that is
23 traceability. You know, we have had some incidents
24 where either information was lost or the

1 traceability of the failed equipment was disrupted
2 to the point where it was not real clear who had
3 the exact one versus a similar one. So it's very
4 important that at least traceability be maintained.

5 MR. SHAFER: Ernie, you may want to,
6 concerning the vendor program, if in fact it does
7 have to go to a vendor's site, dispatching someone --

8 MR. ROSSI: From the vendor branch?
9 That's a good point, yeah.

10 MR. BEARD: I think there is another
11 point too that is probably worth mentioning, and
12 that is there is obviously an interface between
13 this team that the executive director for
14 operations established and normal responsibilities
15 of the Region and the resident inspector.

16 As I understand it, the scope of this
17 team is to determine basically what happened and
18 why, which includes root causes to the extent we
19 can find them.

20 Once the causes are determined, that
21 would sort of be some definition of the interface
22 with this group. The adequacy of the corrective
23 actions to address those causes or those failures I
24 think would probably fall in the jurisdiction of

1 the Region and the residents.

2 But we do see that the primary purpose is
3 to have a trouble-shooting procedure or approach
4 adequately guided with technical assistance from
5 the vendors where it's appropriate such that the
6 root cause can in fact be determined and not lost.

7 MR. WOOD: Do we want to establish a very
8 formal procedure on laying out this documentation,
9 action plans and control and review and approval by
10 the team? Do we --

11 MR. BEARD: My personal feeling is it
12 does not have to have a great deal of formality,
13 but I think it needs to be in writing. For example,
14 I would envision there would be some typed list of
15 the equipment that you basically quarantined, if I
16 can use that term. And besides that or key to it
17 on the next page would be the reason you chose to
18 quarantine that piece of equipment, et cetera, et
19 cetera, et cetera, in some type form that the team
20 can look at it in order to make some reasonable
21 judgment as to whether it could be and should be
22 released at this time.

23 But other than typing so it could be
24 reproduced and is legible, I don't see a great deal

1 of formality myself.

2 MR. ROSSI: Wayne, does that sound
3 satisfactory?

4 MR. SHAPER: I think I agree. Just so
5 it's clearly understood nothing slips up. I would
6 not like to see suddenly a piece of equipment
7 disappear. So the onus will be on you as to how
8 formal you want to set it up for your staff.

9 MR. ROSSI: And I think anything that
10 goes off-site to a vendor, I believe we should tell
11 our vendor inspection branch about it and they
12 should have the option or we should have the option
13 of advising them that perhaps they want to be there
14 when it is looked at at the vendor shop.

15 MR. BELL: I'm sure you want similar
16 controls as to what he's asking for, because I'm
17 sure you don't want to lose the information either.

18 MR. WOOD: That's correct. And part of
19 the problem we are having is trying to understand
20 just what is all involved in this scope, because we
21 have things that may have, for lack of a better
22 word, broke during the transient.

23 For example, we had trouble getting the
24 turbine on turning gear. Now, that seems a little

1 obvious to me that that doesn't belong in the
2 framework of what we are talking about. And yet if
3 I read the CAL, it was equipment that malfunctioned
4 during the incident.

5 And while that is clearly on one side and
6 the MSIVs are clearly on the other side, we have
7 some other equipment that may not be so cut and dry
8 as to what side of the fence they fall on. And so,
9 you know, without some kind of an understanding or
10 agreement, we may be holding up a lot more work
11 than really is intended to be held up.

12 MR. BEARD: I think that, you know, the
13 team would certainly not like to hold you up any
14 more than is absolutely necessary. That's the
15 first thing that ought to be made clear consistent
16 with the objective of not losing any evidence.

17 However, I think that it needs to be done
18 in a systematic way. By that I mean the process of
19 deciding what could be released and what couldn't
20 be. I think your example of the problem with the
21 main turbine on the turning gear is probably the
22 kind of thing if you give us the information that
23 Ernie has outlined here, my personal assessment is
24 that would probably get a very, very rapid release.

1 But I think the decision to make that
2 release needs -- can only be made systematically if
3 the information like he described is presented.

