

1 shipping port.

2 I think, you know, we provide a wide variety of  
3 engineering services in the nuclear industry, with the  
4 common theme being the concept of trying to take the rigor  
5 and depth and quality of the naval reactor's approach to  
6 engineering and apply it to commercial industry. So,  
7 that's sort of where we're coming from.

8 FirstEnergy asked us to take a look at this issue,  
9 the HPI pump issue, just because it's a fairly complex  
10 issue, and, you know, all the solutions seem to be  
11 difficult.

12 And, I guess, and also the idea that the pump we  
13 have works well. So, what we looked at was the idea of,  
14 rather than replace the pump, can we come up with an  
15 approach in which we modify the pump, so the postulated  
16 degradation mechanism won't occur. So we can be confident,  
17 a hundred percent confident, that in the event of a loss of  
18 coolant accident the pump will work acceptably.

19 Which given, I can just tell you my own personal  
20 opinion, we know several other people, pump experts who've  
21 looked at the pump, who think there is a very good chance  
22 that the pump would work as is even without modifications.  
23 But in order to be sure, in order to be safe, we want to  
24 make sure we have sufficient safety margins in the plant.  
25 The idea was, we would come up with a design approach to

1 modify it to get that level of confidence.

2 And, I'm going to show you in just a moment what the  
3 concept is, just so people, because people haven't seen it  
4 before, but basically, what it comes down to, the approach  
5 we laid out involves a number of steps. The first is to  
6 design modification. We do have to make some modifications  
7 to the pump itself.

8 Our approach involves not just modifications to the  
9 pump, but a rather detailed testing approach, using both  
10 mockup testing and some testing in the plant, to  
11 demonstrate that the approach is acceptable and the  
12 modification performs its intended function, and the pump  
13 would work acceptably under the design conditions.

14 We also have some analyses that we do to support the  
15 modification. We'll do some motor dynamics analysis to  
16 show the pump will still function properly; we won't have  
17 vibration problems; won't run at critical speeds.

18 We do some hydraulic analysis to demonstrate that  
19 the changes we're making won't affect the ability of the  
20 pump to perform its intended function from a pumping  
21 capability perspective. And since we're making some  
22 modifications to the pump; not the, what I'll call, ASME  
23 code pressure boundary parts, but there are parts in the  
24 pump in which would be, that do react a pressure  
25 difference. Since we're making modifications to them, we

1 want to do some stress analyses to confirm that the stress  
2 levels remain acceptable.

3 We've already done the preliminary versions of all  
4 those analyses. I'll talk about that later. But, moving  
5 forward, we have to do the final versions.

6 We would do the mockup testing. We'd implement the  
7 modifications, and once again, do a post modification test  
8 program to ensure everything worked out okay.

9 If I could get the next slide, Marla. Just to get  
10 everybody, make sure everybody is on the same page.

11 This is the fourth stage pump volute from the  
12 Davis-Besse HPI pump. This piece right here, this  
13 component is stationary inside the pump. It's a stationary  
14 part of the element. And, the pump is a multi-stage pump.  
15 I think there is 11 stages within the pump. This is the  
16 four stage.

17 And, if you look carefully, there is a hole there  
18 and hole there. Those are the take-offs for the flow which  
19 goes from this volute back to the hydrostatic bearing  
20 supply. And, that's sort of, you know, the flow is inside  
21 here, goes out that hole to the bearing, basically coming  
22 out this hole. They're 180 degrees apart; same basic  
23 function. And this hole is about 3/8 of an inch in  
24 diameter.

25 The tubing back to the bearing has an orifice in it,

1 which is only about 110 ~~mils~~ mils, .11 inches in diameter. And  
2 there are some clearances in the bearing itself, which are  
3 only I think about 15 ~~mils~~ mils. And so, given that the sump  
4 screen is about 3/16 of an inch, the mesh; clearly, I could  
5 get particulate into pump flow, which could plug not this  
6 hole, but could plug the orifice and could plug those  
7 clearances.

8 So, this is sort of what we start with. And, we say  
9 to ourselves, well, what are we trying to do? We're trying  
10 to keep debris from going down that hole, because if we can  
11 keep it out of that hole, the pump should work acceptably.

12 So, if I could get the next slide, Marla.

13 The concept we've come up with, and I apologize,  
14 we've sort of, for the hole in the top, this is a backwards  
15 view. This is a see-through, looking at the hole in the  
16 bottom right corner from the last slide.

17 The concept we've come up with is to basically go in  
18 and create a recess or small excavation on the volute,  
19 just enough room to allow us to put a strainer on the  
20 surface. If you want to think of it this way, it's  
21 essentially just another sump screen, just like inside  
22 containment.

23 This strainer has a considerable number of smaller  
24 holes, such that the overall flow area through the stainer  
25 is much larger than the port size, so that they prevent

1 getting debris through the hole into the port; and also a  
2 size, so in the event 90 percent in our concept, even if 90  
3 percent of these holes got blocked with debris, we would  
4 still have satisfactory bearing operation.

5 And by inserting this screen basically flush with  
6 the surface, one of the key advantages this approach offers  
7 is that the pumped flow itself is going to make this sort  
8 of naturally clearing. We expect that what's going to  
9 happen as the pump is pumping, to use a phrase, it will be  
10 self-flushing. Any debris which is filtered by the  
11 strainer will just get retrained in the pump flow and  
12 pumped right back into containment into the sump.

13 So, some of the earlier question, some of the  
14 earlier design concepts from a month or two ago, which had  
15 various filters and strainers installed outside of the pump  
16 itself, they had the problem of how do I get the  
17 particulate, filter particulate back into containment.  
18 This approach solves that problem by never letting it get  
19 out of the main pump flow.

20 So, if I could get the next slide, Marla.

21 It turns out, as Mike talked about before, one of  
22 the issues that is still being resolved, is cyclone  
23 separators on the low pressure injection pumps. Well, it  
24 turns out there is a very similar issue on the high  
25 pressure injection pumps.

1           If I remember correctly, I think the LPI pumps, it  
2 was found as the ~~extended~~ extent of condition on this one, where  
3 there is a cyclone separator in the flow path from the  
4 pump, pumped fluid back to the pump seal. And then in this  
5 design, this is a different location on the pump, but that  
6 right there, is a flow port through the pump casing itself,  
7 going out to the cyclone separator.

8           That is only about an 8th of an inch in diameter;  
9 smaller than the 3/16 inch sump screen. So, theoretically,  
10 I could also plug the intake to that port. So, the design  
11 concept is to take the same kind of approach where I take  
12 this strainer, I'm going to create a slight recess in that  
13 pump part, and install that over the flow path of the  
14 cyclone separator.

15          And, we believe that those modifications would  
16 work. We're very confident they can be made to work.  
17 We're confident that the strainers will be self-flushing.  
18 We've had discussions with the pump vendor. We've had  
19 discussions with other pump vendors to confirm those  
20 assumptions, and everyone is very confident.

21          So, what we would do is, we would do those  
22 modifications; and in parallel, we would go through a  
23 rather extensive testing, mockup testing procedure, to  
24 verify the pump will still function properly and the  
25 bearing will still work.

