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PUBLIC MEETING  
Between U. S. Nuclear Regulatory Commission O350 Panel  
and FirstEnergy Nuclear Operating Company

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Meeting held on Tuesday, June 3, 2003, at  
2:00 p.m. at the Camp Perry Clubhouse, Oak Harbor, Ohio,  
taken by me, Marie B. Fresch, Registered Merit Reporter,  
and Notary Public in and for the State of Ohio.

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PANEL MEMBERS PRESENT:

- U. S. NUCLEAR REGULATORY COMMISSION
- John "Jack" Grobe, Chairman, MC 0350 Panel
- William Ruland,  
Vice Chairman, MC 0350 Panel
- Christine Lipa, Projects Branch Chief
- Christopher Scott Thomas,  
Senior Resident Inspector
- U.S. NRC Office - Davis-Besse
- Jon Hopkins, Project Manager Davis-Besse
- Jack Rutkowski, NRC Resident Inspector
  
- FIRST ENERGY NUCLEAR OPERATING COMPANY
- Lew Myers, FENOC Chief Operating Officer
- Michael J. Stevens,  
Director - Nuclear Maintenance
- Mike Ross, Restart Director
- Mark Bezilla, Vice President Davis-Besse
- James J. Powers, III  
Director- Nuclear Engineering
- Robert W. Schrauder  
Director - Support Services
- Steven Loehlein,  
Manager - Quality Assessment
- Clark Price, Owner - Restart Action Plan

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1 MS. LIPA: We're ready to

2 begin then. Okay.

3 Good afternoon. Welcome to FirstEnergy and members  
4 of the public for accommodating this meeting today. This  
5 is a public meeting between the NRC's Davis-Besse Oversight  
6 Panel, and that's us over here, and FirstEnergy Nuclear  
7 Operating Company.

8 I'm Christine Lipa, and I'm the Branch Chief in  
9 Region III, and I'm responsible for the NRC's Inspection  
10 Program at Davis-Besse.

11 The next slide covers the purposes of this meeting,  
12 which are to allow FirstEnergy to present the status of  
13 activities in their Restart Plan; and then also we'll be  
14 discussing some NRC Oversight Panel activities, focusing on  
15 those activities since our last public meeting that was  
16 held in May.

17 We have the agenda here. These are the items we'll  
18 be covering today. And, before we get going too far, I  
19 would like to make some introductions.

20 On the far left is Jon Hopkins, and Jon is the NRR  
21 Project Manager for the Davis-Besse facility.

22 Next to John is Bill Ruland, and Bill is the Senior  
23 Manager in NRR in Rockville, Maryland and he's also the  
24 Vice Chairman of the Oversight Panel. And Bill's actual  
25 position is Director for Project Directorate Three in the

1 Division of Licensing Project Management.

2 On my left is Jack Grobe. Jack is a Senior Manager  
3 in the Region III Office in Lisle, Illinois, and he's the  
4 Chairman of the Davis-Besse Oversight Panel.

5 And then to my right is Scott Thomas, the Senior  
6 Resident Inspector here at Davis-Besse facility.

7 Also, we have Jack Rutkowski, the Resident  
8 Inspector, who's operating the slides for us today.

9 And Nancy Keller was greeting folks on the way in,  
10 in the foyer.

11 And Viktoria Mitlyng is our Public Affairs Officer.

12 There is Viktoria.

13 And we also have Rolland Lickus, our State Affairs  
14 Officer. Great.

15 And then, Lew, if you would like to introduce the  
16 folks on your table.

17 MR. MYERS: Sure. To my left  
18 we have Steve Loehlein. Steve is the Manager of our  
19 Quality Assurance Group.

20 Mark Bezilla is next to me on my right. Mark is in  
21 charge of, he's the site VP at our site. Jim Powers in  
22 charge of Design Engineering.

23 Mike Ross, next to him, is our Restart Director at  
24 the present time.

25 Bob Schrauder next to him. Bob is Support Manager.

1 Mike Stevens.

2 Down at the end is -- Clark Price is down at the  
3 end. Okay. He's going to give the management performance  
4 indicators for us today.

5 MS. LIPA: Okay, great.

6 Thank you.

7 Are there any public officials or representatives of  
8 public officials in the audience?

9 MR. KOEBEL: Carl Koebel,  
10 Ottawa County Commissioner.

11 MR. PAPCUN: John Papcun,  
12 Ottawa County Commissioner.

13 MR. WITT: Jere Witt, Ottawa  
14 County Administrator.

15 MS. LIPA: Okay. Thank you.

16 Okay. So, this meeting today is open to public  
17 observation. I don't know if I'm having trouble with my  
18 mike; does it sound like I am?

19 Okay, how does that sound? All right, excuse me.

20 Okay. So, as I was trying to say, this meeting is  
21 open to public observation. This is a business meeting  
22 between the Nuclear Regulatory Commission and FirstEnergy,  
23 but at the conclusion of the business portion of this  
24 meeting, but before the meeting is adjourned, we will have  
25 opportunity for public questions and comments.

1 In the foyer on your way in today, there were copies  
2 of our June edition of our monthly newsletter, and also  
3 copies of the slides for the NRC presentation and the  
4 Utility's presentation.

5 One of the good things about the newsletter, it  
6 provides good background information and current status  
7 information and also has contact reference information for  
8 our public affairs folks in the region, email address and  
9 phone numbers, if you want to contact them for more  
10 information.

11 We also on the Internet have a web page right on the  
12 NRC web page, a whole web page dedicated to Davis-Besse.  
13 And we also in the foyer had public meeting feedback forms  
14 that you can use to provide comments on today's meeting.

15 Today we're having this meeting transcribed by Marie  
16 Fresch. And that will maintain a record of today's  
17 meeting, and those transcripts are also available on our  
18 web page several weeks after each meeting.

19 MR. GROBE: Christine, before  
20 you go on, just quickly. One of the things that's a little  
21 different about the June newsletter is it includes a little  
22 bit of background information on our Resident Staff at the  
23 site. The reason we did that, Scott has been around a  
24 little while, but we've got two new Residents.

25 Jack Rutkowski is new and we introduced him last

1 month, but also joining us, we just selected an additional  
2 Resident Inspector for the Davis-Besse facility. Her name  
3 is Monica Salter-Williams, and she'll actually be moving  
4 out to the site in September.

5 She's finishing up some work in our Region I Office  
6 right now. And, when she gets here, we'll certainly  
7 introduce her to everybody, but there is a little bit of  
8 background information on the staff.

9 Normally, we only have two Resident Inspectors at  
10 each of the nuclear power plants in the United States.  
11 We've added a third Resident at Davis-Besse to provide  
12 additional oversight during the next couple of years.

13 MS. LIPA: Thank you, Jack.

14 Okay, so the next slide is a summary of the May 6  
15 public meeting that was held here last month. And during  
16 that meeting we provided a status update on the NRC's  
17 ongoing inspections. And we also discussed some upcoming  
18 activities, and the public meetings, that we held a public  
19 meeting in May to discuss engineering issues. And later in  
20 today's presentation, we'll give an update on some recently  
21 completed and ongoing NRC activities.