4 MR. WOOD: Okay.

5 MR. JACKIW: I think John is having a
6 problem, should he list everything that has
7 happened, and we make the decision if it affected
8 what was involved in the transient?

9 MR. BEARD: My personal opinion is I
10 understand you folks have a certain list of
11 equipment that you have chosen to quarantine.

12 MR. WOOD: That's right. But the turning
13 gear would not be on that list.

14 MR. JACKIW: That's correct.

15 MR. SHAFER: Maybe we could even get this
16 changed so that what the CAL would be saying was
17 that the equipment that malfunctioned, okay, and
18 that is the equipment that relates to those systems
19 that were involved -- no.

20 MR. ROSSI: We better be a little careful
21 because we can turn up with finding a piece of
22 equipment that we think now isn't related but three
23 days from now we find out it it is related.

24 MR. BEARD: I think that's the whole

1 purpose of the freeze. The decision of what's
2 related and what's not related, it's intended the
3 team would make that assessment and be responsible
4 for that decision. And in other words, I would
5 envision that as a responsible utility, you folks
6 would come up with a list of all equipment that had
7 malfunctioned, put it under quarantine and go
8 through some process like at least for this event
9 like we just described in order to request a
10 release.

11 Because of the question of who makes a
12 decision of what's related to the event and what's
13 not and this, that and the other, it has to be in a
14 very systematic and careful way.

15 MR. MYERS: Probably what we would not
16 have done or would certainly do to a different
17 level of detail, like the turning gear to Aux Feed
18 pump is the area which you said in writing describe
19 the next actions that are going to take place and
20 how the capturing of everything will be guaranteed
21 in the case of the turning gear, our maintenance
22 organization standard trouble-shooting activity we
23 would probably consider adequate. Certainly not by
24 a long shot with the Aux Feed pumps.

1 MR. BEARD: We are not arguing that point
2 at all.

3 MR. ROSSI: You know, one other thing we
4 didn't talk about is on this list, another category
5 ought to be their reasons why something is so
6 unrelated to the event that perhaps it doesn't need
7 to be on the list. If we have your reasons as to
8 why something is related to such a small extent to
9 the event, we don't have to have these controls on
10 it, then we can look at that and deal with that.
11 The turning gear may come under that. Does that
12 sound reasonable to you people from the Region?

13 MR. SHAFER: Yes.

14 MR. ROSSI: It's a little bit of a
15 compromise. There must be a list of stuff you have
16 quarantined, so to speak, that you are prepared to
17 justify as not sufficiently related to the event
18 that we need to maintain tight control over it and
19 we could perhaps dispense with that list. Wayne?

20 MR. LANNING: I'm just wondering, don't
21 you have some sort of formal maintenance work order
22 request you are going to fill out on each piece of
23 this equipment?

24 MR. WOOD: Very definitely.

1 MR. ROSSI: Does that include the turning
2 gear?

3 MR. WOOD: Yes.

4 MR. LANNING: Everything in this plant I
5 suppose is controlled by this kind of work order.

6 MR. WOOD: There is a work request which
7 is transformed into a maintenance work order, and
8 there is no activities done out there without a
9 maintenance work order.

10 MR. O'CONNOR: Other than minor packing
11 adjustments.

12 MR. LANNING: Is it practical this may be
13 one way in looking at the type of activities that
14 is going to take place on this equipment?

15 MR. WOOD: Certainly.

16 MR. SHAFER: How many maintenance work
17 requests are we talking about?

18 MR. O'CONNOR: Right now? You mean just
19 for this event? I'm not sure how many are
20 generated right now. On a guess, just on the
21 systems that we have listed so far that we have
22 quarantined, there is probably 15 or 20.

23 But all we have done is just say nobody
24 can touch the feedpumps; okay? When we actually

1 get to the feedpump, the guy working on the speed
2 control or the governor will have one work order.
3 If somebody else is on the oil system, he will have
4 another work order.

5 So this number of work orders isn't
6 necessarily the key to it. It's just, you know,
7 there may end up being fifteen on the main feedpump
8 alone because each particular shop will have his
9 own work order.

