

1 understanding of the motor's characteristics have
2 been factored into the analysis using the latest
3 industry software, which is validating the results
4 to ensure electrical distribution meets its safety
5 function.

6 And that is ongoing with a plan to
7 support initially our mode change for the pressure
8 testing. We talked about a mid June time frame
9 for having that available, hoping maybe earlier
10 because we have applied a number of electrical
11 engineers to the project.

12 We have changed the project
13 structure somewhat at the site from what you may
14 have -- those of you who have been there may have
15 seen. We brought our electrical superintendent
16 from the Menkins organization, Dave Hemmling, and
17 assigned him to head up this project, manage this
18 project. He was a previous ~~RSO~~ SRO at the site and is
19 very well acquainted with the operation.

20 Training, for example, has been one
21 of his jobs in the past, so there is good
22 leadership. We have also bolstered the team

1 composition of electrical engineering supervision
2 from Stone & Wester as well as several electrical
3 engineers to help with the data input process.

4 We are hoping all the changes are
5 accelerating and, again, we should start to see
6 preliminary results this week. One of the pieces
7 of the electrical distribution system we didn't
8 touch on is the DC systems, ~~225~~ 125 and 250 DC. There
9 are calculations being prepared there as well to
10 upgrade the design basis in that system, and that
11 is battery loading calculations and capacity fuse
12 coordination calculations are going well. They
13 are characterized as no problems with the system
14 being found through that process, but the
15 calculations are being prepared, for the record,
16 so that the design basis is upgraded.

17 MR. PASSEHL: Just a question on that. Do
18 you anticipate any modifications you are going to
19 have to make to the plans a result of this
20 electrical distribution problem?

21 MR. POWERS: There is none currently
22 identified that we know of resulting from this

1 analysis. We are making some changes in the
2 electrical distribution system. One of the issues
3 that we had that we were actually doing
4 modifications on this week is under voltage relay
5 setpoints and setpoint tolerances associated with
6 that.

7 We found that the installed relays
8 did not have a setpoint tolerance capability that
9 would match the need in the plant, and I think we
10 need the tech spec requirement for that,
11 particularly the nine we are checking the relays
12 out to a different type, and that was really
13 separate from this issue of low voltage, so the
14 answer is no, we don't see any modifications yet.

15 I would hope I would be able to
16 report in the next weekly status update to you
17 what our status is on those preliminary results.

18 MR. GROBE: My flight was canceled Monday
19 morning and I missed the ROP meeting, but I was
20 reviewing the notes from that meeting on the plane
21 coming back this morning, and it seemed to
22 indicate in the discussion on this issue that

1 there may be some operability determinations that
2 are made for Mode 4 different than the other
3 modes?

4 MR. POWERS: Right.

5 MR. GROBE: Could you explain that a little
6 bit?

7 MR. POWERS: The plan that we have to
8 approach this problem is several stages, actually
9 three stages, the first of which is to provide an
10 operability determination basis to allow the mode
11 change to Mode 4. And the reason for that is so
12 we want to proceed to Mode 3 and do the pressure
13 test of the plant that we have described. And
14 that operability determination is based on the 70
15 largest, most significant loads in the system
16 being factored into the model and looking at the
17 results of the models, providing engineering
18 technical basis on that analysis to support the
19 Mode 4 change.

20 Subsequent to that, the team is
21 going to be continuing to factor and validate all
22 loads on the system, as you get down into very

1 small loads, small motors and such, and all that
2 is going to be factored in for the next
3 operability determination, which would be to
4 support the Mode 2 change.

5 So at that point we will have to
6 look at the calculations completed with the loads
7 validated, and subsequent to that, the third stage
8 is the documentation of the total analysis, all
9 calculations laid out, what we call all the road
10 maps associated with it, and laid out for the
11 engineers to encapture and record all the details
12 provided in that. So it's three different levels
13 that we've got laid out, Jack.

14 MR. GROBE: I will have to say, I don't
15 understand what you just said, but I'm not sure I
16 can understand it in this context, it's going to
17 take some discussion. But even though you have --
18 might have a small load on the system, when it
19 comes to ~~breaking~~ breaker fuse coordination, it's really
20 irrelevant if whatever isolates that small load is
21 not properly coordinated, how can you conclude
22 that 4160/480 volt systems are operable since if

1 you are not coordinated, you might have a higher
2 level breaker open and take away a number of
3 those?

4 MR. POWERS: Well, we think from the work we
5 have done today, that the 70 loads that are being
6 factored in are going to give us a good picture on
7 the capability of the system, and, you know, we
8 will get into details with the coordination.
9 You're right, I'm going to have to get my
10 electrical team to give a brief --

11 MR. GROBE: And they probably shouldn't talk
12 to me, they should probably talk to Rob.

13 MR. POWERS: That's fine. We've got that
14 laid out with logic and rationale, how we are
15 going do this.

16 MR. GROBE: Again, I appreciate your logic
17 for terminal voltage issues, but I don't
18 understand breaker fuse coordinations, don't
19 understand your logic, and Ron I'm sure can get
20 into a lot more detail with you folks.

21 MR. LEIDICK: The impression is if we have a
22 weak link in the system and understand where those

1 are and how those go down through, to approach it
2 that way, and then if you identify where the weak
3 links are, then you can press on with the rest of
4 it. That's my understanding of the issues, but
5 let us follow-up and get the right people together
6 in conversation.

7 MR. GARDNER: Sure.

8 MR. POWERS: And some of the discussion we
9 have had is with these initial runs, and not only
10 give us the voltage distribution, but we will find
11 a load flow, and that will factor into a sense of
12 the breaker isolation qualifications coordination,
13 so I believe that the engineers think that we will
14 have a first cut at that from these initial
15 70-load runs, Jack.

16 We will provide you with details on
17 that and have a dialogue.

18 MR. GARDNER: Yeah, I'd like to have that.
19 Usually you define your fault currents and plot
20 your fault currents and breaker currents
21 characteristics which are fixed based on the
22 breaker type and fuse type and cable type, and you

1 take a look at what you've got, so it would be

2 interesting to have a dialogue.

3 MR. POWERS: Okay.

4 MS. LIPA: At what point -- I have a

5 question about process, and I want to make sure

6 I'm clear. It sounds like what you're talking

7 about is an operability evaluation for Modes 3 and

8 4.

9 MR. POWERS: Uh-huh.

10 MS. LIPA: So you have learned that you

11 would need a tech spec change that would be

12 allowed in the process.

13 MR. POWERS: We don't believe it would be a

14 tech spec change. At this time the plan was for

15 an operability determination.

16 MS. LIPA: For that 70 loads, that's all you

17 need to consider?

18 MR. POWERS: For the system, that would give

19 us an adequate sense of the system's performance

20 capability. We'd be able to determine what would

21 be operable.

22 MS. LIPA: That's all the equipment that's

1 required to be operable for Modes 3 and 4?