22 Also last month, FirstEnergy provided an update on  
23 their efforts towards restart and they discussed some  
24 management changes and some other topics that are listed on  
25 the slide.

1        So, I would like to go on to the next one, which  
2 covers significant NRC activities since that May meeting.  
3 We did issue on May 29th, the Final Significance  
4 Determination, which is a red finding regarding the vessel  
5 head degradation. And we had issued a Preliminary Risk  
6 Significance in February. And then last week we finalized  
7 it with the final letter.

8        Also in May, we completed most of our program  
9 inspection, and closed several Restart Checklist items.  
10 We've now closed 11 of the 29 items on the Restart  
11 Checklist. And there were four Restart Checklist items  
12 closed through that programs inspection, and those are  
13 listed on the next two slides.

14        Go on to the next one.

15        Also, since the May 6 meeting, we did hold a public  
16 meeting in the Region III Office on May 7, and that was to  
17 discuss a number of engineering and design issues that  
18 Davis-Besse management is working to resolve.

19        Continuing NRC activities. These are some  
20 inspections that we have that are ongoing. The System  
21 Health Readiness Review Inspection includes safety function  
22 validation of systems and some topical issues, which are  
23 like high energy line break, environmental qualification,  
24 seismic issues. And this inspection is being conducted by  
25 several inspectors and is nearing completion.

1       The next one is inspection into the area of Safety  
2 Culture, Safety Conscious Work Environment. The focus  
3 there is to evaluate the Licensee's process and the tools  
4 for monitoring the improvement in Safety Culture and Safety  
5 Conscious Work Environment and the effectiveness of the  
6 Employee Concerns Program.

7       Another inspection is the Corrective Action Team  
8 Inspection. This is an inspection to review the  
9 effectiveness of the corrective action process at  
10 Davis-Besse to ensure that it's effectively implemented and  
11 appropriate corrective actions are being taken to prevent  
12 recurrence of problems.

13       And then the Resident Inspection, Jack talked about  
14 the Resident Inspectors. There are two full-time Resident  
15 Inspectors and they're permanently stationed and they  
16 inspect a broad spectrum of activities, such as Operations,  
17 Maintenance and Testing. And the Resident Inspector  
18 Reports come out every 6 to 7 weeks.

19       Some other upcoming NRC activities. We do plan to  
20 conduct an inspection of the lower reactor vessel head  
21 area, and this will be as the Utility is prepared to go  
22 into Mode 4. We'll be following that test. And the  
23 inspection will review the procedures and the related ASA  
24 codes, requirements relative to that leak test on the  
25 Reactor Coolant System and we'll also observe parts of the



1 test and verify proper implementation at those procedures.

2 We're also planning to conduct a public meeting to  
3 discuss the Licensee's assessment of their Safety Culture  
4 work. Once they have fully integrated their independent  
5 and internal assessments. And right now we're looking  
6 around July for that meeting.

7 One of the other activities the NRC plans to do is a  
8 backlog, an assessment of the backlog of issues. And this  
9 will really depend on as Davis-Besse approaches restart,  
10 what work items they've deferred to do after restart. And  
11 we'll be doing an inspection to take a look at those.

12 The NRC is also preparing to conduct a Restart  
13 Assessment Team Inspection, when Davis-Besse nears the  
14 point where it will seek NRC authorization for restart.  
15 That inspection will review the readiness of the plant and  
16 the plant staff to resume plant operations safely and in  
17 compliance with NRC requirements. The inspection findings  
18 will be considered by the NRC Oversight Panel in making its  
19 recommendation to the Regional Administrator on possible  
20 restart.

21 The next item. There have been several LER's that  
22 have been issued. Those are Licensee Event Reports. So,  
23 there are specific conditions that were identified by the  
24 Utility or by the NRC that need to be corrected. A part of  
25 our process, we also review the past significance and past

1 enforcement and the causes and make sure those issues are  
2 properly corrected.

3 Two other upcoming activities that I don't have on  
4 the slide; we are planning a meeting on June 19th, in  
5 Headquarters. And the purpose of that meeting will be to  
6 discuss the high pressure injection pump modification. We  
7 will have that video conferenced in Region III, and also  
8 bridge lines available for people who want to call in to  
9 listen to that meeting.

10 Also I want to mention that next month's meeting  
11 will be July 9th, and we're planning to have it at the Oak  
12 Harbor High School.

13 So, that summarizes the NRC activities since our  
14 last meeting. And the inspections that I discussed are  
15 part of our Restart Checklist Item, which is our listing of  
16 issues that need to be resolved prior to restart of the  
17 plant.

18 With that, I'll turn it over to FirstEnergy for your  
19 portion of the presentation.

20 MR. MYERS: Thank you,  
21 Christine.

22 One of the people that I didn't get a chance to  
23 introduce is Bob Saunders; he is with us today; the  
24 President of the FirstEnergy Nuclear Operating Company, in  
25 the audience with his wife, Carol.

1       We've had a pretty interesting month this month.  
2       Made some changes and some decisions that change the flow  
3       path of our schedule. We'll talk about that today.

4       Our desired outcome today is to update you on the  
5       plant performance, some of the tests we've run, where the  
6       plant is at now, some of the management human performance  
7       progress we've made since the last meeting, to provide you  
8       some information, concerns, and decisions on the high head  
9       safety injection pump.

10       We've made decisions on the, which as you remember,  
11       we're going down two flow paths; one is replacement, one is  
12       modification. There were some real advantages to the  
13       modification option. We made that decision, moving forward  
14       now. So, we're down to one path that we're focused on.

15       To provide you with an update on the quality  
16       oversight, Steve is next to me, and he'll do that today.  
17       He'll give their independent perspective on some of the  
18       issues we have, and provide you a status of several of the  
19       engineering issues and how they're moving along. And we  
20       think they're making good progress at the present time.

21       Then, finally, to status you on our overall  
22       schedule. We've made some changes there when we decided to  
23       take the flow path on the modification, high head safety  
24       injection pump, fits into the critical path, flow path.

25       So, we made some changes there. Additionally, then

1 provide some information on the performance indicators that  
2 we monitor to focus toward restart.

3 I introduced the members at our table today. Mark  
4 Bezilla will status you on the plant. I'll give you some  
5 information on the Management and Human Performance  
6 update. Specifically, our Electrical Distribution and  
7 Safety Injection Relays is Jim Powers. Bob Schrauder is  
8 with us. He'll talk to you about that High Pressure Safety  
9 Injection Pump and the Corrective Action Program. And  
10 Steve Loehlein, Independent Assessment.

11 The remaining issues, we really got a good list of  
12 all the issues and the status of those issues and Mike Ross  
13 has really been focused on that. He will provide you some  
14 of that information. And if time permits, we'll look at  
15 the Schedule Milestones and the Restart Performance  
16 Indicators. If it doesn't, we have those back on the  
17 board.

18 With that, I'll turn it over to Mark Bezilla, so he  
19 can talk about plant status.

20 MR. BEZILLA: Thank you, Lew.

21 I would like to brief you on where we are with  
22 regards to our Reactor Coolant System Pressure Testing and  
23 our efforts to complete work in Containment.