10 I & C has one to do one specific item and
11 that's all they are allowed to do in the scope of
12 their work. In other words, if he gets into the
13 speed control circuit with permission to
14 trouble-shoot the speed pick-ups and he finds
15 something wrong with some other part of it, the
16 high speed stop, he's not allowed to work on that.
17 Another work order is generated to give permission
18 for that. So we do carefully track the work that's
19 done.

20 MR. ROSSI: That will help in tracing
21 through what they find and what they did to correct
22 it too.

23 MR. O'CONNOR: We have to be careful on
24 the documentation on the back side of the work

1 request where the individual worker documents his
2 time and what was actually done. We probably have
3 to be very careful with the cognizant engineers to
4 make sure that is very specific and not, you know,
5 found fuse blown, replaced fuse, back to normal.

6 MR. ROSSI: Made several adjustments.
7 That's what we are worried about.

8 MR. BEARD: System now works.

9 MR. KOSLOFF: It might be of value to
10 consider the possibility of using their
11 computerized program of listing and actually printing
12 out maintenance work orders. That might be helpful
13 in this listing process. I don't know.

14 MR. BEARD: I think all of the discussion
15 I have heard in the last five minutes or so is more
16 of suggestions of possible ways to facilitate
17 providing the types of information that Ernie
18 suggested earlier. And I'm not sure we ought to go
19 too deep into telling you how to do something
20 versus telling you what we think the team would
21 need.

22 MR. ROSSI: We want to make sure that
23 when pieces of equipment that are related to this
24 event are worked on or adjusted, that there is a

1 record kept of the as-found condition so that we
2 can then say we know what the root cause of the
3 problem was. So it's more of a -- you are going to
4 have to concentrate more on having records of the
5 as-found condition than perhaps you would have in
6 the past.

7 MR. O'CONNOR: You are not really saying
8 we cannot work on it right now?

9 MR. ROSSI: No. We are saying we want to
10 see how you are going to do that before you work on
11 it.

12 MR. WOOD: And I don't think we have any
13 problem in handling those systems or those
14 components in that fashion. What we have had
15 difficulty with is understanding this item of
16 putting things in abeyance and just how far that
17 went.

18 And I think the discussion here actually
19 is telling us that it went farther than perhaps we
20 initially implied. Things like the turning gear,
21 I'm not quite sure we would have allowed
22 maintenance activities to proceed on that.

23 MR. O'CONNOR: See, it's already fixed.
24 I had to fix that to get a vacuum back.

1 MR. BEARD: My understanding of the
2 intent of this thing is the team would make the
3 decision of what's related and what's not related
4 in order to assure that there is some independent
5 systematic assessment.

6 MR. ROSSI: We look at your reasoning of
7 why it is not related.

8 MR. BEARD: But I think in the situation,
9 the example you brought up, the turning gear, that
10 would be a very rapid turn-around item. But I
11 think the intent should be the way it is written on
12 the paper and that is anything that malfunctioned
13 immediately before, during or immediately after the
14 transient is the kind of thing you want on the at
15 least preliminary quarantine list.

16 MR. WOOD: I think our quarantine list
17 will have to grow after we leave this meeting and
18 we will get that word back to the station. I don't
19 feel uncomfortable that what we may have done in
20 this interim is anything that would have
21 significant impact, and we can capture what was
22 done on the MWO process. But perhaps the list of
23 activities that transpired until the thing was put
24 into abeyance has increased.

1 MR. MYERS: Why don't you just run down --
2 I think you are making a little more out of the
3 turning gear than needs --

4 MR. BEARD: One other point before you
5 get into the actual list here, we recently had
6 another experience with another B & W designed
7 plant where some equipment was gone into to check
8 something after a failure of a similar piece of
9 equipment just to see if it was all right, and in
10 that situation through the maintenance procedures,
11 trained and experienced people went in and made a
12 measurement which when the manufacturers'
13 representatives arrived on the site the next day
14 they were told it was the wrong way to do things.

15 And the utility I don't believe was at
16 fault in this, but the manufacturer's
17 representative brought additional expertise and
18 additional knowledge to the scene and said that's
19 not the way it ought to be done, but the point is
20 that because he found things out of adjustment as
21 he perceived it by his measurement technique, he
22 then made corrective adjustments and there was a
23 tremendous amount of information lost in a very
24 important safety related system.