2 MR. POWERS: That's right, that's right.

3 Although I believe that analysis would be heading

4 towards all modes, it's not necessarily restricted

5 to those modes, so in that I will need to get more

6 detail to you on the structure of that operability

7 determination.

8 MR. GROBE: Now I'm confused. That was a

9 little different than what I thought I heard. The

10 smaller loads are loads that you don't need for

11 Modes 3 and 4, are those going to be isolated

12 then?

13 MR. POWERS: Not necessarily, Jack. The

14 loads that -- the 70 major loads are the biggest

15 loads that would affect the voltage of the system.

16 The smaller loads can -- perhaps would be needed

17 during Modes 3 and 4, but we are judging the

18 performance of the system based on the 70 biggest

19 loads which would affect the voltage the most.

20 MR. GROBE: That's what I understood you to

21 say earlier.

22 MR. POWERS: That's what I meant.

1 Any other questions with the
2 electrical distribution system?

3 (No response.)

4 MR. POWERS: The next topic to discuss is
5 air-operated valves. This was a program that was
6 initiated during the course of the past year
7 similar to the industry at many sites.

8 As an industry, we went through
9 motor-operated valve programs where the design
10 basis for the valve the in areas such as the
11 pressure differential that they needed to function
12 with as well as the electrical supply and voltage
13 to the valves was detailed out in the design
14 basis.

15 We are doing a similar program for
16 our air-operated valves, determining the pressures
17 they need to work against, as well as the
18 pneumatic air supply conditions that they have and
19 their actuator capabilities.

20 And there is a number of factors
21 that go into this, not only air pressure that is
22 available, but other things can become an issue,

1 and the overall functionality is assessed in great
2 detail in design calculations, and 83 valves at
3 the site were analyzed. These are our active,
4 safety significant valves that were put in our
5 program, similar to the issue initiatives
6 consistent with those initiatives.

7 And as a result of the analysis
8 that we went through, we found that there were 19
9 valves that had negative margin, meaning the
10 actuator -- based on the conditions that were
11 defined in our analyses, the actuator would not
12 have enough capability to ~~stroke~~ stroke the valve fully,
13 at least with the margins that we feel are
14 necessary to be satisfactory. And so as a
15 consequence, during the current outage, there was
16 seven valves that we are adjusting prior to
17 restart, and there is 12 valves that are going to
18 be modified.

19 And modifications consist of things
20 like stronger springs within the valve, multi-port
21 solenoid valves that pour the air more effectively
22 to and from the actuator. And probably there is

1 one valve that -- which I would describe is the
2 most significant valve, which is the makeup 3
3 valve, which is part of the makeup let down line.
4 it's a containment isolation valve. On that one
5 we are upgrading both the actuator and the valve
6 body itself. And that modification is ongoing
7 now. The actuator is being manufactured, we have
8 a valve body at the site. We expect all that work
9 to come to fruition on the 24th of this month. So
10 it's very active, and we are in the process now of
11 issuing design packages to the maintenance staff
12 at the site to make these valve modifications.

13 There are ten valves in the
14 population that we feel we want to increase margin
15 to. We had our program criteria, and this is
16 margin above the -- with a minimum required to do
17 the safety function, and that currently the plan
18 is restart activity, and then 54 of the valves
19 demonstrated sufficient margin.

20 MR. GARDNER: When we are talking about
21 margin increase, are we talking about that there
22 is uncertainty that the air-operated valve would

1 function, or that there is a feeling that its
2 timing would be affected, and the timing of the
3 function may be delayed, is it not working at all,
4 or is it just that it will function, but it may
5 not function at the time that was estimated?

6 MR. POWERS: It would be the latter. It
7 would function, but there were concerns about the
8 timing as well as I think in the industry in these
9 programs there is margin that accounts for changes
10 in friction and to provide further margin above
11 the minimum to ensure it would work. So the
12 timing of the function, how quickly it would
13 function would be the way I'd characterize it.

14 MR. GARDNER: These affect numerous systems,
15 right, important systems I assume also are part of
16 numerous systems, including important systems?

17 MR. POWERS: Right. They are, as Bob
18 described this, there is several of them that are
19 involved in the component cooling water system,
20 and those can connect component cooling water, but
21 also air flow to the heat exchangers so the heat
22 system is involved. These are the ones where we

1 have calculations that have been prepared, and we
2 believe that they will demonstrate adequate
3 margin.

4 MR. GARDNER: Okay.

5 MR. POWERS: Several hours are in different
6 systems containment isolation valve, for example,
7 that need to be have their actuators upgraded.

8 MR. GARDNER: I guess my point is that in
9 the -- previously I think you mentioned that in
10 other areas margin has been reduced, that's been
11 something that you have noticed throughout the
12 ~~plan~~ plant, that margin has been reduced, but typically
13 things tend to function okay, even with the
14 reduced margin. That is something we are looking
15 at on a system basis as the cumulative affect on
16 reduced margins, to see it as an AOV margin which
17 is minor, but it's less than desired, but
18 acceptable, it doesn't interact or contribute
19 synergistically to other margins that have been
20 affected, such that the system overall is being
21 negatively affected?

22 MR. POWERS: I would say in each case the

1 margins that are built into the programs, the
2 codes that are used to design the systems
3 encompass, you know, the synergistic or collective
4 affect that you have by changing -- if you need
5 the code allowance for the system, the margin is
6 already built into that, such that even meeting
7 the code allowable without excess margin, you have
8 already inherently built in capability.

9 The same thing would be the case
10 with these AOVs. When you meet program margins,
11 we have inherently built in additional margins, so
12 I think on -- in the sum total we have got margin
13 in the plant for that type of consideration.

14 MR. HILLS: The margin you are talking about
15 as far as the ten valves you are going to increase
16 the margin to meet the program requirement, does
17 that mean the valves then as they exist today have
18 enough margin to meet all licensing basis of
19 N.R.C. commitments?

20 MR. POWERS: Yes.

21 MS. PEDERSON: On the 19 valves that had
22 negative margin, have we covered each of those in

1 the previous discussions as far as impacts, or are
2 there some others that we haven't talked impacts
3 yet?

4 MR. POWERS: There is others that we haven't
5 talked impacts. Several of them are isolated --
6 containment isolation valve locations. For
7 example, there is containment isolation valves,
8 those actuators needed to be upgraded. There is a
9 valve that is a reactor cooling on the pump seal
10 return containment isolation valve, there are 12
11 valves that are isolation valves, steam generator
12 system, and there is also temperature control
13 valves for return piping which will perform
14 isolation valve function. And each of these, as
15 we have determined, there is an operability issue
16 with them. We have been issuing LERs. There is
17 several of the valves that have been documented.
18 In fact, one of the commitments that we had early
19 on last year, based on several AOVs that we found
20 fell short of the requirements. We have committed
21 to complete this program prior to restart.

22 MS. PEDERSON: Have you finished your

1 reviews such that we have all the LERs we had
2 expected to see from AOV reviews, or are there
3 still some ongoing?