24 My desired outcomes; demonstrate our increased  
25 confidence in Reactor Coolant System and its support

1 systems and provide an update on containment activities.

2 Next slide.

3 We completed the 50 pound pressure test of the  
4 Reactor Coolant System on May 6. We inspected  
5 approximately 1100 components, connections, items,  
6 including the reactor vessel closure head; it's an O-ring  
7 area, the CRDM flanges and the reactor vessel bottom head.

8 No leakage was noted from the reactor vessel closure  
9 head, the O-ring area, the CRDM flanges, or the reactor  
10 vessel bottom head. We did identify 54 items that required  
11 additional attention. And, this could range from a repack,  
12 to a tighten packing to a clean and continue to observe.

13 We completed the 250 pound test on May 25th. Again,  
14 we inspected those 1100, approximately 1100 components,  
15 connections, et cetera. And this time we identified 26  
16 items that required additional attention. There were six  
17 active leaks; three of those were packing leaks, and the  
18 other three were reactor coolant pump seal package  
19 temperature elements.

20 Two valves of note, are decay heat valve number 11  
21 and number 12. These valves are the first two valves off  
22 of the Reactor Coolant System to the Decay Heat Removal  
23 System. They had very small accumulations of Boron at the  
24 body to bonnet gasket, and we're currently evaluating the  
25 best course of action for those valves and to address that

1 small accumulation of boric acid.

2 There were 8 recurrent indications of Boron and  
3 these will also be appropriately dispositioned prior to  
4 Mode 4. And those were clean, inspect, and take a look and  
5 we saw some recurrence there. So, that's where you get the  
6 recurrent items.

7 I believe that these two pressure tests, the 50  
8 pound test and the 250 pound test, have set us up well for  
9 our first operating pressure, normal operating pressure and  
10 near normal operating temperature milestone.

11 MR. GROBE: Mark, do you  
12 know on DH 11 and 12, do you know what the cause of the  
13 body to bonnet leakage is on those valves?

14 MR. BEZILLA: Jack, we suspect  
15 that that's a gasket leakage. It may just be because the  
16 valve is cold at this point, and as we heat up, that may  
17 help seal that body to bonnet leak. I believe our approach  
18 will be to clean. These are the two valves in our decay  
19 heat tank -- decay heat tank, decay heat valve tank, and do  
20 the first normal operating pressure, normal operating  
21 temperature test, then reopen the tank and take a look and  
22 see what those valves look like. We may also do some  
23 torque checks and/or additional torquing of body to bonnet  
24 holes.

25 I have a picture with me, Jack, in case you hadn't

1 seen it or you were interested, but this is, it's tough to  
2 see from there. This is a blow-up and you can see, it's  
3 about a quarter teaspoon of boric acid is what, the volume  
4 we're talking about, quantity we're talking about. I'll  
5 share this with you on a break.

6 MR. GROBE: Okay, thank you.

7 MR. BEZILLA: A few more notable  
8 items or items of interest. We determined that in the  
9 decay heat removal circulation homing mode, that is where  
10 we have the decay heat circulating reactor coolant and with  
11 the cooling bypass. So, we were cooling the decay heat, if  
12 you will, the decay heat reactor coolant circulation, if  
13 you will.

14 We can only get up to, close to 140 degrees for exit  
15 thermal couple temperatures, and only to about 130 degrees  
16 bulk reactor coolant temperature. The only note there is  
17 we have no decay heat in the existing core. Okay.

18 We placed the makeup and purification system in  
19 service. That was our normal makeup letdown seal  
20 injection. We did find a few items there that will need  
21 remediation, but all in all that's just a perform well.

22 We exercised and operated the pressurizer heaters  
23 and pressurizer spray valve. We drew a bubble, so we  
24 heated the pressurizer up to 400 degrees using those tools,  
25 if you will, those items. And again, those performed very

1 well also.

2 And, we ran each reactor coolant pump. Those are  
3 the biggest motors we have in the plant. And we ran each  
4 one of them separately and then ran them in combination  
5 from anywhere from 30 minutes to a couple of hours. Again,  
6 that gave us confidence in that big piece of equipment, if  
7 you will, or those four big pieces of equipment.

8 So, in summary I'll say, we gained additional  
9 confidence in the performance of Reactor Coolant System and  
10 its support systems.

11 Any questions?

12 MR. GROBE: Yeah, I want to  
13 go back to DH 11 and 12. Have you gone back through the  
14 mechanical work packages to identify whether there is  
15 anything that sticks out on reassembling those valves?

16 MR. BEZILLA: I did not  
17 personally, Jack, but I had my guys take a look, and we  
18 didn't do anything with the body to bonnet. We did repack  
19 the valves this outage, but we did not do anything with the  
20 body to bonnet.

21 MR. GROBE: Okay. Thank you.

22 MR. HOPKINS: Mark, I have a  
23 question. You mentioned three temperature elements for the  
24 reactor coolant pumps. Were all of those elements on the  
25 two reactor coolant pumps that you did work on?



1           MR. MYERS:        We replaced the  
2 seals on all four reactor coolant pumps.

3           MR. HOPKINS:     I thought you did  
4 more work on two than all four.

5           MR. MYERS:        We did. We  
6 changed the rotating assembly on two. The thermal couple  
7 with the leaks on it are on the seal packages. We replaced  
8 all four of those.

9           MR. HOPKINS:     Okay.

10          MR. BEZILLA:     Jon, I believe it  
11 was three of the pumps, if I'm correct. And as Lew said,  
12 we touched all four of the reactor coolant pump seals.  
13 What was interesting was, they were leaking prior to the  
14 pump runs; and then after the pump, reactor coolant pump  
15 runs, I couldn't find any leakage.

16          I went and checked those myself, and I looked at the  
17 four pumps and then after we had ran the pumps, and I  
18 couldn't see any leakage. So, I don't know if that was  
19 because we had staged a seal and there was less pressure  
20 available to those sensors. But in any case, we have to  
21 disposition those, and I believe there is going to be some  
22 rework on those elements.

23          MR. HOPKINS:     Okay, thank you.

24          MR. THOMAS:     One  
25 clarification. It may be of some benefit if you describe

1 the temperature relationships between pressurizer  
2 temperature, RCS temperature, during the 250 pound test.

3 MR. BEZILLA: During the 250  
4 pound test, bulk temperature was from, if I remember  
5 correctly, was somewhere in the 140, or actually 140 to 160  
6 range, and overall reactor coolant system pressure was  
7 around 250 to 260 pounds. But the pressurizer, because we  
8 wanted a steam bubble was up over 400, I believe 400  
9 degrees, to give us the steam bubble to have the 250 pounds  
10 in the system. So, that piece of the system was hotter  
11 than the bulk cooling temperature in the rest of the  
12 system.

13 MR. THOMAS: And the initial  
14 conditions for the latest HPI test required you to heat up  
15 in excess of 140 degrees and you did that.

16 MR. BEZILLA: We did that. We  
17 heated up -- Scott's referring to the high pressure  
18 injection pump testing that we just completed. We heated  
19 up to about 180 degrees and we did that with the reactor  
20 coolant pumps.