1           So, in terms of -- the next slide, Marla -- sort of  
2 where we're at, what's the status.

3           MR. SHERON:           Bob, before you go  
4 on, how do you hold those strainers in place? Are they  
5 welded in or what?

6           MR. COWARD:           As of right now,  
7 that concept is welded, but that's not been finally  
8 determined yet.

9           Where are we at? We have conceptual designs for  
10 the modification and the mockup fixtures. We actually need  
11 four or five different mockup fixtures to fully demonstrate  
12 the satisfactory satisfaction of this modification.

13          We've done preliminary analyses. We've done  
14 preliminary rotor dynamics analysis, preliminary ~~hydraulic~~ hydraulic  
15 analysis, and preliminary stress analyses. So, we've done  
16 the preliminary analyses, and we're in the process now of  
17 getting ready to do the final analysis.

18          At this point, sort of the key activity we're  
19 working on that we're just starting in the last few days is  
20 the detailed procedure and specification of the mockup  
21 testing. We think that's critical to demonstrating the  
22 success of this approach.

23          In particular, as an example, one of the things we  
24 have to come up with, is we have to come up with a recipe  
25 for the soup. I think people have used that phrase, where

1 we want to demonstrate that the hydrostatic bearing will  
2 still function properly with the strainers installed. And  
3 so, one of the things we have to do for our mockup testing  
4 is, we have to load the pump flow path with debris, which  
5 would, you know bound, considerably bound the type of  
6 debris we would expect to see in the plant following the  
7 LOCA.

8 So, that activity is in process right now to come up  
9 with that approach and we're confident we can do that.  
10 There has been a lot of work done by, you know, sponsored  
11 by the NRC in the last 20 years, plus there's been a lot of  
12 work done specific for Davis-Besse in the last year looking  
13 at the regeneration and retransport within containment  
14 within the sump.

15 And so, other than developing a test specification,  
16 you know, we're also finalizing the detailed designs for  
17 the modification and mockup testing fixtures.

18 MR. GROBE: When you say  
19 mockup testing fixtures, you're not actually going to use  
20 the pump?

21 MR. COWARD: No, what we found  
22 was, it was impractical to test this, although we think the  
23 pump would pass, it was impractical to test the pump, the  
24 actual pump.

25 Trying to take the pump out, take it to a test



1 facility, and test it with debris, given it's contaminated,  
2 was sort of, you know, it wasn't a nonstarter, but it was  
3 close. And, we don't want to test the actual pump with  
4 debris, because we don't want to introduce debris into the  
5 plant.

6 So, what we've come up with, it's actually a  
7 sequence of separate effects touch testing with some  
8 collective testing at the end to show that all the various  
9 features and portions, items of interest will still be  
10 acceptable.

11 MR. ZWOLINSKI: Bob, have you ever  
12 encountered an issue such as this before?

13 MR. COWARD: Such as?

14 MR. ZWOLINSKI: The problem with  
15 this HPI pump.

16 MR. COWARD: This specific  
17 problem?

18 MR. ZWOLINSKI: This, or something  
19 like it?

20 MR. COWARD: No.

21 MR. MYERS: Let me ask him a  
22 question. Is this same approach used elsewhere in pumps?

23 MR. COWARD: We've done some  
24 surveys; and clearly, the concept of installing a strainer  
25 in a flow line to the hydrostatic bearing is not unusual,

1 that's a common design approach. Installing it in the pump  
2 itself where we're installing it is not, I'm not sure if we  
3 found a specific application of that design; however, we've  
4 spoken with pump designers and pump vendors, and they've  
5 agreed there is no reason it shouldn't work.

6 MR. ZWOLINSKI: Are you far enough  
7 along with your thinking that you would be able to do this  
8 in place; or would you have to move the pumps?

9 MR. COWARD: That's mostly a  
10 workmanship issue. We would want to have people who are  
11 very good at doing pump breakdown and maintenance do this;  
12 and our expectation is they prefer to do that in a  
13 controlled setting, rather than in the pump room.

14 MR. MYERS: That's right.

15 MR. ZWOLINSKI: So, if you  
16 embarked on this particular fix, you would probably be  
17 taking the HPI pumps out of that room?

18 MR. COWARD: We would be taking  
19 the -- I'm not sure, are you familiar with the design of  
20 these pumps?

21 MR. ZWOLINSKI: Yes.

22 MR. COWARD: There is an  
23 element that's inserted into the casing.

24 MR. ZWOLINSKI: Um-hmm.

25 MR. COWARD: The element which

1 is inserted in, the pump part, the guts, we will be  
2 removing that component from the pump room; yes.

3 MR. MYERS: Not the whole  
4 pump.

5 MR. COWARD: Not the whole  
6 pump.

7 MR. ZWOLINSKI: I was trying to  
8 garner a sense of the amount of work required to get after  
9 that particular pump.

10 MR. COWARD: We had four people  
11 do walkdowns of the pump removal last Thursday and Friday.  
12 They were in there all day. And their conclusion at the  
13 end of the two days was they had developed an approach for  
14 taking the pumps out. There is some effort involved, yes,  
15 but they're confident they can do it.

16 MR. GROBE: Do you have a  
17 sense of the relative flow rates to these two ports?

18 MR. COWARD: Oh.

19 MR. GROBE: Just in rough  
20 terms. I would imagine it's fairly low.

21 MR. COWARD: Yes. The one to  
22 hydrostatic bearing, I think is measured in less than 10  
23 gpm. If I remember correctly, the one to the cyclone  
24 separator I think is only 1 or 2, but don't quote me on  
25 that.

1           MR. GROBE:        And in the, what  
2 you call soup in the concoction for the soup, the recipe  
3 for the soup.

4           MR. COWARD:        Yes?

5           MR. GROBE:        Are you  
6 considering the hardness of the materials as well as the  
7 physical size?

8           MR. COWARD:        Yes.

9           MR. GROBE:        I would think  
10 that would be a critical component.

11          MR. COWARD:        That's, yes,  
12 that's in the full parameter; it's the size, the shape, and  
13 the hardness.

14          MR. GROBE:        That's an  
15 interesting challenge.

16          MR. COWARD:        Yes. The whole  
17 project is.

18          MR. PASSEHL:       Yes, I have a  
19 question.

20          MR. SHERON:        I'm sorry. We  
21 would probably like, once you firmed it up, learn a little  
22 bit more about your separate effects test that you want to  
23 run, in terms of how it would appear or compare with, say,  
24 the integral test, because my understanding is you don't  
25 plan on doing an integral test; right?

1           MR. COWARD:       Not of the whole  
2 configuration, no. And, also, we already recommended to  
3 FirstEnergy that as part of the approach in the near term,  
4 although we feel very confident that this can be made to  
5 work, we also recommended to FirstEnergy that we suggest  
6 that they assemble a small team of experts, you know, a  
7 murder board, just to go through the whole concept to make  
8 sure that nothing has been missed.