4 MR. POWERS: I believe we have documented
5 them all in LERs, but I'd have to ask engineering
6 one more time to be sure. The list that I have
7 described here is, as we know the scope we have
8 done the calculations, but I want to make sure
9 we've got it thoroughly documented with LERs where
10 necessary.

11 MS. LIPA: On the AOVs, have you shared what
12 you learned here with your other FENOC sites and
13 have confidence that there is also not problems at
14 other FENOC sites?

15 MR. POWERS: I believe we have shared it
16 with the other FENOC sites. I know our AOV -- in
17 fact, Kenny came from our ~~Gary~~ Perry site to work at
18 Davis-Besse several years ago, so there is a
19 pretty strong link with the engineering system
20 between the two sites, and also sharing of
21 information similar to the AOV areas,
22 motor-operated valves area, but I will go and

1 check on that one too to make sure we have got a
2 dialogue going. I'll make sure it's strong.

3 MS. LIPA: Okay. Thank you.

4 MR. PASSEHL: I had a question on the
5 adjustment to the seven valves you mentioned. I
6 guess, are you waiting on plant condition to do
7 that work, or I assume that is one of the
8 significant work compared to modifying valves?

9 MR. POWERS: That's right. Given the
10 priorities at this point are to ensure that valves
11 can work once adjusted with its increasing to the
12 program, the program standard, you know,
13 expectations for margin, and the engineers right
14 now are focused on modifications that are required
15 and adjustments that are required to perform
16 safety function. And following that they will go
17 through the next set of increasing margin on those
18 that need the full program to perform so the
19 system conditions will dictate much of that.

20 MR. PASSEHL: Thank you.

21 MR. FARBER: Thank you, Jim. Most of what
22 I'm hearing right now seems to focus on whether or

1 not the valve will perform a function under a
2 given condition, whether it's got enough thrust to
3 close against a flow or a ~~DM~~ DP. My question is, is
4 there anything in this program that's going to
5 address the other functionality requirements, for
6 example, of the back-up accumulators that provide
7 air for -- in this case nitrogen for the valves?

8 MR. POWERS: There is several valves that we
9 are increasing or augmenting the accumulator sizes
10 on, Marty, the service water 1356, 7 and 8 series
11 valves are -- there is a set of those. And there
12 is also the component cooling water valve we have
13 talked about, which will provide additional
14 accumulators there so the pneumatic supply is part
15 of the assessment.

16 MR. FARBER: Thank you.

17 MR. POWERS: We can move on to the next
18 topic. This topic we touched on earlier, the load
19 analysis for the engine was not updated, and when
20 we did our SFAS testing we recognized that we have
21 not met our license in particular for voltage
22 depth and time frame of the voltage dip as well as

1 frequency specifications that are included in the
2 design standards that we adhere to.

3 And as I described earlier we have
4 prepared a detailed model of the diesel
5 generators. We benchmarked that actual field test
6 performance of the diesel generator voltage and
7 frequency, and then we have used that model to
8 predict overall engine response that would be
9 given in the full accident loading and have taken
10 the results and looked at all the supply loads to
11 assure that they will perform their safety
12 functions, and we found satisfactory results
13 there, so there were no modifications required in
14 the plant to address this issue.

15 Although, we talked earlier there
16 are some improvements that we are looking to make
17 in the future with the governor system and
18 potentially the diesel generator output breaker
19 from an extent of condition standpoint.
20 Maintaining our analysis up-to-date was one of the
21 lessons learned, significant lessons learned that
22 we have taken from the past years activities at

1 the site. Our latent issues reviews and system
2 health reviews pointed out similar to what was
3 done.

4 And I will talk on the following
5 topic, design base validation program that had
6 been done and calculations maintenance are
7 important. There had been a practice of many
8 disciplines in the past at the plant, when small
9 changes were made, do that assessment against an
10 existing calculation for that change, document the
11 assessment and move on.

12 The problem becomes, as time passes
13 and several assessments are done, the cumulative
14 affect needs to be assessed and incorporated into
15 the calculations, so the engineering has a full
16 picture on what the cumulative effects of changes
17 have been, and in many areas that needed to be
18 done. The diesel generator loading is an example.
19 The electrical distribution system is an example.

20 Ken Byrd's area with the -- what we
21 would call the safety and accident analysis for
22 the plant, we have done substantial work and we

1 have talked about with you in the past for things
2 leading from our ultimate load sink temperature,
3 the plant's cooling system, all the way to
4 containment performance, and many of our more
5 safety significant calculations have been upgraded
6 through this process to latest industry standards
7 and latest design status of the plants.

8 And in Ken's area, he's has managed
9 well to get -- the vast majority of his
10 calculations have been completed in his area. The
11 electrical area we are still working to complete
12 those calcs, but from an extent of condition, the
13 calculations and upgrade process has been very
14 active at the site, and are progressing through
15 the significant calcs.

16 MR. PASSEHL: I just want to be clear on one
17 thing. Your diesel generator ventilation is not
18 significantly undersized, although you are going
19 to add margin, two additional fans; is that
20 correct?

21 MR. POWERS: Well, not exactly. I wouldn't
22 characterize it as not being undersized, it is

1 undersized and has been from the day that we
2 evaluated. During the tornado of 1998 that struck
3 the site and took the off-site power out of the
4 system, the site operated on the diesel
5 generators. The room temperature was high, and
6 subsequent assessment of that led to concerns for
7 the lifetime of some of the electrical components,
8 particularly realized the cabinets in the rooms
9 and temperature in the cabinets where the engines
10 are running in the long-term, we do need to
11 increase the ventilation to the room, we want to
12 do it for the sake of the margin.

13 At the time this '98 assessment was
14 done, that proceduralized a tracking of the amount
15 of time that the room temperature was elevated and
16 that factored toward a change out, so it was more
17 of a lifetime -- qualified life issue than a
18 operability issue as we are finalizing our
19 assessment of that, that continues to today, that
20 that is the technical characterization of that
21 issue.

22 Nevertheless, there is three

1 modifications that we are currently pursuing for
2 those rooms to increase margin. The first is
3 insulating the exhaust manifolds on the engine,
4 and that design package is nearing completion,
5 should be issued this week. Insulation is on
6 order for that that is going to cut the
7 temperature in that room by a number of degrees.

8 The second one is providing
9 ventilation ductwork to the control panels that
10 house the electrical equipment to make sure the
11 temperatures are minimized in those panels. That
12 is important because in the testing of the site we
13 identified 40 degree temperature rises in the
14 outside panel to the inside of the panel. So it
15 gets hot inside the panel, and simple, small
16 ductwork changes can help alleviate that.

17 And then the third modification we
18 are pursuing is installing additional large fans
19 that we have secured from our Perry facility.
20 These were nuclear safety grade fans that had been
21 procured and installed for Unit 2 at that site,
22 and are no longer necessary as Unit 2 has been

1 subsequently abandoned, so we have brought those
2 to the vendor for refurbishment. That's where I'm
3 going now for modification, to install those in
4 the room, and the plan is to have those operate
5 based on temperature thermostat, and as room
6 temperature rises, the fans would kick on and
7 provide additional air coming to the room. Once
8 we have reached that stage, we think we will have
9 good deal of margin in the capabilities, but as it
10 is now the HVAC system does not have the margin it
11 needs.