1 That was not disastrous, but it would
2 have been extremely helpful to know how this piece
3 of equipment worked. So the reason for relating
4 that incident to you, it's so recent that when you
5 plan on doing trouble-shooting activities on key
6 items and are anticipating involving the vendor's
7 representatives, you may want to consider at what
8 point you bring the vendor in.

9 MR. ROSSI: If you are considering bringing
10 the vendor in, you probably ought to have him here
11 before you touch the equipment because you may lose
12 information because he feels he knows how to make
13 measurements and adjustments and determine the
14 as-found condition and that if your people do it
15 before he gets here, they are not going to accept
16 the validity of what he finds, which is I think the
17 case we have.

18 MR. BEARD: And recognize, we are
19 thinking along the line of the utility is doing an
20 outstanding job; there is no doubt in my mind about
21 that. But the individual who comes from the vendor
22 shop does represent a technical expert in a
23 particular item and so there is that benefit.

24 MR. WOOD: We have no problem with that

1 at all. The list -- I didn't mean to scare anyone
2 here. There are eleven items that we have put on
3 to this list.

4 Very simply, the main feedpumps, the
5 SFRCS system, the Aix Feed pumps, the Main Steam
6 Isolation Valves, SP7A, which is the Startup
7 Feedpump valve.

8 One that we have not talked about, the
9 source range NIs, I don't believe any of your
10 discussions would have covered the NIs. Did it,
11 Bill?

12 MR. O'CONNOR: We had one inoperable
13 prior to the trip and immediately after the trip,
14 one of them was not functioning. It started up
15 when I & C went into the cabinet, but it was an
16 anomaly we couldn't explain.

17 MR. BELL: So you had no source range
18 indication?

19 MR. O'CONNOR: Not for several minutes.

20 MR. BEARD: You have two source range
21 channels at this plant?

22 MR. O'CONNOR: One had been declared
23 inoperable and they were working on it before the
24 trip.

1 MR. BEARD: And the second one happened
2 post-trip?

3 MR. O'CONNOR: Yes.

4 MR. BEARD: Are you intending to include
5 that in your updated sequence of events?

6 MR. MYERS: Yes.

7 MR. WOOD: The next one, the turbine
8 by-pass valve, we have one turbine by-pass valve
9 that broke the yoke off. Now, again, that has not
10 been discussed in the sequence of events, but that
11 was a failure that we will need to correct.

12 MR. BEARD: When did that fail?

13 MR. O'CONNOR: We don't know whether it
14 failed on the trip or when we reestablished turbine
15 by-pass cooling several hours later. It's hard to
16 tell. You know, it could have failed initially on
17 the trip when the valves all went wide open, or it
18 could have occurred when we reestablished cooling
19 later.

20 Right now we don't know when it occurred.
21 Hopefully we can get some sequence of events to
22 figure it out, but right now since we have
23 essentially roped it off and no one has been near
24 it, we haven't been able to track it down.

1 MR. WOOD: The next one was the PORV,
2 Power Operated Relief Valve. Main steam safety
3 valves, I don't think we brought that in the
4 sequence. We had one main steam safety valve that
5 didn't reseal until it was 900 pounds, and we would
6 like to have them reseal before we get to 960.

7 MR. BEARD: You had a valve that
8 misbehaved in the same way the last week or so,
9 didn't you, on a different event?

10 MR. O'CONNOR: We seem to always have one
11 blow down too far at some time or another.

12 MR. BEARD: Is this the same one that
13 misbehaved? I can't tell. There is 18 blowing and
14 you don't know which one stayed open.

15 MR. WOOD: We can tell them -- out of
16 nine of them, we can tell it's in a group of nine,
17 but we can't tell which of the group of nine.

18 MR. O'CONNOR: We know which steamline it
19 was on, but to isolate which particular valve did
20 it, it's virtually impossible.

21 MR. WOOD: And it's a situation where you
22 lift them once and they reseal, you lift them again,
23 they reseal, maybe the third time, maybe the fourth
24 time they lift, they don't necessarily reseal at

1 the same pressure that they did the first two times.