9           MR. MYERS:       We have to talk  
10 about Safety Conscious Work Environment, to use a different  
11 term.

12          MR. GROBE:       I'm not sure I  
13 heard you, Lew. Your mike wasn't on.

14          MR. MYERS:       We would use a  
15 thorough, rigorous hearing board, rather than a murder  
16 board. I've got to do a safety conscious work environment,  
17 okay?

18          MR. COWARD:       Sorry, Lew.

19          MR. GROBE:       You don't have a  
20 spare pump, spare HPI?

21          MR. MYERS:       We have a spare  
22 rotating assembly, but we don't have a whole pump, no.

23          MR. GROBE:       So, you really  
24 don't have the capability of doing integrated testing?

25          MR. MYERS:       That's correct.

1 MR. COWARD: The spare was  
2 actually removed from the plant last year, so it's  
3 contaminated.

4 MR. MYERS: If you go look at  
5 the testing, what we would be doing though, and compare  
6 that, we would have more testing of this type than I think  
7 anyone in the industry for this particular application.

8 MR. ZWOLINSKI: I believe I heard  
9 one of you gentleman say something to the effect that a  
10 number of industry experts have looked at this particular  
11 pump and associated scenario, and call into question the  
12 need for any change whatsoever.

13 MR. COWARD: Correct.

14 MR. ZWOLINSKI: So, you all are  
15 talking about a lot of effort whatever way you go. The  
16 third option of not doing anything is off the table?

17 MR. MYERS: That's not  
18 something we have on the table at all now; not doing  
19 anything. No. It's off the table.

20 MR. ZWOLINSKI: So, you've  
21 concluded that, that you disagree with these experts and  
22 you want to go forward with one of these, at least two  
23 options, and whatever else you may come up with?

24 MR. MYERS: I think, I think  
25 it's important that we, we look at these options. Either

1 one of these two options gives us a very good, thorough and  
2 rigorous approach to make sure that the quality of our  
3 pumps for these designated efforts, the quality of our  
4 pumps would ensure good reliability.

5 And I think it's important that since we've had the  
6 issue, that rather than just have an opinion, that we go do  
7 something to improve the over, ensure that we have that  
8 reliability.

9 So, really, our intention right now is one of these  
10 two approaches now. The idea of doing nothing is not  
11 something we considered. I think that's correct; isn't  
12 that right, Gary?

13 MR. LEIDICH: That's right.

14 MR. MYERS: We believe the  
15 pump would work as is. We believe that. But we, you know,  
16 it would be very difficult to really validate. We think  
17 this approach would give us pretty thorough validation.  
18 And, also, the new pump installation, the way we're  
19 designing the new pump with the hardnesses, and the, the  
20 amount of clearances would give us a very good reliability  
21 too. So, both approaches are pretty sound.

22 MR. RULAND: As I understand  
23 it, you'll need to submit a license amendment for only one  
24 of these options; is that correct?

25 MR. MYERS: No, that's not,

1 that's not true. It depends on the, the approach we take  
2 for installation.

3 One of the things, if our Mode 4 Test slipped out,  
4 there were some technical issues, that would probably go  
5 ahead and make the modification or install the pump, one of  
6 the two.

7 But, you know, right now, the way we're looking at  
8 the situation, the Mode 4 Test, assuming it's near term,  
9 gets rid of a ton of issues. I mean, it ensures that  
10 equipment is working properly. It allows us to do a lot of  
11 PMT testing. Allows us to ensure the head we bought  
12 doesn't have any leaks in it, you know. There is a lot of  
13 components up there, and gaskets and stuff.

14 So, if you look at what the NOP Testing does, it  
15 allows us to do a bottom head inspection, ensure that we  
16 don't have any leaks there. So, assuming we can do that in  
17 the near term is something that we would go forward with.

18 MR. PASSEHL: I just had another  
19 question. You mentioned there is, you believe there is a  
20 self-limiting feature on the screen that would flush  
21 itself. Is part of your mockup testing intended to verify  
22 that?

23 And the second part of my question is, you mentioned  
24 a 90 percent debris loading where you feel you would still  
25 have the adequate loading to the bearing. Would your



1 mockup testing verify, you know, at what point your screen  
2 could be loaded and have debris on it and still have the  
3 proper flow to the bearing?

4 MR. COWARD: The mockup, the  
5 tests concept as we pointed out so far, would clearly  
6 validate that the strain, the strainer is self-flushing. I  
7 mean, that's a critical element of the whole approach. If  
8 we can't show that, then we can't show the thing will  
9 work.

10 And the second is, at this point, we had not planned  
11 on doing what I'll call the limit test, where how much can  
12 we block before the hydrostatic bearing stops working  
13 properly. We had planned on basically just demonstrating  
14 the 90, 95 percent blockage, it will still work properly.  
15 I guess, so, we're not, I don't know the firm answer to  
16 that question yet.

17 MR. PASSEHL: Okay, thank you.

18 After this section, and before Mark starts, we would  
19 like to take a ten minute break. Everybody gets a chance  
20 to stretch their legs.

21 MR. MYERS: I was going to  
22 suggest that.

23 MR. PASSEHL: Okay. So, 20  
24 minutes until, we'll reconvene.

25 (Off the record.)

1           MR. PASSEHL:       Okay, next on the  
2 agenda is Mark Bezilla.

3           MR. MYERS:        You know, before  
4 you start, we were talking about the pump. And you know,  
5 if the no option was an option. I guess overall I thought  
6 about it during the break talking to Gary.

7           I think it's an issue that we have to address. And,  
8 I think from a Safety Culture standpoint, that we might be  
9 from an analysis process to demonstrate, or from an  
10 analysis standpoint, we think it's okay.

11          But we can gain a lot of margin by either installing  
12 a new pump or the mods to ensure the pump operates these  
13 couple of small scenarios in a very reliable manner. So,  
14 it's our intention at this time, you know, to go forward  
15 with one of the two options; and I validated that here for  
16 you. Okay.

17          MR. ZWOLINSKI:    Thank you.

18          MR. BEZILLA:       Okay, thank you.

19          I've got two Desired Outcomes today. First, I would  
20 like to tell you a little bit about my previous and current  
21 Davis-Besse experience. And also, I would like to present  
22 some of our recent Operations Section's accomplishments and  
23 our status on readiness for restart in the Operations  
24 Section.

25          As Lew stated, I was previously at Davis-Besse

1 during 1987, 1993 time frame, and I held an SRO, Senior  
2 Reactor Operator's License at Davis-Besse. I was a shift  
3 supervisor, and then I was the Op. Superintendent. And as  
4 Lew said, I had a couple of other stops on my way before I  
5 ended up at Beaver Valley as the Site Vice President about  
6 twelve months ago.

7 In my new assignment as Vice President at  
8 Davis-Besse, as well a Plant Manager, I'm excited about the  
9 opportunity to restore Davis-Besse to safe, reliable  
10 service. And even though I was a Site Vice President at  
11 Beaver Valley, I have been involved in the Davis-Besse  
12 restart activities for about six months or so.

13 Lew asked me to sponsor the Restart Readiness Review  
14 Process for Davis-Besse. I helped create the process and  
15 was involved in the Restart Review Meetings prior to Mode 6  
16 and Mode 5. And this involvement helped me get up to speed  
17 on some of the challenges and issues.