21 Reactor coolant pumps are big motors, big pumps, and  
22 they cause rotational energy to be imparted into the  
23 coolant, and we can heat up the coolant using the reactor  
24 coolant pumps.

25 Okay, next slide.

1        Now, I would like to provide you a brief update on  
2 our containment activities. First, let me provide an  
3 update on our containment health activities. In regard to  
4 the discovery action plans; 14 of 24 of those are complete  
5 and remaining 10 are in our internal review process.

6        I talked to Tim Chambers just before coming over  
7 here and he believes that those will be finished either  
8 late this week or early next week. So, we should have all  
9 of those completed by next week.

10       In regard to our Implementation Action Plans, there  
11 is 16 of those. Four of those are complete. Six are in  
12 our internal review process. One is in draft form; that  
13 has to do with containment air cooler motor replacement.  
14 And five are awaiting field work to complete, so we can  
15 complete those packages. So, I'll say progress is being  
16 made in those Implementation Action Plans.

17       Now, let me talk a minute about the containment  
18 work. I think we've made good progress on containment  
19 work. We have a few items to complete to get us to the  
20 point where we can put the equipment hatch on, which is  
21 effectively, I'll say, containment closure.

22       And those items consist of reconciling 250 pound  
23 test deficiencies or issues that we noted. Containment air  
24 cooler flow balancing, and there is some final strut and  
25 support work that we've got to finish up on the service

1 water pipe associated with those CACs.

2 Completion of a few containment health items. The  
3 seal along the basement wall, and then demobilization of  
4 containment, removal of tool, toolboxes, scaffold, things  
5 of that nature, and then I'll say final cleaning of the  
6 containment in general. We've been cleaning, but need to  
7 get the stuff out and then do the final cleaning and check  
8 of containment.

9 Installation of containment equipment hatch is an  
10 important activity for us. It signifies that the plant is  
11 near ready for that first normal operating pressure, near  
12 normal operating temperature evolution.

13 And, additionally, once we finish in containment,  
14 our daily exposure number is going to drop. We'll have our  
15 people in, I'll say, lower radiation areas not in  
16 containment, so I think that will help us from a personal  
17 dose standpoint also.

18 I believe we can be ready for installation of  
19 containment equipment hatch and containment closure within  
20 the next few weeks and I think it's very doable.

21 Once we install the containment equipment hatch, our  
22 Containment Health Project Manager, Tim Chambers, is going  
23 to conduct a turnover, I'll say, of ownership of  
24 containment to Mike Roder, our Operations Manager, and his  
25 staff. And, Ops will again own the containment. I think

1 that's a good thing.

2 In conclusion, containment activities are  
3 proceeding, and we should have the containment in a  
4 condition to support closure by putting the equipment hatch  
5 on and having ownership turned over from that Containment  
6 Health Project Manager to my Operations Manager within the  
7 next few weeks.

8 Any questions?

9 MR. THOMAS: Just for  
10 clarification, for when you say containment closure, that's  
11 the turnover to Operations; it's not the final closeout of  
12 containment; correct?

13 MR. BEZILLA: That's correct,  
14 Scott. That's putting the hatch on, and I'll say having  
15 Operations take control and minimize the number of people  
16 in there, the activities are ongoing in containment.

17 Okay, if there is no more questions, I'll turn it  
18 over to Lew.

19 MR. MYERS: Thank you.

20 Let's take a couple moments and reflect back on some  
21 of the actions we've taken on Management/Human Performance  
22 Plan, and then look forward. Our desired outcomes,  
23 discussed those with the actions we've taken to-date, and  
24 then some of the, in the next couple months, we have really  
25 got a focused effort that we'll be applying on the

1 Management Human Performance Plan.

2 Then we talk about going forward. Going forward is  
3 the plan for the remainder of this year. Then we have a,  
4 as part of that, we develop a long term strategy, a long  
5 term plan, that we'll be signing off in the near future for  
6 the continuous improvement of the Management/Human  
7 Performance issues to assure that everything is sustained.

8 The Management/Human Performance Building Block  
9 consists of actions we have taken to ensure that our team  
10 is built to last, if you will; and are the result, as you  
11 recall, the Management Root Cause Report that we sent you,  
12 the Engineering, Operations and Company Nuclear Review  
13 Board Function Assessments, the Corporate Oversight  
14 Assessment, the Independent Safety Culture Assessment, and  
15 the Quality Oversight Assessments that we performed, and  
16 the actions out of those.

17 Actions that we have taken to-date consist of the  
18 FENOC corporate organization has been strengthened, and we  
19 think strengthened significantly with the addition of the  
20 Chief Operating Officer position, the Executive VP of  
21 Engineering, and the VP of Oversight, which reports  
22 directly to our President, and actually reports on the  
23 dotted line to our nuclear -- Nuclear Board.

24 Davis-Besse, the Davis-Besse team now we think has  
25 been strengthened significantly. There is probably more

1 actions that we'll take there in the near future. For  
2 example, we have Mark over here. I'm pleased to have him  
3 here as the Site Vice President. The senior team was  
4 strengthened last year, we took prompt actions there.  
5 We've also been working on the management team to ensure we  
6 have proven leadership there.

7 Additionally, the Independent Quality Organization  
8 now reports, once again through a VP position, to the  
9 President of FENOC, the Board.

10 We've included several barriers, that if you go look  
11 at those barriers, I believe that we put these barriers in  
12 place, and the term I like to use, we've anchored them into  
13 our processes. And, I think that several of these barriers  
14 that we have up here may have actually prevented the  
15 reactor head event from occurring.

16 For example, the Engineering Review Board and  
17 Corrective Action Review Boards are both key barriers that  
18 we have in place now, that we've anchored in place, that we  
19 think will strengthen our organization in the future.

20 Next slide, please.

21 Additionally, the Company Nuclear Safety Review  
22 Board is a high level board of executives that's  
23 independent, and they're designed to provide independent  
24 feedback to the FENOC President. We've strengthened that  
25 board, not only from a member standpoint, but from a

1 process standpoint. So, it is strictly focused now and  
2 focused very well on nuclear safety issues.

3 We've improved the rigor and the classification of  
4 our corrective actions. And I think we're doing, we'll  
5 demonstrate in a few moments that classifications now we  
6 think are very conservative.

7 And also the quality of our root causes, cause  
8 analysis that we use in the Corrective Action Program.  
9 Terms we use; apparent cause and root cause. Well, root  
10 cause is a very thorough analysis.

11 We've also strengthened our Management Observation  
12 Program, and we've discussed some of the things we're  
13 seeing out of that program now, and it's made me proud.

14 Next slide.

15 If you go look at our Employee Concerns Program, I  
16 believe in our 4-C's Meetings and our feedback we're  
17 getting, we're now getting good feedback from our employees  
18 on the confidentiality of the program and also the  
19 effectiveness.

20 They've actually went out of their way a couple  
21 times in meetings with me to compliment us on the  
22 effectiveness of how we're taking on issues.

23 We've increased the rigor in our calculations. The  
24 standardization of our problem-solving approach. Once  
25 again, I think the problem-solving approach, which we're



1 using daily, I think Scott sees us using that. It might  
2 have been one of those new programs that are in place now,  
3 that have a lot of rigor and a good team. Asking tough  
4 questions, we may have discovered the reactor vessel head  
5 issue more quickly.