2 MR. BELL: You are not talking about
3 consecutive lifting of the valve. You are talking
4 about maybe this week it works okay, next week it
5 works okay, and the third week --

6 MR. WOOD: I'm saying during the
7 transient, you may lift the set of safety valves
8 four different times in a span of twenty minutes or
9 so.

10 MR. O'CONNOR: When the MSIVs go shut,
11 that's your pressure control. So the 1050 reliefs
12 lift the most. But the hotter they get, they seem
13 to lift earlier and earlier and earlier.

14 MR. BELL: When you establish feedback
15 steam generator, did the safties lift again?

16 MR. O'CONNOR: No.

17 MR. WOOD: We then have valves AF-599 and
18 608, which they are actually part of the Aux Feed
19 water system, but we bring those as a specific line
20 item here. And then we have the SBDS system which
21 had some problems in transmission.

22 MR. BEARD: Would you repeat that.

23 MR. O'CONNOR: The SPDS.

24 MR. BEARD: Safety Parameter Display

1 System.

2 MR. O'CONNOR: Safety Parameter Display
3 System. And that is the list of equipment that had
4 malfunctioned or anomalies associated with them
5 that we felt were even potentially involved with
6 the flow of events.

7 MR. BEARD: I could see that, you know,
8 without having reviewed it, that some of the items
9 on that list could have the potential for very
10 rapid release.

11 MR. MYERS: What I wrote down was
12 essentially what we need to do is, especially in
13 those areas where we could proceed rapidly would be,
14 like you said, identify the equipment and its
15 possible connection to the event, why we could
16 consider it -- or why we did consider it frozen,
17 and then in the area, some nonrelated areas, try to
18 justify some complete release, you know, early on,
19 and in those cases where we don't, then go into
20 exactly what actions were taken during shutdown,
21 the documentation to date, and then develop in each
22 case the plans for future activity and the
23 procedural control of as-found conditions and any
24 changes thereto.

1 I think we will probably have to use
2 procedural control. I don't really know any other
3 mechanism that we can could -- administrative
4 control mechanism that we could use that would
5 provide us the -- more of the guarantee that we get
6 all that stuff back.

7 MR. ROSSI: That you get the information
8 on the as-found condition of the equipment?

9 MR. MYERS: Yeah.

10 MR. BEARD: I think any time you start
11 talking about a fact finding trip like this and a
12 freeze order on plant equipment, any plant trip you
13 will talk about, there will be a few pieces of
14 system that happen to fail coincidental that aren't
15 related to the transient. I think it's unfortunate
16 we have to include those in the umbrella, but I
17 don't see any way around it myself, and I'm sure we
18 will try to work and get you as quick a release as
19 possible.

20 MR. MYERS: You will be involved in the
21 operator interviews. Probably by that time, by the
22 completion of those, you will have essentially
23 Jacque Lingenfelter's, the technical section's
24 evaluation of the sequence as they knew it, the

1 operational aspect of the sequence as we knew it,
2 and the operators' interface. Probably by tomorrow,
3 midtomorrow, we could come in with a couple of the
4 areas we thought would not be related and you would
5 have a pretty good drawing of the line down what
6 you are interested in and what you are not interested
7 in.

8 MR. ROSSI: I think that's pretty much
9 the way we saw things when we have discussed them
10 amongst ourselves.

11 MR. MYERS: We would bring these in with
12 a level of documentation just to try to justify
13 those.

14 MR. SHAFER: May I ask, is the list of
15 work activities that was conducted prior to the
16 request, the hold, is that list being made up?

17 MR. WOOD: Yes, it is.

18 MR. BEARD: Do you have any idea what
19 sort of time frame we are looking at for receiving
20 that list?

21 MR. WOOD: Right now I don't have a good
22 handle for it. I talked to the maintenance
23 engineer earlier, and he indicated several items
24 were done. I don't know that the entire scope is

1 wrapped up. We can find out very early tomorrow
2 when that would be complete.

3 MR. SHAFER: One thing that would not
4 show up on there would be in fact that work was
5 accomplished on the two valves 599 and 608 in that
6 they were manually opened during or right after the
7 incident.