18 Let me now shift gears and tell you about some of  
19 the recent Op. Section accomplishments and our status on  
20 Readiness for Restart.

21 We have developed and implemented Operations and  
22 Operations Leadership Plan. And, what we did was, we had  
23 the Institute of Nuclear Power Operations come in and do an  
24 assessment of Operations, as well as a number of internal  
25 assessments.

1       We bundled up those assessments and came up with,  
2 I'll say, an improvement plan. And we've accomplished  
3 about 90 percent of those actions to improve our  
4 performance; and there is about ten percent that will be an  
5 ongoing activity for us. We suspect it will take about 12  
6 to 18 months to finish out those actions.

7       We've developed and implemented a comprehensive  
8 Expectations and Standards document. We trained all our  
9 operators on the Expectations and Standards, and we use  
10 shift turnovers to reenforce specifics out of those  
11 Standards and Expectations on a daily basis.

12       We've issued an Operations Leadership Statement;  
13 and what this is, I'll say, it's Management's expectations  
14 for the Operations leadership and the requirements for an  
15 operationally focused and operationally led site.

16       We've expanded the Operator Observation Program.  
17 What we want from each of our on shift Senior Reactor  
18 Operators is a minimum of eight observations a month. And  
19 we use these observations to watch our people, watch their  
20 behaviors and performance, and then coach those folks on  
21 those areas that need to be improved with the overall goal  
22 being the improved performance.

23       We've completed an NRC Appendix R Fire Inspection.  
24 And, some of the positives that were noted out of that  
25 inspection was that the plant support was recognized as a

1 positive in support of that inspection. The NRC also  
2 acknowledged that our self-assessments had been pretty  
3 thorough in regard to Appendix R and fire protection. And  
4 the NRC recognized our documentation process and website as  
5 a good configuration management tool.

6 Additionally, out of that inspection, there were a  
7 handful of questions that were asked that we've entered  
8 into our Corrective Action Program. We need to do some  
9 follow-up, and we will have interface with the staff to  
10 provide answers to those questions.

11 MR. GROBE: Mark, I  
12 appreciate you bringing up that inspection. Let me just  
13 provide some additional detail on that.

14 We have a routine inspection program called The  
15 Baseline Program; and that includes once every three years  
16 performing a very comprehensive design inspection. We  
17 always talk about this as fire protection, but it's really  
18 not fire protection per se, it's more focused on the  
19 ability to safely shut down and maintain the plant in a  
20 safe configuration in the event of a fire in various areas  
21 of the plant.

22 Davis-Besse was due for that inspection prior to  
23 restart. And as I mentioned, it's a very intensive  
24 inspection. And we evaluated the need for that inspection,  
25 and concluded that what we wanted to do was perform a kind

1 of a scoping effort, where we brought in three engineers  
2 that are expert in this area for a week and ran you through  
3 your ~~bases~~ paces. And the results of that inspection were fairly  
4 positive.

5 We concluded we don't need to do the Intensive  
6 Design Inspection prior to restart. We'll put that in the  
7 schedule for calendar year '04.

8 But what we did find, one issue, the panel received  
9 the results from the team in one of our internal meetings,  
10 and concluded that we don't need to do that full inspection  
11 prior to restart; but there was one issue that's  
12 outstanding that we need to come back and look at prior to  
13 our ability to close out that Restart Checklist item, and  
14 that's the firm hydraulic calcs that we expect to be done  
15 prior to us arriving on site. They weren't completed.

16 So, once those calculations are completed, if you  
17 make sure we are aware of that, and we'll schedule time to  
18 come back to take a look at those analyses.

19 MR. BEZILLA: Thank you. We'll  
20 do that.

21 Okay, Significant Training Accomplishments.  
22 Through the shutdown period here, we've continued our  
23 operator requalification training, and I think that's a  
24 positive.

25 Also, we've successfully completed the annual

1 requalification training and testing for all of our  
2 operators, both licensed and nonlicensed; and we did have a  
3 couple of failures, but we successfully remediated those  
4 individuals.

5 We completed License Operator Responsibilities  
6 Training. What this was, we provided training to the  
7 operators on what a Nuclear Regulatory Commission ~~issue~~ issued  
8 Senior Reactor Operator/Reactor Operator License meant to  
9 them personally, and we completed that training.

10 We also completed Operability Determination Program  
11 Upgrades and Training for our Senior Reactor Operators,  
12 select engineers and some select support staff that deal  
13 with Operability Determination. And as part of our  
14 upgrades, we used industry peers to help us upgrade our  
15 Operability Determination Process.

16 A couple of plans for going forward in regard to  
17 operator training; we're in the process right now of doing  
18 a Just-In-Time Training on our heatup to Mode 3, our hold  
19 at normal operating pressure and temperature, and then  
20 subsequent cooldown, as well as some casualty and  
21 contingency plans that may be encountered during those  
22 evolutions.

23 MR. THOMAS: Mark, I would be  
24 interested in hearing what having an SRO license means to  
25 you personally. What your viewpoint on that is?

1           MR. BEZILLA:       Okay. I have had  
2 the opportunity to have two Senior Reactor Operator  
3 Licenses; one was on Three Mile, as you know, back in the  
4 early 80's; and Davis-Besse, back in the late 80's, early  
5 90's.

6           The way I look at it, that was you all, the federal  
7 government, giving me permission to operate and oversee the  
8 operations of that facility, if you will.

9           I would say it's a lot of responsibility and  
10 authority. What it means to me is that I'm, as a Senior  
11 Reactor Operator holder, I'm imbued, I would say, with the  
12 responsibility of protecting the health and safety of the  
13 public. So, first and foremost, is making sure I'm  
14 operating that facility in a safe manner, so I would not  
15 challenge the health and safety of the public. Then, of  
16 course, I want to be as safe and reliable as possible.

17           MR. THOMAS:       Thank you.

18           MR. BEZILLA:       Back to the  
19 training that we're doing. The simulator instructors and  
20 evaluators; they're going to emphasize a few things for  
21 us. These are things we think are real important to, I'll  
22 say, successful error-free operations. And, that's proper  
23 communication techniques, Senior Reactor Operator command  
24 and control responsibilities, use and compliance of  
25 procedures, focus on technical specification compliance,



1 to reinforce other operation's expectations and standards,  
2 and thorough prejob briefs.

3 In addition, the training scenarios will closely  
4 match the planned evolutions to make sure that our guys are  
5 seeing how the plant is going to respond during the heatup,  
6 during the hold, and during the cooldown.

7 The operation superintendents will also evaluate  
8 each of those sessions and then provide coaching on areas  
9 that we can improve at the end of those training sessions.

10 And, finally, I would like to talk a little bit  
11 about some Operations led major evolutions since the  
12 beginning of the year. Since the beginning of the year,  
13 Operations has successfully conducted the following major  
14 evolutions; integrated electrical bus testing, and there  
15 were four tests that the guys performed. Integrated safety  
16 features actuation system testing. There were two separate  
17 tests there. Reactor Coolant System fill, drain, refill,  
18 and then pressurization here to 50 pounds to do our initial  
19 leak checks in the reactor coolant system, and  
20 comprehensive high pressure injection testing on both  
21 pumps.