6 So, with that program, problem-solving approach, we  
7 think is a good program, and similar to what we use at our  
8 other plants.

9 We've initiated the, several employee communications  
10 committees; for instance, the 4-C's we think is here to  
11 stay. Mark is going to take that over as we move forward.  
12 The Town Hall Meetings and All-Hands Meetings are typical  
13 things that we use at our other plants.

14 Section specific improvement initiatives also have  
15 taken place in Engineering and Health Physics. And we  
16 developed several performance indicators. And group  
17 performance indicators, we're working on now, if you walk  
18 around our plant, have various groups in Maintenance, HP  
19 and Chemistry. You see individual department performance  
20 indicators. And in some of the main areas, you see the  
21 overall performance indicators of the status of the plant.

22 We think getting down to those groups; our mechanics  
23 understand what their backlogs are, and the material  
24 condition of the plant is going to be very important to us  
25 and increasing standards going forward.

1 I would like to take a moment just to look back and  
2 think for a moment about the definition of the term that we  
3 came up with. And, you know, if you'd asked me a year ago  
4 to define Safety Culture, I don't think that, that I could  
5 have very well. As well as I can now.

6 And, I could have gave you a definition, but often  
7 we would describe Safety Conscious Work Environment for  
8 Safety Culture. I heard everyone do that.

9 So, if you look, we have definition now as "That  
10 assembly of characteristics and attitudes", so it's  
11 characteristics and attitudes that effect people's  
12 behavior, "in the organization and individuals which  
13 establishes an overriding priority towards nuclear safety  
14 activities and that these issues receive the attention  
15 warranted by their significance."

16 So, what that means is, every day as we do our work  
17 in our power plant, are the safety-related activities  
18 totally articulated and are they receiving the attention  
19 they want by both supervision and management.

20 If you look at the Safety Conscious Work  
21 Environment. We define that as "That part of the Safety  
22 Culture addressing employee willingness to raise issues and  
23 management's response to those issues."

24 You know, the key term back then you use there, no  
25 such thing as a bad question. It's important that we take

1 every concern seriously. And I think we're, ROP met  
2 yesterday, and we're getting pretty good feedback, and  
3 we've made substantial progress in that area. I think it's  
4 an area that you never arrive in, sort of like the tag-out  
5 process, that you're always keep trying.

6 If you go look forward on the next slide, we have a  
7 pretty -- reason I threw this slide up here, I'm not going  
8 to go over issue there. I'll talk about some of them, but  
9 we have a very intense plan laid out for the remainder of  
10 the year. We keep adding things to it.

11 If you go look, in May and June, we have some  
12 procedures we're changing, our work management procedures,  
13 so that each work activity is classified as high, low,  
14 medium risk from a safety standpoint.

15 This week, we're taking Thursday, Friday, and  
16 Saturday and the senior team, myself and Mark are going off  
17 and laying out our strategies for the remainder of the  
18 year.

19 And, as you see, we've got a lot of activities lined  
20 out for between now and start-up, and then for the  
21 remainder of this year. So, then we'll have plans in place  
22 for, that we'll develop through this for next year.

23 So, it's not only are we working on the plant, but  
24 these three day activities with managers and supervisors  
25 and all of our employees, are very time consuming, but it's

1 something we need to do, we're taking seriously.

2 Next slide.

3 Let me provide you with some of those ideas. Our  
4 work management process requires management involvement  
5 based on risk. You know, at our other two plants, we have  
6 a procedure in place, and we bring that over here. Where  
7 depending on the system you're working on, look at that  
8 system, and then we evaluate the, are you being intrusive,  
9 are you just looking, what are you doing to the system.  
10 And, if you're working on the plant protection system or  
11 something like that, may cause a reactor risk; you would  
12 rate that as high to moderate risk. We give that more  
13 management attention and more, based on the risk  
14 significance.

15 And so, we're going to anchor that process at our  
16 Davis-Besse plant. So, we'll have that approved in the  
17 near future.

18 From an alignment activity, facilitated site  
19 alignment; we leadership development, department/section  
20 activities, and All-Hands Meetings scheduled for the rest  
21 of this year.

22 The Senior Management Team, for example, like I  
23 said, Mark and myself, we'll spend the next three days  
24 developing our short term transition plan for plant  
25 startup. You know, we're getting ready at that point now,

1 that we're talking about Mode 4 in the near future, and  
2 when we go into Mode 4, that's a pretty significant  
3 transition. We'll be heating up the plant, putting steam  
4 in our steam lines, testing all of our equipment. So, we  
5 need to understand how we change our behaviors when we get  
6 to Mode 4.

7 MR. THOMAS: Can we go back to  
8 risk management just for a second?

9 MR. MYERS: Sure.

10 MR. THOMAS: How long do you  
11 think the worker level, individual, what is their  
12 understanding of protected trainings; what a yellow risk  
13 condition is? Do you think there is a good recognition of  
14 what that actually means, or?

15 MR. MYERS: Well, I know there  
16 is. I don't think it's internalized as well as it should  
17 be, but I've gone to some of the shop meetings. For  
18 instance, I was in the services meeting a few weeks ago.  
19 They talked about the color of the risk.

20 When you talk to the employees, they understand that  
21 it's there, but I'm not sure, I think it's an area we can  
22 improve the level of knowledge on the behaviors associated  
23 with that risk significance.

24 So, they recognize it, but not to the, they don't, I  
25 don't think they internalize it as much as I would like.

1 Does that make sense?

2 MR. THOMAS: And the efforts  
3 that you just spoke about, will improve that?

4 MR. MYERS: Yes. We're  
5 focused to improve that. One of the things we'll be doing,  
6 I'll talk about that too, we plan on after we get --  
7 looking ahead in my presentation. But after we have, we're  
8 going to have SMT Meetings we talked about. Then we have  
9 three days with managers.

10 One of the things we need to focus on, we got  
11 feedback from Sonja Haber's report and also our independent  
12 assessments, is the employees' understanding what the  
13 remainder of the year looks like and what are those  
14 activities that we have after we start the plant up. And,  
15 and what's important? What are those values and indicators  
16 that are important to us on a group basis.

17 So, these stand-downs, these one-day meetings are  
18 designed to develop a vision map of the short term and the  
19 long term to make sure we have clear understanding of some  
20 of our standards across the site.

21 We plan on having all 800, 900 employees sit down  
22 for a whole day in groups of about 20-- 200 at a time, to  
23 go over the vision maps and standards and everything with  
24 the directors and managers. So, we think that will be a  
25 good opportunity for us to go over dialogue, improve that

1 standard.

2 MR. THOMAS: Okay.

3 MR. MYERS: I rambled a little

4 more on that question than I should have, but the answer is

5 yes, you know.

6 MR. THOMAS: Okay.

7 MR. MYERS: If you go ~~to~~ look at,

8 you know, at the meetings we'll be having; we'll be

9 applying the Lessons Learned from the Root Cause Reports

10 and our Assessments. We'll develop our Leadership

11 Strategies for Safety Culture going forward and then the

12 critical element, elements and issues on both the short

13 term and the long term that we'll continue to focus on as

14 we move forward.