8 MR. WOOD: That's correct.

9 MR. BEARD: I know that would be part of
10 the sequence of events.

11 MR. SHAFER: Absolutely. But in
12 recognizing I think we qualified that very carefully
13 by saying, and you did this morning, that with
14 regards to plant safety the decision is made they
15 have to do something with that equipment, then they
16 should do so.

17 MR. WIDEMAN: I don't know they did any
18 maintenance on it. All they did was take it off
19 the back seat so the valve would open.

20 MR. MYERS: What JT is saying, we will
21 show that in a sequence of events manually opening.

22 MR. BELL: But we would need to know if
23 they went into the two valves and found the torque
24 switches were set too low and couldn't work off the

1 closed seat, because the torque switches took the
2 motor out of service. We would need to know that,
3 I think.

4 MR. WIDEMAN: I would think that would be
5 part of the evaluation. We identified it as a
6 problem, and if we do an evaluation and determine,
7 you know, that the switch settings were either too
8 high or too low and they need to be adjusted, that
9 would be the corrective action to prevent
10 recurrence, which we would get your concurrence on
11 and then do the activity.

12 MR. BEARD: Does that give you some
13 resolution of the question you brought in of
14 getting relief on this?

15 MR. WOOD: I think that gives us a good
16 direction. I think it does put in abeyance more
17 perhaps than we had anticipated originally, and I
18 think there was some misunderstanding maybe on our
19 part, like again to use the turbine turning gear,
20 for instance, I think we have been working on that
21 or would have worked on it. I don't know that we
22 have actually done work, but it's my understanding
23 that should be on the list.

24 MR. MYERS: I think there will be very

1 few items. By tomorrow when we are ready to take a
2 crack at it, we will list any others that would
3 have ever fallen into that category. I don't think
4 there is any.

5 MR. JACKIW: John, I think you might
6 consider maybe some of the maintenance procedures
7 that when you actually get into some of the work on
8 equipment that malfunctioned, maybe have some kind
9 of a special order attached to the procedure for
10 the maintenance procedure for the people and just
11 make them aware that if they find any problem, the
12 as-found condition, they need to follow some sort
13 of control of documenting it.

14 MR. WOOD: I think we can put some hold
15 witness points that will trigger that type of thing.

16 MR. BEARD: I think also from what I hear
17 you might have some procedures for certain
18 adjustments that are considered not safety related
19 and not involved that usually you do in a less
20 formal manner than a tech spec or safety related.
21 What you might consider, because they were related
22 to the event, treating them temporarily as with all
23 the tender loving care you would as if it were say
24 a tech spec or safety related item this one time.

1 But that's really up to you folks. I'm just
2 throwing it out as a thought.

3 MR. ROSSI: I think that's probably all
4 we can talk about right now. We are going to talk
5 some more amongst ourselves now that we heard what
6 you have to say so we will be better prepared to
7 address this issue as we proceed along.

8 MR. WIDEMAN: I guess I have a question
9 that's aside from this issue as far as like these
10 meetings go. Maybe I missed it in the beginning.
11 Are these transcripts going to be available to us?

12 MR. ROSSI: Yes.

13 MR. WIDEMAN: Okay. I was wondering
14 whether or not -- I'm trying to write some of this
15 stuff done -- should I bring a tape recorder.

16 MR. BEARD: Recognize also there is a
17 turn around time in getting the transcript.

18 MR. ROSSI: Two days.

19 MR. BEARD: If you need something tonight
20 or shorter than that turn around time, notes
21 probably are appropriate.

22 MR. ROSSI: I'm taking some notes on
23 things that I want to -- I mean, you know, you are
24 going to have to take notes because the notes are

1 probably what you are going to mostly rely on, and
2 you will go back on the transcript to make sure
3 your notes are right or if there is a question on --

4 MR. MYERS: Steve had been given
5 direction to take copious notes, and I think he's
6 looking for --

7 MR. WIDEMAN: -- a way out.

8 MR. MYERS: A borderline condition.

9 MR. ROSSI: The nice thing in having the
10 transcript, it's a way out from us taking copious
11 notes.

12 MR. BEARD: Try to hit for the big stuff
13 instead of all the details.

14 MR. ROSSI: It helps considerably.

15 (Thereupon, a recess was taken at 5:35
16 o'clock p.m.)

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