22 The reason I mention those, is that those are fairly  
23 complicated integrated type of tests and it requires a lot  
24 of coordination between the Operations Department, as well  
25 as some other support organizations from the site.

1 Next slide, please.

2 Industry Feedback. I would like to spend a minute  
3 just to let you know about some of the industry feedback  
4 we've gotten in the Operations sections. The Institute of  
5 Nuclear Power Operation has made three assist visits to  
6 Davis-Besse. Two of them were specifically focused on  
7 Operations, and one of them was a site, I'll say, visit;  
8 and that site visit had twelve senior management members  
9 from other nuclear facilities as well as senior ~~IMPO~~ INPO  
10 personnel.

11 Additionally, there were seven Operations assessment  
12 conducted by various management level personnel from other  
13 nuclear power stations. And you can see some of the power  
14 plants up there on the slide.

15 Then, lastly, the FENOC Corporate Nuclear Review  
16 Board Operations Subcommittee has recently performed an  
17 assessment of the plant looking particularly at Operations  
18 Department Readiness.

19 Next slide.

20 Some of the positives we received from those bodies  
21 that were taking a look at us; was that the "Shift Managers  
22 are stepping up to their new leadership roles." This is  
23 best evidenced by their challenging of engineering  
24 conclusions; physical involvement in an observation of  
25 field activities, most recently in some maintenance and

1 refuel sequence activities; pursue the plant proper  
2 resolution, and their ability to articulate their role.  
3 "Standards are equal to or above industry norms."  
4 Operations is being recognized as the site's lead  
5 organization.  
6 "Ownership of equipment in plant is improved."  
7 "Vertical alignment in Operations is very good."  
8 And, "Every interviewee complimented the greatly  
9 improved management attitude toward, and expectation to  
10 identify problems."  
11 Lew will talk a little about Safety Conscious Work  
12 Environment, but that's what that's talking about.  
13 Next slide, please.  
14 The industry also left us with some areas of  
15 opportunities. I'll say these are the highlights. They  
16 said, we need to work on "Establishing consistent  
17 implementation of the Expectations and Standards when  
18 stressful situations occur."  
19 What this is, we want our operators to behave the  
20 same way in a stressful situation as they do in a routine  
21 situation. We want habits and behaviors to be second in  
22 nature. We need to work on that.  
23 We need to "improve facility housekeeping", overall  
24 cleanliness. We just can improve in that area.  
25 "Improve use of Pre-job Brief Checklist" for routine

1 activities.

2 There are opportunities to improve in our three-way  
3 communication; and the implementation of our procedures is  
4 not always consistent with our standard. So, they saw  
5 areas and provided us feedback on procedure use and  
6 appearance.

7 The last slide, please.

8 MR. GROBE: Mark, before you  
9 go onto the last slide, were those last three issues  
10 related to stressful situations or are those separate  
11 issues?

12 MR. BEZILLA: Randy or Mike?

13 MR. STEVENS: Separate.

14 MR. BEZILLA: Separate issues.

15 MR. GROBE: Okay. What  
16 specifically are you talking about when you talk about  
17 consistent implementations of inspection, expectations and  
18 standards in stressful situations; what other observations  
19 were made that, where the operator's performance slipped,  
20 what areas did it slip in?

21 MR. BEZILLA: Lew would like to  
22 answer this.

23 MR. MYERS: There was some  
24 indications present when we were running drills in our  
25 simulator that our operators didn't, could have proofed the

1 plant more quickly than they did. There was some  
2 reluctance to, quickly to do that. So, we're going back  
3 and reenforcing that standard that, you know, if you're  
4 down, go to a conservative approach. So, that was one  
5 indication that they taught us.

6 They also indicated that, that three-way  
7 communication sometimes let down, while we were on duty.  
8 So, those are the kinds of feedback we got.

9 MR. GROBE: I understand now,  
10 I think. These were training induced stressful operations,  
11 stressful situations.

12 MR. MYERS: Right.

13 MR. GROBE: So, the rest of  
14 the findings were field work and that first finding was  
15 training oriented. Okay, got it.

16 MR. BEZILLA: Yes.

17 Okay, then this last slide.

18 Just like a minute to talk about continuing  
19 improvement plans within the Operations sections. We're  
20 continuing our Just-In-Time Simulator Training; and that's  
21 the heatup, hold at pressure, and then depressurization.

22 We're going to complete our assigned actions from  
23 the Ops Section's Business Plan, that's that ten percent of  
24 the improvement plans that are going to take us 12 to 18  
25 months to complete.

1           We're going to have continued emphasis on Safety  
2 Culture and a robust Safety Conscious Work Environment.

3           We're going to continue to coach the operators in  
4 establishing their ownership role at the site.

5           MR. THOMAS:           Mark, could you  
6 expand on that one a little bit?

7           MR. BEZILLA:           Yeah. That's just  
8 we need to continue to reinforce, I will say, Ops  
9 leadership and Ops ownership at the site. I'll give you  
10 example today.

11          We had an activity planned to stroke a motor  
12 operated valve. And the on-shift SRO took a look at that,  
13 and based on the current plant conditions he said, I'm not  
14 sure if this is the right thing to do or the right time to  
15 do that. He raised that up through his Ops management  
16 chain.

17          They made the decision not to proceed with that  
18 activity. Then he went and provided coaching to the  
19 scheduling organization, provided them feedback on why they  
20 had decided not to do that evolution. And they thought  
21 there would be a better opportunity to do that the next day  
22 or two.

23          So, that's the kind of leadership we're looking for  
24 from our operators.

25          MR. THOMAS:           When you say

1 operators, what does that include?

2 MR. BEZILLA: That includes  
3 Senior Reactor Operators, Reactor Operators, and the Field  
4 Equipment Operators.

5 MR. THOMAS: Thank you.

6 MR. BEZILLA: We're going to  
7 take look at our secondary plant startup plan and make sure  
8 if there is any additional training that we need to provide  
9 to the operators, that we will do that.

10 And then, lastly, I think this is a good news story  
11 here. We're going to be recommencing the initial Senior  
12 Reactor Operator and Reactor Operator License Class, and  
13 that's scheduled for the June time frame. And that's  
14 making the next group of operators for us; and that takes  
15 anywhere from, I'll say, 15 to 18 months to complete that  
16 training course. So, I think that's a real positive for  
17 us.

18 So, that concludes my remarks. Any questions?

19 MR. ZWOLINSKI: Mark, focusing in  
20 the control room, are there very many workarounds in the  
21 control room?

22 MR. BEZILLA: Mike, would you  
23 answer that for me, please?

24 MR. RODER: There are  
25 currently seven workarounds, all scheduled to be completed

1 prior to startup.

2 MR. MYERS: Gentlemen, we've  
3 been through our A-1 systems, our operator workaround, our  
4 temporary mods. Right now, I believe every one of those  
5 three, every one of those issues will be completed prior to  
6 startup and on schedule.