12 MR. GARDNER: Also, it sounds like the HVAC
13 system would limit your options as far as going to
14 a new, more sophisticated governor that might have
15 solid state components.

16 MR. POWERS: Right.

17 MR. GARDNER: With the relay, the old
18 analogue type has lots of forgiveness there on
19 temperature, and with your weak link analysis I
20 would say, you know, the relays might be the
21 culprit or the most susceptible component. If you
22 change to a new system, that could change

1 dramatically.

2 MR. POWERS: That's a good point, and
3 another good reason why it's better to build
4 margin into the plant, allows us more flexibility
5 for the future and resolves the problem
6 effectively rather than simply analyzing them. So
7 that's where we are on this particular one.

8 So we have a lot of work we want to
9 do in the emergency diesel generator rooms, and
10 that is going to occur after the pressure test we
11 currently have planned, and we refer to this as
12 divisional outages. The diesel generator trainees
13 go into the room and do maintenance on it, we are
14 looking for everything down to the oil leaks to
15 make sure that those have been resolved, the
16 ventilation system is upgraded.

17 In the past weeks, we have also
18 been moving towards doing a ~~ceding~~ coating project, went
19 in the room to upgrade the ~~ceding~~ coating on the wall and
20 floor to bring it up to high standards for the
21 future, so there is quite a bit of work we want to
22 do in the area to upgrade.

1 MR. PASSEHL: So the diesel generator, then,
2 is -- as far as outside air temperature, you are
3 operable up to 85 degrees from Motor 5 and 6?

4 MR. POWERS: That's right, currently
5 operable to 85 degrees. Then we are pursuing new
6 modifications that will allow that temperature to
7 rise ultimately back up and actually beyond the
8 license basis for the plant, which I think is 86
9 degrees outside temperature.

10 So each one of the modifications
11 have progressively more -- cover more margin up to
12 full capability.

13 MR. PASSEHL: Thank you.

14 MR. POWERS: So in conclusion, on the
15 remaining design issues, as we have discussed,
16 they are -- given the amount of work we have done
17 for review, these are four of the more significant
18 issues that we are dealing with on the site, and
19 resolving. Each one of them has a resolution path
20 that's been defined and is doable, and so none of
21 them are showstoppers, and we are working through
22 them and the schedule supports our current restart

1 schedule that we have communicated.

2 MS. LIPA: I want to be sure -- I was
3 expecting something on the SFAS relays that you --
4 I don't know if that is a design issue, so -- but
5 if you can give us an update.

6 MR. POWERS: That is one we didn't have on
7 our list, however, because that issue is -- did
8 not originate from the design analytical reviews
9 that we have largely been discussing here. The
10 issue that Christine has raised is with a relay
11 population that drives our safety features
12 actuation system. There is a population of
13 approximately 250 relays that were changed out at
14 the site at the beginning of the refueling outage
15 in February of last year.

16 Subsequent to that, with the
17 testing program that's been done at the site that
18 identified failures of several of the relays on
19 our root cause analysis and systemic condition
20 corrective action program indicated that there was
21 a manufacturing issue with some of the relays, and
22 also the application of the relay for the voltage

1 and current that they were applied to was a
2 problem. And subsequent to that, the original
3 relays that we had removed from the system and we
4 removed the relays because of their age, and we
5 have seen several age-related failures.

6 We removed them, and they were --
7 they have been held and are available and they are
8 currently going through a testing program to
9 determine their suitability to be reinstalled in
10 the plant while we resolve and get another
11 replacement relay manufactured for us.

12 Out of the population of 250
13 relays, 150 of the ones that we removed passed the
14 screening process testing program that we have
15 got. 83 of them did not pass that initial
16 screening and we are currently evaluating those
17 now. We are also in contact with several other of
18 our industry peer plants that have spare relays
19 that they can give to us. And the bottom line is
20 at this point we believe we have enough relays to
21 reconstitute the system. And then parallel with
22 that effort, we are talking with a manufacturer

1 about doing another production run of the relays
2 for our site and several other sites that use
3 them.

4 The issue was -- the reason the
5 relay was changed out to a different type is the
6 model number had been discontinued, and so a
7 different type was developed to be manufactured
8 and tested and dedicated for installation in the
9 plants. We want the manufacturer to do another
10 production run of the original relay that was
11 intended for the plant. They are indicating their
12 willingness to do that, and several other plants
13 that use that type of relay would like to have
14 additional spares manufactured as well.

15 So that is a program that we are
16 looking at now and having dialogue with the
17 manufacturer to have that in place. So technical
18 basis for the reinstallation of the relays is also
19 in preparation for the testing program criteria
20 that's been applied it. And the reason I know
21 it's the appropriate thing to do at this time is
22 being prepared and documented, so that will be

1 available for review.

2 MR. RULAND: Jim, this is Bill Ruland at
3 headquarters. I have a question about, I guess,
4 the programmatic issues associated with some of
5 these design issues you examined. For instance,
6 the emergency diesel generator loading issue,
7 there is a question about the program going
8 forward, how you intend to monitor and update
9 loading going into the future? And if you examine
10 these issues on that level, a number of them have
11 programmatic implications, and I didn't see that
12 come out very strongly in your slides, and I
13 suspect you are addressing those, those
14 programmatic long-term issues, could you talk
15 about that a little bit, how that is being
16 covered?

17 MR. POWERS: Sure. We have done some
18 significant upgrades to the calculation control
19 program, for example, in the program how we
20 maintain calculations and how we revise them, what
21 the criteria is for revision, and much tighter
22 controls applied to changes within the plant and

1 how calculations are updated. One of the things
2 that we found when we came on-site last year is
3 the calculations at the site were essentially
4 under the control of the disciplines in their
5 areas, on the floor, available file cabinets, but
6 we hadn't gone the extra step at our Davis-Besse
7 site of coming up with an electronic calculation
8 index, for example, and centralized control for
9 document control function of the calculations, and
10 so we are moving towards that now. So overall the
11 program for control of calculations both
12 procedurally, and just the physical control and
13 accessibility is being upgraded at the site, and
14 so there is a number of program improvements that
15 are being made in this area.

16 MR. LEIDICK: I might add that at the other
17 two stations it's being done as well. We are
18 looking at that across the organization, the NOPs,
19 operating procedures for the design area are
20 really a top priority of ours, so we are getting
21 those in good shape at all three plants.

22 MR. RULAND: Thank you.

1 MR. FARBER: Jim, you have spent a lot of
2 time discussing the foremost significant issues
3 that face you prior to restart, but do you have
4 some sense that you could give us of the
5 population of lesser tier significance issues that
6 need to be resolved before start-up?