15 We revisit our Safety Conscious Work Environment

16 Program with each and every employee and talk about the

17 changes we've made prior to taking the reactor critical,

18 that's what we find here as Mode 2. And we'll do that at

19 the All Site Meeting with our employees. So, we want to

20 reiterate the importance of Safety Conscious Work

21 Environment at that time.

22 Next slide.

23 Some other actions we'll have, is we'll continue on

24 organizational development activities, both in Engineering

25 and Maintenance. Maintenance is an area now that we're

1 very focused on.

2 We'll continue with our employee communication.

3 We're going to reinstate, if you will, our Weekly Managers

4 Meeting. About a year ago, we stopped having the weekly,

5 the daily management meeting, because we had the 6:30

6 meeting. So, as we move forward and as we transition to

7 more of an operational mode, as we move to Mode 4 and Mode

8 3, and focus on startup; we need to reestablish these

9 managers meetings, have the organizational structure put in

10 place and understand what that structure looks like.

11 I think it's fair to say that we were not completely

12 pleased with the management meetings we had before. So,

13 that structure is going to be very important.

14 We're going to initiate our monthly departmental and

15 section meetings. We'll continue that as we move forward,

16 and continue our monthly All Site Meetings for at least the

17 short term to ensure that we maintain good alignment with

18 our employees.

19 Then conduct a weekly Senior Management Team

20 Strategy Meetings. So as we, as the Senior Management

21 Team, I would like to say is, we always are looking for

22 changes or improvements as we sort of guide the ship down

23 the river, and course direction. So, the strategy meetings

24 every week we're having now, we look for those course

25 changes; and we'll continue those.



1 The next slide, if you will.

2 From a Safety Conscious Work Environment standpoint,  
3 we're going to continue to monitor our effectiveness. In  
4 the third quarter, we plan on doing a survey. And then we  
5 plan on continuing doing the surveys at least for the next  
6 two years, and maybe longer as we see the need.

7 So, that Safety Conscious Work Environment Survey  
8 also provided to you at previous meetings, we think it  
9 gives us a very good benchmark from where we're at; and if  
10 we keep that consistent, we can monitor how we're doing  
11 going forward.

12 From a quality standpoint, quality has a survey that  
13 they use also, and they performed their survey in the  
14 fourth quarter, and then annually for the next couple of  
15 years at least.

16 Then from a FENOC standpoint, we have our Safety  
17 Culture Assessments that we'll be performing as part of  
18 startup. I think y'all guys have sat in on a couple of  
19 those. We think, we're sort of the leaders right now in  
20 the industry from what I've seen in our procedure for  
21 monitoring safety culture. I think we've made some more  
22 improvements there. It's a cursory process.

23 But we'll perform those activities prior to Mode 4.  
24 We'll have a Safety Culture Assessment for readiness.  
25 We'll perform another assessment prior to Mode 2, then for

1 subsequent outages in the future, at least for the next  
2 year or two.

3 Then FENOC is working on a program going forward  
4 where we continually monitor our safety assessment. We're  
5 looking for, at group performance indicators that we'll use  
6 in our corporate standpoint, we'll look at Safety Culture  
7 as we move forward.

8 MR. RULAND: So, Lew, if I  
9 understand, you're not going to come in at this stage to,  
10 basically doing these surveys for the life of the plant;  
11 you're going to reevaluate it sometime later. Have you  
12 thought, maybe this is too far in advance, have you thought  
13 about the criteria you would use to decide whether you  
14 would continue those surveys or not?

15 MR. MYERS: What we really  
16 plan on doing, if you look, we talked about Mode 4, Mode 2,  
17 and then typically what I do is Restart Readiness Review  
18 Meetings that we continue to do after every major outage.

19 But, what we're doing at FENOC levels, we're looking  
20 for a group of performance indicators, and we're working  
21 that already where we use a FENOC level at all of our sites  
22 to continuously monitor the Safety Culture.

23 MR. RULAND: So, the plan would  
24 be to do that for the life of the plant?

25 MR. MYERS: The plan would be

1 to do that for the long term, yes. Life of the plant, you  
2 know, is a long term.

3 MR. RULAND: Thank you.

4 MR. MYERS: I don't know if  
5 I'll be alive that long.

6 MR. RULAND: Both of us at  
7 least would be retired.

8 MR. MYERS: Yes. So, the  
9 intention is to do it for the long term, yes.

10 And, that pretty well concludes everything that I  
11 have. Any questions?

12 Next couple of months are going to be very busy from  
13 a Management and Human Performance standpoint. Thank you.

14 MR. GROBE: Lew, you brought  
15 up some interesting topics. One of the questions  
16 identified by the Management/Human Performance Inspection  
17 Team during their review of your internal Safety Culture  
18 Assessment Tool, which you call Restart Readiness Review  
19 Procedure, was the way in which you build up to your  
20 colorization on that chart that you've shown us many times;  
21 where you could have some poor performance in critical  
22 areas that get averaged into some other performance in  
23 maybe some less critical areas.

24 Have you analyzed that concern or question that they  
25 raised and decided what action, if any, was necessary to

1 address that?

2 MR. MYERS: Actually, Jack,  
3 there was two questions. One y'all guys raised, and the  
4 other one they did.

5 Actually, the doctors that did the external  
6 assessment for us, they don't like grading Safety Culture;  
7 they just like general assertions. And y'all guys tend to  
8 like measurable devices.

9 We've gone back and looked at, we took, I think,  
10 with the survey we did, they call them characteristics or  
11 behaviors or something. We did a very, very good  
12 cross-functional check to make sure that we were covering  
13 everything that they were in that assessment.

14 Then we went back and had some questions about, are  
15 there some critical type areas, like if operations is red,  
16 would you go forward. That term, term be the indicator red  
17 in that area. And the answer to that, if you look at our  
18 procedure, there is some subjectivity there, and we  
19 clarified that procedure.

20 We think, the answer is yes, we think we've  
21 addressed it, but you know, there is always management  
22 subjectivity. And, you know, if we had operations red, we  
23 would definitely consider that at a higher rating when it  
24 came to overall rating than we would maybe, maybe some  
25 other department, you know, like the procedures group, or

1 something, you know. Even though both of them are poor.

2 So, I think we have addressed those questions. And  
3 we spent a, the Senior Team spent several hours going  
4 through and resolving those questions a few weeks ago.  
5 Okay?

6 MR. GROBE: So, there has  
7 been a revision to the procedure or just how you're going  
8 to apply it?

9 MR. MYERS: No, there's been a  
10 revision to the procedure, clarified words, clarified some  
11 sections, and then the overall objectives we probably tried  
12 to clarify that also.

13 So, there is a revision procedure. I think we  
14 signed it, do you remember, Jim, a couple weeks ago?

15 MR. POWERS: Last week.

16 MR. MYERS: Last week? That  
17 seems like an eternity, maybe not.

18 MR. GROBE: Can you get a  
19 copy of that revision to Scott and he'll forward that on to  
20 the Region?

21 MR. MYERS: I will be glad to  
22 do that.

23 MR. GROBE: Just to be clear,  
24 we were reviewing your procedure, it's not what we want,  
25 it's the structure that you set up to assess your

1 organization, and we provided those comments to you, in  
2 your procedure.