7 Is that correct, Mike?

8 MR. RODER: That's correct.

9 MR. THOMAS: So, you'll start  
10 up with no level one workarounds; is that a correct  
11 statement?

12 MR. MYERS: That's what I  
13 said.

14 MR. THOMAS: That's why I asked  
15 if that was a correct statement.

16 MR. MYERS: All the ones we  
17 know about we will solve. We could gain another one during  
18 the startup.

19 MR. THOMAS: Based on what you  
20 know now, the plant is not to startup with the current.

21 MR. MYERS: That's correct.

22 MR. ZWOLINSKI: I guess I asked  
23 the question in the context, if there were a lot of  
24 workarounds in the control room, have they been mimicked  
25 over on the simulator, but if you don't have many, and it



1 sounds as if you're essentially having zero, then the  
2 simulator reflects the control room as you expect it to be,  
3 and you are ready to restart.

4 MR. MYERS: That's a standard  
5 we would expect. If we have a temporary mod or it's a long  
6 term temporary mod or an operator workaround, we would  
7 mimic it during training.

8 MR. ZWOLINSKI: Thank you.

9 MR. GROBE: During February  
10 and March, there was a rather large work evolution that was  
11 underway related to reassembly of the reactor coolant pump  
12 motors and the reactor coolant pumps themselves. And there  
13 is, it's just an interesting story to read about.

14 There was a number of learnings that came out of  
15 this. There was some mechanical maintenance challenges.  
16 I'll just highlight a couple here; overtorquing flanges,  
17 incorrect bolt engagement, some differences between various  
18 alignment procedures for different components.

19 There was some planning issues, pump motor alignment  
20 checks weren't adequately identified in the initial scope  
21 and the plan for accomplishing work. There was some  
22 challenges with draining the reactor coolant system cold  
23 legs, some operational type challenges, coordination.  
24 There was some RP direction that deviated from the initial  
25 work plan as far as what RP believed was appropriate

1 radiologic protection practices. Then a number of delays  
2 in handoffs between work groups, operational tagging  
3 delays.

4 Like I said, in reading through this, there is a  
5 number of learnings I think that come out of this.

6 We heard about maintenance, mechanical maintenance  
7 and some efforts that are underway there to identify  
8 opportunities to improve and to implement some changes,  
9 but I would also, I would like to hear about what you've  
10 seen as a result of those changes in the maintenance  
11 organization.

12 But I would also like to hear a little bit about  
13 work coordination from the outage management group,  
14 operational support, and particularly in this activity,  
15 you're in increased risk configuration. And these various  
16 activities significantly extended the time period that you  
17 were in that increased risk configuration.

18 So, I would also like to hear from an Operations  
19 perspective as far as risk management what you've learned  
20 from this and what you've seen over the last month or two?

21 MR. BEZILLA: Jack, if I could,  
22 I would defer that to Randy.

23 MR. FAST: Jack, let me  
24 first, we'll start with the end in mind.

25 Working through that sequence of work, which was the

1 replacement of four reactor coolant pump seals, we went  
2 into that well knowing that we would be at reduced  
3 inventory. That represents a higher challenge of risk to  
4 the plant, because the time of boil is shorter. Through  
5 that evolution, we, as an Operations Group, noted that the  
6 work was not proceeding as we expected.

7 I was very pleased that our Senior Reactor Operators  
8 were very vocal about what was going on. And they elevated  
9 that immediately. In fact, Mike Roder, our Operations  
10 Manager, myself, and key leaders from the Operations staff  
11 looked at the work that was going on, and challenged the  
12 Maintenance Organization to complete that work in a timely  
13 fashion; however, it did do, I'll say there was a side  
14 benefit in that it changed Operations behaviors.

15 For subsequent work we have instituted a, measures  
16 that have the Shift Manager get directly involved in work  
17 preparation and implementation of the work.

18 And there are two key areas I want to highlight.  
19 The first of which is the work comes to the Work Support  
20 Center, and before Operations will sign on and grant  
21 authority to start that work, we are challenging the  
22 Maintenance Organization to deliver the work products, the  
23 work tasks that we have put hands-on materials necessary to  
24 ensure that the work can be completed in a timely fashion.  
25 We're ensuring that resources are allocated. And we're

1 talking directly with the crafts people to verify that they  
2 have every confidence that the work will go well.

3 I do have examples where the work was not in that  
4 configuration and the shift manager turned that work away.  
5 And that is the appropriate behavior for Operations.

6 There is a second issue I want to bring up as well,  
7 in this number of issues that you raised. That was the  
8 Return to Service after the work is complete, and meeting  
9 the standards of housekeeping that Operations requires.  
10 And what we've elected to do is walk down those  
11 housekeeping, those areas with the Maintenance Organization  
12 to ensure that housekeeping standards are managed and we're  
13 not releasing the clearance to allow that equipment to be  
14 returned until housekeeping meets Operations expectations.

15 And with that, I'll turn it over to Mike to talk  
16 about the things that, the Maintenance Organization has  
17 risen to the challenge to take on to ensure that they are  
18 ready to perform the work.

19 MR. STEVENS: Thanks, Randy.

20 We discussed a little bit last, as a result of that,  
21 we put a multi-discipline team together at varying levels,  
22 used our decision-making NOP to see what we could learn.  
23 There are three major areas.

24 The first one and largest was lack of preparation,  
25 and that was in the Maintenance Organization, as well as

1 all the supporting pieces, the parts and engineering  
2 products. Second was supervisory involvement. Third was  
3 work package quality.

4 From that, we put together an action plan in  
5 implementing it. The most recent success I would say we  
6 have is the current work we're doing on the [(D-1)bus] Delta one, or  
7 increased risk. We did not go into that maintenance  
8 activity, because we were not ready. We needed some  
9 additional engineering products. We needed some spare  
10 parts. There were issues with releasing the relays.

11 So, it looks like the activity from Operations'  
12 challenge and Maintenance thorough review prior to  
13 implementing the work is improving our performance; and  
14 currently that's going pretty smoothly.

15 MR. GROBE: Okay. Thanks,  
16 Mike.

17 Fred, have you folks had any observations both in  
18 the Maintenance and Operations Management area over the  
19 past month or so that you would like to add here?

20 MR. VON AHN: Yeah, I believe we  
21 have, and John, why don't you give us some specifics on  
22 those, and also some ones previous to that?

23 MR. REDDINGTON: John Reddington.

24 Okay, I'll talk loud. Is that all right?

25 We have seen Operations step up in their leadership

1 roles. We've seen, we being Quality Assessment. We have  
2 anecdotal evidence where Ops has, at a turnover meeting, at  
3 one of the 6:30 meetings says, hey, we don't feel  
4 comfortable with the status we're getting. We want better  
5 statuses, and it's kind of held the management accountable  
6 for that.

7 So, overall, I would say in the Operations area,  
8 we've seen a lot of progress being made.

9 MR. VON AHN: John, what about  
10 Maintenance?

11 MR. REDDINGTON: The problems we  
12 see in Maintenance are still schedule issues, I would say.  
13 Right now what we have is, we have a process that is  
14 designed for online scheduling. And if you're in an  
15 outage, as you guys know, you schedule everything ahead of  
16 time and then prepare for it. So, what we're finding  
17 ourselves in is, we're doing real time scheduling.