7 MR. POWERS: Well, there is a number of
8 smaller tier issues that we are working through.
9 As Bob described, it would be -- a number of
10 condition reports have been issued over the past
11 year. Each of those is being resolved and
12 corrective actions being prepared. I would say
13 out of the range of the 1,200 condition reports
14 that have been issued, there may remain less than
15 50 overall between various engineering and
16 technical organizations that remain to be done,
17 and we are working off corrective actions, and
18 when we talk about our performance indicators, we
19 work off of what we refer to as bulk work.

20 But there are selected technical
21 issues that we are working through that are below
22 the level of these four that we feel are bounded

1 by the schedule for these four, and those are
2 tracked both on a top priority list, engineer top
3 20 list, for example, at the site has just come
4 up, are evaluated and then subsequently
5 resolutions are identified. They drop down the
6 list, and we have made a significant change to the
7 site probably since the last time you were there,
8 Marty, in terms of how we are controlling the
9 work. We have been working from a corrective
10 action program, essentially working through the
11 lists of issues, working with a schedule.

12 Corrective action program applies
13 to get issues done as we worked off the bulk
14 original number, first identification of issues in
15 discovery and investigation and working off
16 resolutions to the issues. At this stage we are
17 coming out of the forest and being able to see
18 individual trees. And so the engineering top 20
19 list, the modification lists are now prepared, and
20 we have assigned Mike Foss at the site, who is one
21 of our directors at the site. He has been
22 assigned as restart director, and one of his

1 primary functions is to help in the driving of
2 these issues. And if you were to visit now, the
3 conference room 209-210 out in the front building,
4 which we refer to now as the plant support center,
5 that room has been converted into a command center
6 where all the various engineering issues that were
7 reviewed everyday, we have review meetings about
8 the issue with owners, they are required to have
9 fragments, lay out the resolution. The issue
10 management team provides some questioning on
11 considerations that they have got, they are there
12 prepared to answer the questions about the issues,
13 that the issue is going to be successfully
14 resolved on a timely basis.

15 So at this stage of the recovery,
16 the change in our management to being much more
17 focused on individual issues. While there were
18 many of them, each one now is being brought in and
19 focused on by the management team to assure that
20 we are driving to completion, so that is helping
21 us through that process.

22 MR. FARBER: Thank you.

1 MR. POWERS: The conclusions on the
2 remaining design issues, as I just discussed, the
3 resolution is being addressed by the corrective
4 action program to ensure safe, reliable operation.
5 And we are moving through that process now. Our
6 work-off curves and progression at the plant
7 continues to move us towards the upcoming mode
8 changes.

9 The next topic I'd like to move
10 into, and if I move through this quickly, is
11 questions that you had on our 50.54(f) letter
12 response. And this was in 1997 that the request
13 was issued by the commission to describe the
14 health essentially of the design basis at the
15 plant, and each plant -- Davis-Besse was one that
16 was required to respond on how that design basis
17 was promulgated into the procedures that operate,
18 surveil and maintain the plant.

19 And so at the time that that
20 response was made, the assessments were done that
21 -- on the status of calculations, and that
22 response credited calculation improvements program

1 and system description development projects that
2 were done in the mid-80s, during the mid-1980 term
3 out at the site, and there was a lot of
4 engineering activities at that time, and a lot of
5 that was captured in system design descriptions
6 and in calculations that were prepared.

7 And so we knew that work had been
8 done. The results, though, in the assessment
9 specifically excluded several topical areas due to
10 previous assessments and inspections that had been
11 performed. And these were areas that -- some of
12 the areas that we have talked about, environmental
13 qualification, high energy line breaks, seismic
14 analysis and flooding. And the reason that those
15 weren't looked into in great detail is because
16 work had been done, inspection work or internal
17 oversight self-assessments, a lot of it was
18 believed that those areas had been surveilled in
19 detail.

20 And we also committed as part of
21 this 50.54(f) to initiate a design basis
22 validation program because we knew were weaknesses

1 in calculations of assessments that had been done
2 by your organization and ours. And that program
3 was initiated.

4 So the program was worked through,
5 the calculation basis for the maintenance rule
6 risk significance systems was evaluated. I think
7 we were in the range of issues that were -- with
8 questions that were raised and documented on that,
9 and that was -- open items were captured for
10 disposition in various programs, corrective action
11 program, corrective action tracking system and the
12 Davis-Besse validation program tracking database,
13 which was referred to in our request for
14 assistance.

15 So based on the level of the
16 issues, significance of the issues, it may have
17 initiated a condition report or just a tracking
18 item within the corrective action catch system.
19 That is something that ought to be done,
20 calculation needed to be clarified or updated, but
21 there was not a high level of significance, safety
22 significance to that action. So that was the

1 approach to this.

2 Now, as we went back and evaluated
3 over the past year where we stood with the
4 responses, we found out we did not follow through
5 on a timely basis for completion of those open
6 items for calculation update through to priority,
7 and, in fact, that is something we had
8 communicated in one of our follow-up letters to
9 the staff.

10 But in the beginning of this year,
11 we found that there was still open items that had
12 not been done, so that they were languishing in
13 terms of priority.

14 Subsequently we got into the latent
15 issues reviews, our system health reviews, safety
16 function validation project reviews, all of those
17 projects would be as described, found similar
18 weaknesses in design basis calculations, and we
19 have upgraded a number of those calculations, and
20 in particular, you know, I described earlier Ken
21 Byrd's accident analysis area, we have done a lot
22 of global calculations for the various systems and

1 heat load calculations and performance
2 calculations, and we found that, yes, all this
3 work is kind of revalidated, that there were
4 weaknesses in calculations. Largely the systems
5 have been demonstrated to be nonoperable through
6 our assessments of all the additional issues that
7 have been raised and were adequate to support
8 operability.

9 We did find a couple of areas, as
10 Bob described, where there were detailed issues of
11 operability, but given the ~~devisiveness~~ decisiveness of what we
12 have done over the past year, we have dedicated
13 teams of individuals, well-experienced individuals
14 going through the systems. We feel that on total,
15 what we have done essentially validated the
16 statements we made in terms of the adequacy of the
17 design basis to support operability of the
18 50.54(f) letter.

19 Notwithstanding that, we also feel
20 that we need to do a supplemental response to the
21 letter to describe what we have done over the past
22 year, document what was found and how it relates

1 to the original findings and the design area plan.
2 So that is one of the plans that we have had in
3 our regulatory affairs section, to go through the
4 process of rolling up and reporting what we found
5 in the past year relating to our 50.54(f) letter
6 response in the mid-90s. And we feel that all the
7 work that we are doing in the design area to
8 upgrade and -- surveil and upgrade our design
9 basis to the plant is going to move us forward
10 quite a bit in the quality of the adequacy of our
11 design basis for information.

12 Are there any questions on that
13 50.54(f) letter?

14 MR. RULAND: This is Bill Ruland at
15 headquarters. I guess I didn't hear how the open
16 items system remain, that you actually didn't
17 complete all of the items that were opened?

