

1 control, checks for hazards, and as identified foreign
2 material exclusion.

3 MR. MENDIOLA: Can I ask a
4 question about your observations? You said 460 management
5 observation in the month of January. How many managers are
6 involved, or better yet, how often does a specific manager
7 make an observation?

8 MR. FAST: Tony, let me try
9 to answer your question. The total population of folks
10 that are involved in the observation program is somewhere
11 around 125; includes from our First Line Supervisor to our
12 Chief Operating Officer. So, if you kind of figure out,
13 you say 125, that would represent about three per. We have
14 some specific targets on how many people, but as well, as
15 far as managers, we're actually scheduled approximately
16 once per month. So, that's a scheduled observation. Our
17 expectation is that we exceed the minimum.

18 So, I think the numbers are pretty defensive. They
19 will illuminate at least the fact that you schedule each
20 person for one, you might end up with 125. We end up with
21 468, pretty much demonstrates that we're exceeding the
22 minimum expectations.

23 MR. MENDIOLA: That's almost
24 three or four a month, I would say.

25 MR. FAST: That's correct.

1 MR. MENDIOLA: You say most of
2 the observations are in the plant. Are you doing any
3 observations, if you will, of meetings or, you know,
4 engineers get together and discuss system characteristic?

5 MR. FAST: Yes, we do.

6 MR. MENDIOLA: Basically the soft
7 stuff.

8 MR. FAST: Absolutely. When
9 we developed this program, I worked with a team of folks
10 from FirstEnergy Nuclear Operating Company. This is a
11 common process we use at all our stations. We didn't want
12 to put this, didn't want to put any over burdensome
13 constraints on it, so we actually provide some examples. In
14 a meeting, are personally done observations of operations
15 turnover, maybe in observations, but I've also done
16 observations of where I'm not directly involved with a
17 meeting; sit back, walk it, watch the interaction, see what
18 the communications are, and we have some specific
19 attributes to that.

20 So, the answer is, yes we do.

21 MR. MENDIOLA: Okay, thank you.

22 MR. SCHRAUDER: I can tell you
23 when NPR was doing the Safety Function Validation Project
24 for us, I spent two days, two different Fridays, where I
25 went down to Virginia and did some observations of their

1 process as they were going through it also.

2 MR. MYERS: Same thing

3 closer.

4 MR. FAST: We would maybe

5 provide an observation of a vendor out in the field or at

6 their factory or their support headquarters.

7 Any other questions? With that, I'll turn it over

8 to Jim Powers.

9 MR. POWERS: Okay, what I would

10 like to talk about today is looking forward in Restart

11 Readiness, the committee meeting that Randy described in

12 the past slide was talking about Mode 6 readiness for

13 reloading fuel into the reactor.

14 The next mode that we'll come upon as a milestone is

15 Mode 5. We'll replace the replacement head that we have in

16 containment on the reactor vessel with fuel in it. So, we

17 will again assure that we're ready for that mode 5, and be

18 prepared for that.

19 Then following that, we're going to do a containment

20 integrated leak rate test. This is a test that's done

21 periodically at nuclear plants, typically every ten years,

22 where the containment building is pressurized up to the

23 post accident pressure in containment, and leak tested to

24 verify that it meets regulation and requirement per leak

25 tight integrity.

1 We last did this test in 2000, and the results of
2 that test were very good. We were very leak tight, two and
3 a half percent of the allowed exceptions criteria. So, the
4 engineers are quite proud of the containment systems
5 performance. And we've got the same group preparing the
6 test again.

7 Because it's such a large building, we pressurize it
8 with seven large compressors, and that takes about ten
9 hours to pressurize the building. We pressurize it a bit
10 higher than 38 pounds to provide a demonstration that there
11 is additional margin in the capability of containment.
12 And, so we pressurize it up. We have a stabilization
13 period that we hold pressure about 6 to 10 hours, let
14 conditions stabilize in there.

15 Then, we do a drop test is what we refer to it;
16 watching pressure instrumentation is very accurate, and
17 temperature instrumentation is laid out throughout the
18 containment to see any changes that would indicate that the
19 pressure is dropping and that any leakage exists.

20 Following that first phase of the test, the second
21 phase is to introduce a known leak out of the containment
22 with a flow meter, so we know precisely how much air is
23 coming out. Then, we watch our instruments to see if they
24 would detect that, how accurately they detect that. And
25 that validates phase one of the test, showing that the

1 instruments do pick up and read any small leaks.

2 We're looking at this test schedule now to be tested
3 and complete in the early part of March, and it's a major
4 milestone for us. It will demonstrate the robust
5 containment. And the real intent of this is to demonstrate
6 that the access openings that we created in the containment
7 to bring in our replacement reactor head, which we have
8 closed up and we did testing, for example, on the
9 containment metallic vessel itself. We did radiography
10 x-rays of all the welds to verify they met all acceptance
11 criteria, which they did. This will be a substantial test
12 of robustness of the containment for completion of that
13 project.

14 MR. HOPKINS: I have a question,
15 Jim. One of those lines up there says, local leak grade
16 test to repair containment. Why do you have the word local
17 there?