18 So, compensatory measures, like Randy and Mike have  
19 talked about, are really what's driving the schedule. And  
20 I see that as the biggest issue, the fact that we don't  
21 have a good tight scheduling process.

22 MR. ZWOLINSKI: What you just  
23 described for Operations is maybe some change in  
24 management; has nothing to do with the leadership. You're  
25 not running the 6:30 meeting the way it should be run, so

1 now you're going to run it a little bit better.

2 MR. REDDINGTON: Well, the point  
3 was, the operator stood up and said, look. I mean, the  
4 operator wasn't the guy running the meeting. The operator  
5 said, I need to know a better status of what my plant is,  
6 and he made sure everybody bellied up to the bar, so to  
7 speak.

8 MR. ZWOLINSKI: Okay. The  
9 question was associated with leadership. Leadership, not  
10 just within Operations, but leadership to the rest of the  
11 facility. You've already taken as a given that we want  
12 leadership coming out of the Operations Department.

13 MR. REDDINGTON: Right.

14 MR. ZWOLINSKI: How do we expect  
15 our Operations Department to act, and what attributes do we  
16 expect them to demonstrate to the rest of the entire  
17 Davis-Besse team?

18 MR. VON AHN: John, I'll talk  
19 about that a little bit in my remarks, because we do see  
20 improvements in the questioning attitudes of Operations,  
21 but you're exactly right, we need to review that in each of  
22 the other organizations. And we'll take a look, we'll do  
23 further monitoring, especially in the area of maintenance  
24 in the upcoming months to see how we're doing.

25 In my remarks, we see Operations leadership as broad

1 based at a variety of levels, and in improvements and  
2 questioning attitude and the example that, that John  
3 brought up where a shift manager was dissatisfied with the  
4 cursory level of work reporting, he gave, he demanded  
5 actually that the, that his expectations for a higher level  
6 of and a better reporting status be given.

7 That met with some initial pushback from the rest of  
8 the organization, but he overcame that. And as a  
9 consequence of that, we're getting much better stats. And,  
10 I actually talk about that in my slides coming up.

11 MR. ZWOLINSKI: So in setting the  
12 standard or raising the bar, that's leadership.

13 MR. VON AHN: That's right.

14 MR. ZWOLINSKI: I understand that  
15 one. But running a meeting is a little different or  
16 whatever, to me is another category.

17 MR. VON AHN: Yeah, it's just,  
18 right.

19 MR. ZWOLINSKI: I look forward to  
20 hearing some of your comments on leadership.

21 MR. REDDINGTON: Anything else?

22 MR. GROBE: No, thank you.

23 MR. VON AHN: Well, why don't I  
24 just roll right in now.

25 MR. MYERS: It's your turn,



1 Fred.

2 MR. VON AHN: Good afternoon.

3 As Lew indicated, I am Fred von Ahn, the new Vice  
4 President of Oversight. And, although, I am most recently  
5 from Beaver Valley, I'm not new to Davis-Besse. I was the  
6 manager responsible for the original technical root cause  
7 on the reactor pressure vessel head event with Steve  
8 Loehlein, who is now the Oversight Manager at Davis-Besse.

9 Additionally, I've worked extensively with Bill  
10 Pearce while he and I were at the Beaver Valley Power  
11 Station. And I would like to discuss our observations, and  
12 we heard some of them from John, for the oversight period  
13 from January of 2003 to March 2003. And these activities  
14 have been debriefed with the Davis-Besse Management Team in  
15 mid April.

16 First Operations Leadership. There have been  
17 noteworthy improvements in operations leadership. We see  
18 this as broad based at a variety of levels in the  
19 operations organization.

20 How we see improvements and a questioning attitude,  
21 and I talked about the one shift manager demanded that he  
22 get a better status on the activities associated with his  
23 plan in the work status, was brought to bear on the  
24 organization, and the organization and as a consequence  
25 we've stepped up the, elevated the report to meet higher

1 standards.

2 Shift briefings are improving with better discussion  
3 of abnormal action, contingency actions and what can go  
4 wrong.

5 We've additionally seen improvements in safety  
6 focus. Operations generated over 400 Condition Reports in  
7 the first three months of this year. We see more  
8 engagement in this process at all levels in the Operations  
9 organization.

10 One noteworthy condition report I would like to  
11 discuss is the Collective Significance Condition Report  
12 that Operations wrote on the reliability of the diesel  
13 generators. Operations saw a number of lower level issues,  
14 and because they saw these lower level issues on the  
15 diesel, they questioned the diesel and the collective  
16 significance of those issues, so they generated that type  
17 of Condition Report. That's what we expect to see out of  
18 the organization; that questioning attitude and questioning  
19 the safety of our, of our systems.

20 As well, another example where Operations stepped  
21 in, where we were having problems with our fuel handling  
22 equipment. Operations stopped all activities until they  
23 were satisfied and there was adequate resolution to those  
24 issues.

25 Additionally, we see improved ownership. For

1 example, on the reactor coolant system cleanliness,  
2 Operations championed removal of a part of the reactor to  
3 allow vacuuming debris from the bottom of the head area to  
4 ensure proper cleanliness.

5 So, we see a theme here that we've been building  
6 on. We've seen previously from previous quarters of  
7 Operations taking a leadership role and demanding  
8 excellence out of their, out of their plant.

9 Next --

10 MR. ZWOLINSKI: I think the, I  
11 think the sensitivity I have to management and leadership;  
12 at least, I want to talk about it just a little bit.

13 You're using leadership in the way I would use the  
14 word management; and you're trying to manage more  
15 effectively. Leaders tend to lead people, and managers  
16 tend to manage programs and projects and what have you.

17 Your last bullet on reactor coolant system  
18 cleanliness sounded like someone took a leadership role.  
19 And, if you're saying your folks, you're observing a  
20 leadership role being taken, exhibiting the attributes of a  
21 leader, then that's played out in the way the individual's  
22 managing these other tasks.

23 So, I think you're really talking about Operations  
24 management in some of those successes.

25 MR. MYERS: Can I help with

1 that maybe a little bit?

2 MR. ZWOLINSKI: Sure.

3 MR. MYERS: Sometime ago, Bob  
4 Saunders and the Senior Team of FENOC signed a letter on  
5 Safety Culture. Shortly after that, we at the VP level,  
6 myself, we worked very, a lot of long hours, and carried  
7 things around the country on duties and responsibilities of  
8 our shift managers, on shift, and their role in the  
9 organization, and from a leadership perspective.

10 But the way we, I would sort of in my career define  
11 leadership is the ability of a person to get someone to  
12 jump off a cliff or something, not follow in our standards,  
13 you know. And, I think relative to root cause, that we  
14 shared earlier, that was an example of maybe not the best  
15 leadership in the world, you know.

16 Finding and fixing problems, setting the right  
17 standards are all examples of good leadership. What we see  
18 nowadays with our shift managers, we've worked, our shift  
19 managers have all been interviewed by the CEO of our  
20 company. I've taken every one of our shift managers at  
21 Davis-Besse up to Pete Berg's office, and he's even met  
22 with the shift managers and gone over responsibilities.