3 MR. MYERS: Right. We  
4 certainly like things that are measurable; we tend to be  
5 engineering type. And so, there is, there is things that  
6 are objective and things that are subjective. And when you  
7 get into these kinds of models, you do have some  
8 subjectivity to them.

9 MR. GROBE: Okay. The  
10 outcome of this, and the way that NRC approaches measuring  
11 the effectiveness of an organization, we do it based on  
12 performance. And then look, if there is performance  
13 problems identified, look for the root cause of those  
14 performance problems.

15 You're creating a structure here that's going to be  
16 approaching the front end of that organizationally to make  
17 your organization effective, and of course you're also  
18 looking at performance.

19 There is a couple of things that happened recently,  
20 which I think may provide a springboard for discussion  
21 items at our next meeting. One was a rather significant  
22 operational configuration management problem, where you  
23 were filling the circulating water system and there were  
24 several valves that weren't in the position that you  
25 expected them to be in and ended up flooding condenser pits

1 in the facility.

2 It's significant from the standpoint that Operations  
3 needs to know the condition of all their equipment at all  
4 times; and in this case, they didn't.

5 I would be interested in a broader perspective, if  
6 you have any thoughts on that issue today, that would be  
7 good, but I would also next meeting be interested in the  
8 broader perspective of Operations' performance, what you've  
9 seen, as more systems, Mark indicated possibly in the next  
10 few weeks containment would be turned over to Operations.

11 So, I would be interested in a perspective of  
12 Operations, what you've been learning, what you've been  
13 seeing, not only the front end of the organizational  
14 effectiveness, setting it up right, but the back end of  
15 performance.

16 MR. MYERS: Why don't we give  
17 you an operational review next meeting.

18 MR. GROBE: Okay. And I  
19 think it was two meeting ago you talked about problems you  
20 had seen in a Maintenance area, and you indicated again  
21 today that you had been working in that area. It might be  
22 a good time to, to look at Maintenance's performance and  
23 how you're grading that, how you're judging that, and what  
24 you've learned.

25 MR. MYERS: We've already

1 taken time. We reorganized some pretty strong actions that  
2 we ~~put~~ put the organization side; had some stand-downs with  
3 employees. There is several jobs, I think just recently  
4 done, Mike will discuss that later, but we've actually done  
5 a fairly good job on.

6 But you're right, there is actions still to be taken  
7 there. We have an improvement plan. Maintenance was not  
8 something from a 350 standpoint or shutdown standpoint that  
9 we spent a lot of time speaking with Engineering,  
10 Operations and HP, and recently started focusing in the  
11 Maintenance area.

12 It's not unusual when you start improving  
13 performance in one group, you start seeing the other one  
14 showing up. So, we've taken that on now, so we know  
15 the plan.

16 MR. GROBE: I think there was  
17 an interesting issue that just came up a day or two ago,  
18 when you were disassembling the HPI pumps, the high  
19 pressure injection pumps, and found some bolts, screws that  
20 were broken. Had you identified were those overtorqued or  
21 what caused that?

22 MR. MYERS: To my knowledge,  
23 they were overtorqued.

24 MR. ROSS: That's right.

25 MR. GROBE: So, that may have



1 been a Maintenance problem.

2 MR. MYERS: Yes.

3 MR. GROBE: Okay.

4 MR. BEZILLA: Jack, on that

5 issue, and I've got one of my experts down here. I believe

6 we had overtorqued, it was skill of the craft. There was

7 no specifics in the procedure, and we now have specific

8 torque values for those bolts in the procedures. So, that

9 should not recur. So that's what I believe was the cause

10 of those broken bolts.

11 MR. GROBE: They are somewhat of a

12 unique design bolt. Okay.

13 The other thing, I spent some time with Jim Powers

14 this morning, and we were talking about Engineering. We

15 haven't really touched broadly on Engineering quality in

16 awhile. It might be good next meeting to go over

17 Engineering in a broad context of all the things you've

18 learned over the last several months and where you see

19 Engineering.

20 MR. MYERS: We can do that.

21 So, we have Operations, Maintenance and Engineering.

22 MR. GROBE: That pretty much

23 covers it; doesn't it?

24 MR. MYERS: Pretty much covers

25 it.

1 MR. GROBE: Okay.

2 MR. MYERS: With that, I'll  
3 turn it over to Jim Powers. He will discuss Engineering  
4 issues we have.

5 MR. POWERS: Okay, thank you,  
6 Lew.

7 Two issues I would like to cover this afternoon,  
8 concern our Electrical Distribution System and our Safety  
9 Features Actuation System Relays. We've touched on these  
10 in past meetings and I want to do an update on where we  
11 stand.

12 First of all on the electrical area, one of the  
13 issues we had been evaluating concerned our emergency  
14 diesel generators and their performance under a starting  
15 transient and loading the safety electrical busses. We had  
16 found during testing at the site that frequency and voltage  
17 dips during those transients did not meet statements that  
18 we had in our Updated Safety Analysis Report for the site,  
19 which is our licensing basis.

20 And, based on that discovery, we instituted a study  
21 to determine the significance of that, particularly on the  
22 performance, not only the diesel generators, but all the  
23 equipment that they supply on the emergency busses.

24 Going through a detailed evaluation, we prepared  
25 what we refer to as an operability evaluation that

1 documents the performance and evaluates it and provides to  
2 the Operations staff the basis for the, for operability of  
3 the emergency diesel generators.

4 We provided that on May 15, and they reviewed that  
5 in detail and accepted it. And that allowed them a basis  
6 to declare the diesels operable for all modes. It was a  
7 successful outcome determination.

8 Some of the things we've got prior to plant startup  
9 to do, is to -- yes, Christine, question?

10 MS. LIPA: Maybe you're going  
11 to get to it, but based on the operability evaluation for  
12 now, but your long term plan to restore it; is that what  
13 you're getting to?

14 MR. POWERS: Well, the long  
15 term plan is, to go down the bullets here, the first step  
16 is to update our USAR to reflect the actual performance of  
17 the engines. We have a draft USAR change in the process of  
18 review right now to do that.

19 Then, as you'll see in the last bullet on the page,  
20 evaluating the actions to improve the engine performance.  
21 And there is a couple of changes that could be possible to  
22 improve that performance, but based on the current overall  
23 performance of the engines and the equipment in the system,  
24 they perform acceptably and are operable.

25 MR. GROBE: You indicated

1 that your diesel generators are now operable for all  
2 modes. Are there any conditions on it? Have you resolved  
3 the room temperature questions?

4 MR. POWERS: Good question,  
5 Jack. The room temperature issue is one that we've made  
6 big strides in as well. We had a, a technical team looking  
7 at that issue. This is one where the, the engines, these  
8 are very large diesel generator engines in rooms. And the  
9 ventilation system has not been able to provide cooling to  
10 maintain during summer outdoor temperatures, maintain the  
11 room temperature to acceptable levels.