18 MR. BYRD: All of the open items were put
19 into the corrective action program as ~~conditional~~ condition
20 reports, and so all of those condition reports
21 have been categorized and -- with any other
22 condition report, so every open item that is

1 categorized as required for restart will be
2 complete by the appropriate mode for restart.

3 So at this point I don't have any
4 exact number, but obviously the majority of the
5 things that would be required for Mode 4 have been
6 completed. Some things were categorized as
7 enhancement and others were not. Other items were
8 identified during all of those reviews, those
9 particular items may have been identified as
10 post-restart actions.

11 MR. GROBE: I'm not sure I understand your
12 question, Bill. Was that a priority to March of
13 2002 when the plant was shut down or was it as of
14 today?

15 MR. RULAND: Both.

16 MR. GROBE: I think, Ken, you answered the
17 question at the time the plant went down for it's
18 refueling outage in February of 2002.

19 MR. BYRD: What percentage had been
20 completed then?

21 MR. GROBE: How many items were there?

22 MR. BYRD: Essentially all of them. We had

1 responded to things that had been -- we had as
2 condition reports but had not been -- or request
3 for assistance had not been dealt with except for
4 a very few, but a vast majority of them were still
5 there.

6 MR. GROBE: So let me make sure I understand
7 if we could, Bill.

8 MR. RULAND: Let me ask this question. So
9 if I understand what you're telling us, you had
10 identified a thousand -- about a thousand open
11 items as part of your design basis validation
12 program, and essentially all of them are still
13 open; is that what I heard?

14 MR. BYRD: The majority of them are still
15 open, essentially all of them, correct.

16 MR. RULAND: Essentially all of them?

17 MR. BYRD: But --

18 MR. RULAND: That's all I needed. Thank
19 you.

20 MR. GROBE: Can I ask a follow-up question?
21 If I understand correctly, I think I heard what
22 you said, that is that a specific issue clearly

1 resulted in an operability concern, then it was
2 put into the corrective action system? If it
3 simply asks an engineering question, complicated
4 engineering question that required analysis and
5 further follow-up, but it wasn't obvious that was
6 an operability then if it was not put in the
7 correct place under one of these two things,
8 corrective action tracking system or a DVB
9 tracking program database.

10 MR. BYRD: That is correct, the ones that
11 had been identified as requiring needed to be
12 addressed had been put in the corrective action
13 program at the time. And then some of them were
14 also put into the corrective action program, which
15 would be the second bullet you see that, and that
16 actually had been addressed prior to the -- a year
17 ago those issues by and large have all been
18 identified, so the first -- what I call the first
19 two types of issues as proportioned had been
20 resolved.

21 Then there was the third group of
22 issues which had been reviewed and determined that

1 they didn't warrant a condition report at the
2 time, that was a determination, had been put into
3 a request for assistance. Those issues by and
4 large had not been resolved, and those were the
5 issues which subsequently were put back through
6 the condition report process. Every one of them
7 went back in a condition report, and so those
8 would have been addressed as per the condition
9 report process.

10 MR. GROBE: Okay. And that comprised most
11 of the questions that came out of the design --

12 MR. BYRD That comprised most of the
13 questions, and many of them were, in fact, just
14 essentially questions not involving operability
15 issues or things of that nature.

16 MR. GROBE: I mean, that's what these kinds
17 of reviews do, they generate questions, okay.
18 Now, that was on -- I think on Slide 32, that's
19 where you described those, just so that everybody
20 was following where I was at. Could you, on Slide
21 33 it said completion of open items had less than
22 adequate priority. Could you talk about that

1 again, make sure I understand what you're saying.

2 MR. POWERS: On the priority on that, in
3 fact, we communicated in a letter, in a follow-up
4 letter to our 50.54(f) response in terms of
5 priority of calculations and skill to get them
6 done, these were the finding calculation updates
7 that we have been projected they would be done by
8 the end of 2000. In fact, not all of them had
9 gotten done by the beginning of 2002, there was
10 still remaining stuff to get done and we talk
11 about priority, we talk about the -- what we mean
12 is the number of activities the site and relative
13 priority for the engineers updating a calculation
14 for clarity purposes. For example, is it
15 something that is scheduled to do and there is
16 other issues such as modifications that is
17 required or system operability assessment required
18 for a piece of equipment, those have higher
19 priority -- can take higher priority.

20 Now, we don't think that the
21 appropriate priority was placed on finishing up
22 this effort. It was a major commitment that we

1 should have followed through on. In fact, last
2 year we found the condition that we were in, we
3 reactivated the project, applied a lot more
4 resources to get assistance to get these done, and
5 finished up many of the calculations in the course
6 of last year. So there was -- we didn't have
7 adequate priority review to get the projects done.

8 MR. GROBE: And I don't mean to split hairs,
9 but I'd say it had no priority if it was scheduled
10 to be done in the year 2000, and at the time this
11 outage started, the vast majority of the work
12 hadn't been even resourced. Were there resources
13 in the budget to accomplish this work?

14 MR. POWERS: I don't know the answer to
15 that, Jack

16 MR. GROBE: I was just puzzled by that
17 question, had less than adequate priority. You
18 know, I consider priority, I have gotten things to
19 do and these things will be done on Monday and
20 these things will be done on Tuesday and these
21 things will be done by Friday, that's
22 prioritizing. But these things weren't done for

1 years, so I'm trying to understand whether or not
2 the resources were scheduled and applied or
3 whether, in fact, there was no priority because
4 they weren't put in your corrective action system,
5 they weren't tracked in any active work management
6 data base that I'm aware of, I don't believe. Was
7 this DVB an active work management data base, or
8 was it just a tracking system.

9 MR. POWERS: I believe it was a list of
10 things that needed to be done, the priority of it
11 was not -- in that case was not appropriate. We
12 believe it should have been in the corrective
13 action program, so one of the things we have
14 looked to is one of the specifics of the design
15 base validation program, that was the plan that --
16 because it was expected to be a large volume of
17 issues that would need to be dealt with, and if
18 they were lower level ones that have a stand-alone
19 database for tracking that through. And in
20 hindsight as we looked at that, we don't think
21 that that was an appropriate database controlled
22 network. However, it was a workload that was for

1 the internal engineers to get done, you know, it

2 wasn't a priority. We don't --

3 MR. LEIDICK: We understand your point,

4 Jack, the work wasn't done, should have been done.

5 We are cleaning up all the issues at this point.

6 MR. GROBE: And that gets back to, everybody

7 defines safety in our culture differently, but I

8 think included in Dr. Haber's definition is the

9 right resources with the right capability to focus

10 on the right safety issues, and maybe this is a

11 cultural issue that is already addressed.

12 MR. SCHRAUDER: You know, one of the things

13 we did do is eliminate all of those what -- Jim

14 referred to as rogue databases, all of those are

15 now captured in the corrective action program, so

16 they are elevated into the appropriate level. I

17 can't imagine them not being done by their due

18 dates.