23 What we see is a willingness to stand up and say,  
24 we're not going to tag equipment out if the work is not  
25 ready to go; and setting that standard. We had really

1 difficult problems with, with operators performing a  
2 tag-out; then we get halfway through it and we find out the  
3 work wasn't really ready to go, which is a reflection of  
4 the maintenance walkdowns for readiness that we have,  
5 right?

6 And, they put their foot down there. And, that's  
7 what we want them to do. And shift manager is the senior  
8 person on site when this plant is running by itself at  
9 night. Okay? They've got to have the authority and  
10 decision-making to call in the resources they need, call  
11 the duty team at home, and get us out of bed and into the  
12 plant to help them when we need them, you know.

13 I think that our shift managers feel they can do  
14 that now. They're not hesitant of doing that. I also see  
15 them not accepting the status quo on risk management. You  
16 know, well this is going to be out this much longer.

17 Talk about the reactor coolant pump job, all right?  
18 That job really went on event, we didn't have any events  
19 there -- if you had to grade, probably grade it as a C  
20 minus, C plus, something like that. But was it carried out  
21 in a timely manner, organized properly? You know, we have  
22 to have those standards when we take that pump out.

23 The big thing that I want to talk about is skill of  
24 the craft, you know. I mean, that craftsman that worked  
25 that job did not demonstrate the good ownership and good

1 skills of that job. Okay?

2 And we had some vendor support on that. So, our  
3 shift managers willingness to stand up and take a stand  
4 when they see poor performance with any organization in our  
5 plant; that's maintenance, that's engineering giving them a  
6 sloppy operability review, or something like that; that's  
7 what we consider leadership.

8 And we've seen good examples of them taking a  
9 leadership role in our plant; better than we saw before.  
10 More rigor, more, we're requiring more rigor in people  
11 bringing them.

12 We had operability concerns being closed out in  
13 engineering, and they would just call the shift manager and  
14 tell them. That was what was happening. Now, those  
15 engineers come over and convince the shift manager that  
16 this operability call is correct. That's what we consider  
17 our leadership role; that they have standards, they demand  
18 those standards, and help us implement our standards at the  
19 site. And we're seeing good improvement in those areas.

20 Does that help?

21 MR. ZWOLINSKI: Leadership is  
22 difficult to measure.

23 MR. MYERS: Leadership is  
24 difficult to measure.

25 MR. ZWOLINSKI: And having metrix

1 and how do you know when things are a little better, are  
2 far less clearer in leadership than in management, because  
3 if I'm an effective manager, I'm getting a lot of things  
4 done. And there is metrix to that. The metrix in  
5 leadership are far, far less obvious and much more soft.

6 MR. MYERS: One example, you  
7 see in the past from a leadership perspective, Operations  
8 willingness to let tag-outs, tag equipment out, put it back  
9 in service when the work hasn't been thoroughly ready.  
10 They're standing up and saying, we're not going to accept  
11 that standard. In my mind, that's leadership. That's  
12 setting the requirements. And, we see evidence of our  
13 shift managers taking on that responsibility fairly  
14 regularly now.

15 They, when we were getting ready to load the core,  
16 you know, the shift supervisor came to us and said, you  
17 know, we only have to have one RHR pump to load the core,  
18 but we would like to have two. Guess what? We stopped and  
19 waited a week until we had two decay heat pumps, based on  
20 that discussion.

21 So, they're willing to take that leadership, and  
22 that's what we're after them to.

23 MR. ZWOLINSKI: Thank you.

24 MR. MYERS: I don't know if I  
25 helped or not. Tried.

1           MR. VON AHN:       Next we'll discuss  
2 Corrective Action and the Condition Reporting process.  
3       Here, implementation continues to be challenged.  
4 Effectiveness of Corrective Action needs work and has room  
5 for improvement. As oversight, we've taken a look at a  
6 number of Condition Reports and Corrective Actions that we  
7 have tagged for post closure review, and in some cases we  
8 see the issue has not been fully addressed.

9       We've made two process improvements recently to help  
10 us in this arena. We've started an internal assessment  
11 writing trending Condition Reports, so we have a database  
12 or data readily available to support conclusions and allow  
13 us to readily evaluate that. As well, we've put into place  
14 previously Condition Report analysts in each section, and  
15 we're expecting these Condition Report analysts to evaluate  
16 these Condition Reports and take a look at the trends in  
17 each section to help the section with this issue that we  
18 see.

19           MR. ZWOLINSKI:     Fred, in the area  
20 of Condition Report, when we have somebody raise an issue,  
21 does it go through a review board in which it gets  
22 prioritized as high, medium and low, or 1, 2, 3, 4?

23           MR. VON AHN:       Yeah, there are  
24 several conditions. The three conditions we have are,  
25 there is November, Charlie or Sierra. Significant



1 condition adverse to quality, condition adverse to quality,  
2 not a condition adverse to quality.

3 So, there is that high, medium and low ranking, as  
4 well as a multi-memory board actually takes a look at that,  
5 so you don't have tunnel vision. A management team looks  
6 at those on a daily basis, evaluate those, and as a peer  
7 group decide which ones are significant or conditions  
8 adverse to quality or simply not significant.

9 Finally, at the end, a Corrective Action Review  
10 Board will take a look at those Condition Reports that are  
11 of higher significance to ensure that the issue has been  
12 fully addressed.

13 MR. ZWOLINSKI: Does the higher  
14 category require that you do a root cause?

15 MR. VON AHN: Absolutely. There  
16 is a matrix we use and the higher category will require  
17 root cause.

18 MR. ZWOLINSKI: Can you give us a  
19 sense of the type of Condition Report you are seeing today  
20 versus all the Condition Reports that you saw yesterday?  
21 I would, without, without giving an answer, I would like to  
22 think you should not be finding very many significant  
23 issues that would require root cause, so you're in that  
24 middle or even low group. That would be my instinct.

25 MR. VON AHN: Yeah. We would

1 want to identify the problems at their lowest possible  
2 level, so we see that, and we see that we're addressing the  
3 problems at the lower levels, so they're not becoming more  
4 significant. That's what we strive for.

5 We look at that with a number of different ways. We  
6 look at that with a number of Condition Reports we generate  
7 to see that we're identifying problems and fixing them at a  
8 low level, as well as taking a look at and grading certain  
9 Condition Reports which we're doing.

10 Do we have specific data, John, on that for  
11 Davis-Besse?

12 MR. REDDINGTON: Since I can't  
13 handle that microphone again -- I'm John Reddington.

14 The threshold is very low, the initiation rate of  
15 Condition Reports has been good. What we're seeing, what  
16 QA has been seeing is the implementation. When they go out  
17 and they generate a Corrective Action, they actually go out  
18 and do that corrective action. So, that's the kind of  
19 problems that we're finding.

20 The actual initiation is very good. Shop people, I  
21 mean, all over, everybody.

22 MR. VON AHN: So to answer  
23 John's question, we are identifying questions at a lower  
24 level. It doesn't sound as we're getting as many root  
25 cause or the higher level Condition Report.