12 And we've evaluated the components in the room, the  
13 electrical components largely that are sensitive to high  
14 temperatures to determine that they were satisfactory up to  
15 outdoor ambient temperatures of 95 degrees and have  
16 submitted an operability evaluation for that particular  
17 issue to Operations as well.

18 So, we're continuing work in that area. Although,  
19 we've completed that assessment, which provided operability  
20 to 95 degree outdoor temperature, which positions us well  
21 for this coming summer. There are three modifications  
22 we're pursuing in the rooms, and we're continuing forward  
23 to add margin to the plant.

24 And that, that is insulating the exhaust manifold  
25 for the engines, providing ventilation to the electrical

1 cabinets that are in the room, and we're also providing  
2 large fans that we have retrieved from our Perry unit that  
3 were originally intended for the unit two over there and  
4 they were not utilized.

5 And we retrieved those, provided refurbishment of  
6 them, and are planning a modification to install them at  
7 Davis-Besse now. So, putting that equipment to good use to  
8 improve margin in those.

9 MR. THOMAS: So, the  
10 temperature issue is not going to require a USAR change; is  
11 that correct?

12 MR. POWERS: The temperature  
13 issue may require a USAR change as well, Scott, in terms of  
14 the temperature in the room. The current temperature I  
15 believe in the license basis is 120 degrees. And,  
16 currently is 134 degrees, is what we evaluated for the  
17 capability of the equipment in the room, so.

18 MR. THOMAS: Now, it's my  
19 understanding that the fans, once you installed the fans  
20 that you would regain that margin; is that correct?

21 MR. POWERS: That's correct,  
22 the fans will provide a significant increase in cooling.

23 MR. THOMAS: But still may not  
24 get you back down to 120?

25 MR. POWERS: I'm not sure on

1 the detail, that will get us all the way back to 120 or  
2 not. We don't have a complete analysis done on that yet,  
3 but if they don't, then we'll have to change our license  
4 basis to be consistent, Scott, with that.

5 MR. THOMAS: I understand. The  
6 latest on installing the fans; is that post restart,  
7 prerestart?

8 MR. MYERS: Post.

9 MR. THOMAS: Post restart  
10 issue?

11 MR. POWERS: Right. We're  
12 working to position ourselves to do it promptly, continuing  
13 with engineering and procurement and planning for that, but  
14 seems post restart.

15 MR. THOMAS: Cabinet  
16 modifications and the exhaust insulation are prerestart?

17 MR. POWERS: Yes, they are.  
18 Those design packages should be issued this week and work  
19 commencing shortly thereafter.

20 MR. THOMAS: All right. Thank  
21 you.

22 MR. GROBE: Jim, are there  
23 any other limitations on this operability evaluation,  
24 similar to this temperature limitation? It appears by this  
25 spring that we're never going to get to 95 degrees, but

1 it's always possible. Are there any other limitations?

2 MR. POWERS: None that comes to  
3 mind.

4 MR. GROBE: Okay, thank you.

5 Oh, one other question. You have "prepare and  
6 issue USAR change". What's the specific focus of that USAR  
7 change and will that require NRR approval?

8 MR. POWERS: We do not believe  
9 it's going to require a license amendment and NRR approval  
10 at this time, Jack, based on our review of the draft. The  
11 specifics are, the USAR said that on the starting of the  
12 diesel generators, the voltage would dip below 75 percent  
13 of nominal voltage for several cycles. In fact, we found  
14 from our testing analysis it would be longer than several  
15 cycles, so we're changing it to be specific to the results  
16 of our analysis.

17 MR. GROBE: Okay.

18 MR. POWERS: Then I'll go  
19 through our 5059 Process for changes to our license basis.

20 Okay, I'll move on to, with the Electrical  
21 Distribution System, our AC Distribution System. We've  
22 been doing a very comprehensive analysis, or reanalysis,  
23 using Electrical Transient Analysis Program, ETAP  
24 calculation. And our electrical engineering team has been  
25 preparing the model of all the electrical system running

1 through the plant.

2 As you can imagine, this is a very complex model.  
3 It takes the large transmission lines that you see outside  
4 the plant with offsite power in the plant through large  
5 transformers, progressively smaller transformers. The  
6 voltage is reduced and distributed to the various equipment  
7 at various voltage levels down to 120 volts AC, which is  
8 your common power for small items.

9 The analysis is intended to demonstrate under all  
10 conditions the electrical system can provide adequate  
11 voltage.

12 We've gotten our initial analysis results last week.  
13 And, this involved a number of different plant alignments  
14 and cases of equipment loadings, whether it's on or off and  
15 given plant mode as we've gone through that analysis. And,  
16 we're currently evaluating the results of that now, so some  
17 impacts on plant equipment.

18 What we're finding is that there is a certain mode,  
19 unusual lineup of plant transformers that can result in low  
20 voltage under a certain set of conditions, which is high  
21 summer temperatures with all the equipment running to its  
22 duty capability, off-site power coming in through one  
23 startup transformer. And, running under that condition and  
24 having an accident, with all the accident equipment loads  
25 sequencing on the bus quickly, the voltage appears that it



1 is low in that condition, relative to our acceptance  
2 criteria, based on our initial runs of the analysis.

3       What we're doing this week to look at that in  
4 detail, we've got an independent industry team here. We've  
5 got some individuals from the Institute of Nuclear Power  
6 Operations, as well as peer electrical analysts from other  
7 utility sites who have gone through similar analysis  
8 projects here to critique what we are doing, and look at it  
9 and give us any input, critical input in terms of what  
10 we're doing, what we may be able to do better.

11       The bottom line on it, we're evaluating the  
12 conditions that we're seeing from that initial runs of the  
13 analysis with the, with those initial lineups to determine  
14 actions necessary going forward, and that could be adding  
15 some relays into some of the equipment in the plant to  
16 assure that it's not on the electrical system under this  
17 set of conditions, and improve voltage on the distribution  
18 system in that manner.

19           MS. LIPA:           Jim, is there any  
20 chance that this could result in a tech spec change, or,  
21 because I know you have a definition of off-site, on and  
22 off-site circuits.

23           MR. POWERS:        Right.

24           MS. LIPA:        Is that under  
25 question here?

1           MR. POWERS:        Thus far, we  
2 haven't been looking at a tech spec change, but we have  
3 been looking at the alignments that the tech spec could  
4 allow. That's part of the modeling and the different  
5 system alignments, that we could be in this type  
6 of alignment submitted by the tech specs, but thus far, we  
7 haven't considered a tech spec change.

8           We have considered administrative restrictions that  
9 we must have above and beyond the tech spec requirement,  
10 for example, two startup transformers must be in service in  
11 order to satisfy, satisfy the operability. But we're in  
12 the very early stages of evaluating this, and have the team  
13 actively doing that now.

14           MS. LIPA:           Thank you.

15           MR. GROBE:         Just so I  
16 understand, the only thing you've identified to-date is  
17 possibly that a tech spec could be nonconservative, in  
18 which case you would need Administrative Letter 98-01 to  
19 apply some administrative controls and assume a tech spec  
20 change order?

21           MR. POWERS:        That's right.  
22 That's essentially where we are. We haven't gone to that  
23 level of detail, but that's the type of --

24           MR. GROBE:         You're not there  
25 yet?