19 MR. GROBE: One of the issues that is on the

20 restart checklist is the completeness and accuracy

21 of the information, not only internal records but

22 information that you have submitted to us, and I

1 understand that under Pat McCluskey's group they
2 are going through a sampling evaluation of past
3 significant documents that have been submitted to
4 the agency on the dockets. This is one that I
5 would have expected to be part of that sampling
6 population. But the first bullet on Page 34 says
7 design base validation program was completed to
8 the extent defined in the responses.

9 And so does that mean that you have
10 completed the review of that and you have
11 concluded that was complete and accurate in all
12 material respects?

13 MR. POWERS: No, it does not. This is just
14 a characterization of looking at the 54 letter,
15 what it said would be done relative to what was
16 done, each of the design basis validation programs
17 would be done and issues would be put into
18 tracking systems based on their priority and a
19 follow-up letter gave us a status of that in terms
20 of 50 significant issues, 12 of which went into
21 CRs and the balance of which went into the
22 corrective action tracking system, and the

1 remainder were in a third level of the system, and
2 with a projected date to complete those actions at
3 the end of 2000. So when we make this statement
4 on here, that is all it's intended to imply, Jack.
5 It does not in my view constitute any sort of
6 statement on acceptability.

7 MR. GROBE: Okay. So that the work that is
8 being done under Pat's direction is still looking
9 at this?

10 MR. LEIDICK: Yes, it is, and it does
11 include this one.

12 So let's wrap this up, we
13 appreciate your time today. We have certainly --
14 I think we have spent a lot of time talking about
15 what isn't done yet. Suffice it to say that six
16 months ago we were here, I believe we presented
17 our grand plan, if you will, for attacking all of
18 the open questions from a design perspective, and
19 there's been a tremendous amount of work that has
20 been done. There have been a lot of issues that
21 have been satisfactorily resolved, the bulk of
22 them have been satisfactorily resolved, whether

1 it's through the safety function validation
2 program or self-assessment process, the topical
3 area reviews, latent issue reviews and various
4 programs that we have had out there.

5 So as Jim said earlier, I think we
6 were looking at a rather substantial forest, if
7 you will, at the end of last year in terms of open
8 questions and open issues, and now we are able to
9 see what's left. And we have tried to present
10 today what's left. There is a fair amount of work
11 to go yet between now and the NOP test and the
12 restart, we have got it reasonably well bounded,
13 except the electrical system, I think I'd
14 recommend that we have perhaps a conference call
15 next week between the specialists to get a better
16 dialogue going on what's involved there, what our
17 approach is there to make sure you and us are on
18 the same page in terms of the approach to restart
19 the electrical system.

20 That is the -- I think the most
21 significant loose end that we have out there. But
22 we have really changed the design documentation

1 and design of this ~~plan~~ plant, and it's been a very
2 robust challenge, if you will, and I think when
3 the dust settles again, the completion of the
4 remaining actions that we have talked about here
5 today that we will be able to establish that there
6 is reasonable assurance that the plant systems
7 have been able to perform their intended safety
8 functions.

9 So, again, we focused on the
10 half-empty version if you will here today, and
11 tried to tell you what's left to do, and we spent
12 our time identifying that, and I hope we have got
13 good feedback on that, and I appreciate your time
14 today.

15 I would ask Bob Coward, who's been
16 through some of the reviews today at other
17 stations to give his perspective of what he's seen
18 here at Davis-Besse relative to others in the
19 industry.

20 MR. COWARD: I guess we were talking coming
21 out on the plane, and I had, I'm not sure I'd use
22 the word pleasure, but the opportunity to

1 participate in the number of the plants that have
2 been through this process going back to probably
3 the beginning of the late '80s at Nine Mile Point
4 was the first one I was involved in and if you go
5 also to Salem, Crystal River, Cooper, most of the
6 ones I have been involved with, if you go look at
7 those, I told Gary what's interesting about
8 Davis-Besse is there is certainly a lot of dust
9 and dirt that's been kicked up in the last 12
10 months, been tremendous amounts of activity, lots
11 of people have looked at lots of paper, lots of
12 people have generated lots of paper.

13 When you get all the way down to
14 the end, and we are going to leave electrical
15 systems aside for now because no one knows, we
16 think we -- only we know what's going to happen,
17 but no one knows for sure what's going to come out
18 of this, but that aside, because that was more of
19 a management issue, if you look from a design
20 perspective, did we have to redo the sump? Yeah.
21 Do we have issues of AOC involvement? Yeah.
22 Unfortunately the timing of that got rolled into

1 this outage. Now, that is something everybody
2 else is also doing, and the experience here at
3 Davis-Besse is not really tremendously different
4 than what our plants are seeing with regard to
5 their amount of AOCs.

6 When you look at the big picture,
7 like when we were talking this morning was not do
8 you want to compare grades of bad, but Davis-Besse
9 ain't that bad. When we're all done with design
10 issues, design problems with this plant, it had to
11 be fixed, you know, are we redoing all the health
12 stuff like we did at Cook? No. Are we going to
13 be sitting here fighting over EQ the way the
14 N.R.C. is still doing on Cooper with EQ? No.

15 Are we having to build all new
16 safety-related enclosures and put in new
17 safety-related equipment like they did at Crystal
18 River? I see Tom Payne who went through the whole
19 Salem experience with me, all kinds of
20 modifications to the plant, you know what, I think
21 when we talked here back in December, that what we
22 had was we had a bunch of calculations that

1 probably could have been better, I don't think
2 anybody disputes that. Were there some
3 unsubstantiated assumptions? Yes. Were there
4 some -- did they look at perhaps all of the
5 bounding conditions directly in the calc? No.
6 But in general the plant is safe and the design is
7 sound.

8 We have got like the HPI problem,
9 that one fell through the cracks, it fell down the
10 cracks during design, it fell through the cracks
11 in the '80's and in the assessments in the '90s.
12 Deisel, is this diesel challenged during it's
13 starting sequence on an SFAS? Yes. But we had
14 the analysis and we have good test data to show
15 that this still works fine.

16 So the big picture, you know, I
17 think that, you know, having been involved in some
18 of these restarts, and I know Marty saw us going
19 through the stuff in January, we dug into this
20 real hard, and you look at like the -- some of the
21 decay heat removal/LP stuff, what is the biggest
22 issue is that, you know, there is a potential

1 concern with boron precipitation control back-up
2 method, all right, we are not talking about, you
3 know, primary safety mitigating functions.

4 In most cases here, most of the
5 concerns that everyone has, and we have had some,
6 we identified some ourselves working with the
7 people at Davis-Besse, you know, just like I said,
8 it was just Gary and I were talking about it, and
9 I told him that I felt good seeing where we are
10 compared to nine months ago, just from the
11 standpoint that whether everything is settled,
12 you're know not to say there is nothing, but in
13 the big picture the situation I think is not what
14 people thought it was going to be last September
15 and October. That is just -- I'm not sure if that
16 helps, but that is just a perspective.

17 MR. LEIDICK: We do have work to do, we are
18 about doing that and we thank you for your time.

19 MR. GROBE: Thanks. Any other questions?

20 (No response.)

21 MR. GROBE: Okay. No others.

22 MR. RULAND: No questions from headquarters.

1 MR. GROBE: I have a couple of observations.
2 This is sort of a milestone that First Energy has
3 been working on for quite a while, a number of
4 months, a frequent amount of effort has gone into
5 it. You have gotten to the point where you were
6 able to conclude that you think that programs and
7 processes that you have accomplished are getting
8 you to the end of the tunnel. You're not there
9 yet, there is still a lot of work to do. I think
10 that is a milestone.

11 When you completed the system
12 health reviews and the five latent issues reviews,
13 you weren't there, you decided you had to do more,
14 and then you decided you had to do some topical
15 reviews, and then it was a learning process, and I
16 think it's important that you have gotten to this
17 point.

18 Marty Farber has been leading an
19 effort that has been paralleling your activities
20 for quite a few months now, and he's been working
21 very hard at that with a lot of support from other
22 folks. We still have a lot of inspections to do.

1 We looked at your system health review, we looked
2 at your latent issue reviews and found that the
3 engineering assessment board was adding
4 significant value, that the reviews were being
5 done and the appropriate depth, and then when you
6 went to the safety function validation project, we
7 looked at that and a number of inspectors out
8 there and found that that was going into the
9 appropriate depth.

10 We are now looking at the topical
11 area reviews, and we are going for -- continuing
12 to inspect, and as you finish work, we will be in
13 there to inspect. An additional part, it's not --
14 what we call it is the corrective action team
15 inspection. It's intended to look in large part
16 at the effectiveness of the corrective action
17 program, but the scope of effort that we have
18 chosen is largely dominated by correcting
19 engineering issues, so Marty's work in combination
20 with Zelig's work will leave us the information
21 that we need to decide whether or not we can agree
22 with you, and that likely is going to take

1 multiple additional weeks of effort over the next
2 period of time.

3 So I think this has been very
4 informative, I have learned some things here today
5 that I didn't know, and I have got about 30
6 questions on the front page of your book here,
7 it's covered with handwriting, so we have got a
8 lot of information we need here and it's been
9 helpful for me, and I'm sure the others sitting
10 here at the table, to put in focus where we are
11 at, and where we need to go. I encourage you to
12 figure that even has the potential to be a
13 licensing activity that is going to require us to
14 find resources at headquarters to address, for
15 example, the -- you called me last Thursday
16 morning when it looked like there was a potential
17 for modifying the HPI pump, might be on a
18 competing level with replacement of the pump, and
19 I initiated activities in headquarters to see
20 where we would find the resources to provide an
21 adequate review of that type of a design if you
22 decide to go forward with that so that Pat has

1 weekly calls with Tony Mendiola and his staff, and
2 I would encourage you to make sure that everything
3 that could potentially be a licensing issue is
4 being discussed, not that we will start any
5 activities, but at least we will --

6 MR. LEIDICK: I had a letter, a list that
7 has more on it than less.

8 MR. GROBE: We also. So I really appreciate
9 the amount of effort that went into preparing this
10 presentation, it was very comprehensive and very
11 useful.

12 MR. LEIDICK: We have reached a point where,
13 you know, six months ago we didn't know where to
14 start, and we're getting there. Thanks.

15 MR. GROBE: Christine?

16 MS. LIPA: We are going to take a ten-minute
17 break and then we will open it up for comments and
18 questions from members of the public, and we will
19 be starting in here, going to headquarters, and
20 then we will go to people on the bridge line, so
21 be back here at 4:20.

22 (Whereupon, a recess was

1 had, after which the meeting
2 hearing was resumed as
3 follows:)

4 MS. LIPA: We are just about ready to
5 continue here. What we'd like to do at this point
6 is open it up for questions or comments from
7 members of the public that they have for the
8 N.R.C. folks that are here at headquarters, and so
9 let's begin with that. If there is anybody in the
10 room here that has a comment or question, if they
11 could come up. We have a microphone over on the
12 podium over there across the room.

13 Is there anybody that has any
14 questions?

15 (No response.)

16 MS. LIPA: Is there anybody at headquarters?
17 Is your room open to the public?

18 MR. MENDIOLA: This is Tony, and yeah, we
19 have somebody with a question.

20 MR. HORNER: Dan Horner from McGraw-Hill. I
21 guess I want to -- I didn't catch one piece at the
22 end of Mr. Coward's statement. He was talking

1 about a time frame of something happening in the
2 September-October time frame, and I didn't quite
3 catch what that was. Could you repeat that,
4 please?

5 MR. COWARD: What I meant was the
6 September-October time frame after the LAR reviews
7 had been completed, but before the topical reviews
8 had been complete, the safety function reviews had
9 been completed, most importantly before the
10 questions that were placed in the LARs were
11 answered, there were a number of outstanding
12 design questions and there were some people who
13 thought there were design issues with Davis-Besse.

14 And what's happened since that time
15 frame is these other additional reviews have been
16 performed, and most of the programs and systems
17 are satisfactory, and many if not all of the
18 questions that were identified during the LARs
19 have been answered. And when the questions were
20 answered all of the, quote, issues went away.
21 That's what I meant.

22 MS. LIPA: If you could spell your name,

1 sir.

2 MR. HORNER: I'm sorry, Daniel H-o-r-n-e-r,
3 Daniel Horner.

4 MS. LIPA: Thank you. Any other questions
5 from headquarters?

6 MR. MENDIOLA: No other questions from
7 headquarters.

8 MS. LIPA: Now would be time for anybody on
9 the phone lines who has a question to work through
10 the instructions that the operator will give you.

11 THE OPERATOR: If you would like to ask a
12 question, please press Star 1 on your touch-tone
13 phone.

14 (No response.)

15 THE OPERATOR: Currently there are no
16 questions.

17 MS. LIPA: Okay, thank you. Well, if there
18 are no further questions, that concludes our
19 meeting. And, everybody, thank you for coming.

20 MR. LEIDICK: Thank you, Christine, I
21 appreciate it.

22 (Which were all the

1 proceedings had and
2 testimony taken in the
3 above-entitled matter at
4 the time and place
5 aforesaid.)

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1 STATE OF ILLINOIS)
) SS.
2 COUNTY OF KANE)

3 I, ELLEN E. PICCONY, a Notary Public
4 duly qualified and commissioned for the State of
5 Illinois, County of Kane, do hereby certify that
6 subject to the usual terms and conditions of
7 County Court Reporters, Inc., I reported in
8 shorthand the proceedings had and testimony taken
9 at the hearing of the above-entitled cause, and
10 that the foregoing transcript is a true, correct
11 and complete report of the entire testimony so
12 taken at the time and place hereinabove set forth.

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October 15, 2003.