18 MR. POWERS: At the time we did
19 that repair itself, we were looking at locally, the actual
20 weld on the vessel to assure that it itself had high
21 integrity. But, one of the questions is when you do such a
22 large construction project on a structure like this, is to
23 demonstrate overall structural integrity. That's one of
24 the reasons why we're undertaking this integrated test.

25 When you do containment testing, you can do

1 integrated type tests, which is the whole building; or you
2 can do local tests, which is individual valves or in this
3 case welds, to demonstrate each one, one by one, that it
4 has leak tight integrity. So, there is a couple different
5 ways it's done.

6 Typically, every ten years you do an integrated test
7 of the whole building, but each refueling outage, you'll do
8 local leak rate tests of individual valves. Particularly
9 if you do maintenance on a valve, you need to demonstrate
10 as a post maintenance test that its leak tight integrity
11 has been maintained.

12 MR. HOPKINS: So, in reality,
13 the word local is an error though on the slide.

14 MR. SCHRAUDER: No, it's not an
15 error, Jon, we've done both. When we completed that
16 repair, we did a local test of that repair. We will now do
17 an integrated test of the entire containment. We'll do
18 both.

19 MR. HOPKINS: Okay. That's what
20 I didn't understand.

21 MR. POWERS: Any other
22 questions? Okay, if not, I will turn it over to
23 Mr. Schrauder, and he'll talk about --

24 MS. LIPA: Well, actually, I
25 was going to interrupt and suggest a 10 minute break at

1 this point. Okay? So, it's 2:19 by my clock, so 2:29.

2 (Off the record.)

3 MS. LIPA: Let's go ahead

4 and get started. I'm sure Tony will join us shortly.

5 Go ahead, Bob.

6 MR. SCHRAUDER: Thank you,

7 Christine.

8 As Lew said, for the last several months, I've been
9 working with Jim, looking at some of the engineering issues
10 that we're trying to resolve. In particular, over the last
11 couple of months, I've been involved in the Safety Function
12 Validation Project and that's the project I'm going to
13 spend most of my time discussing the status of the results
14 of that today.

15 Before I get to that, I want to very briefly build
16 the background up to that and why we have the Safety
17 Function Validation Project. So, by way of background, the
18 System Health Assurance Plan is what this falls under and
19 that plan consisted of the Readiness Operational Reviews
20 that were done early in the outage; then the System Health
21 Readiness Reviews, which were part of the Building Block;
22 and then the Latent Issues Reviews.

23 We did a couple of other reviews that we looked at
24 in this. We had done a couple of self-assessments on a
25 couple of other systems; the High Pressure Injection System

1 and the 4160 Volt Electric Alternating Current System. And
2 then we also looked at the results of the NRC inspections
3 on several of the systems that we had also looked at.

4 As we went through that, all of the issues,
5 potential issues that were documented, that came out of
6 that were documented in our Corrective Action Program.

7 This next slide is kind of a mini version of an
8 issue that we introduced I believe at the last meeting;
9 then we had a more detailed discussion in Lisle regarding
10 our path for resolution of the issues that Condition
11 Reports that came up.

12 We described a three-path process, where Path A is,
13 is our Corrective Action Program. And each individual CR
14 that's written is evaluated through Path A, where we
15 determine its impact on operability, where the RSRV
16 identifies whether it's a restart issue or can be resolved
17 post restart, look at whether we need to do an extent of
18 condition for those. So, those are kind of the individual
19 issue resolutions.

20 Then over on the far right you see Path C, which the
21 topical issues, some of the, what the collective reviews
22 looked at is there were certain issues that came up that we
23 lumped together in topical issues. Those were the High
24 Energy Line Break, Environmental Qualification, Seismic
25 Qualification of Equipment, Plugging, Appendix R Issues.

1 And, I'll talk very briefly about how we're resolving those
2 at the end of this.

3 Then Path B is where I want to spend most of my time
4 is the Safety Function Validation Project. We've completed
5 that project now, and we want to discuss the results of
6 that.

7 Next slide shows how we got to the Safety Function
8 Validation Project. As we worked through the System Health
9 Readiness Reviews, Latent Issues Reviews, obviously, we
10 generated quite a few condition reports out of that.

11 So, we did a Safety Consequence Review. Actually,
12 we had NPR associates do that for us. They looked at the
13 body of Condition Reports that had been identified by our
14 Restart Station Review Board as required for restart.
15 Looked at those, binned them together, tried to draw some
16 conclusions from that, and recommend a plan for looking at
17 the extent of condition from those.

18 You can see, we looked at about 600 Condition
19 Reports in that process. Eight percent of them or about 51
20 Condition Reports identified a, it did have potential
21 impact on the plant design basis. And again, this is on,
22 I'm going to say, five systems in detail, and two systems
23 that were not as detailed evaluated.

24 So, we had about 28 individual issues, when you bin
25 them together. And again, had the potential for impact on

1 plant design bases. And, a lot of those potential issues
2 did relate to our calculations supporting the design
3 basis.

4 So what-- the project that we came up with or the
5 extent of condition process, we named the Safety Function
6 Validation Project.

7 MR. GROBE: Bob, before you
8 get into that project, could you status us with where you
9 are with resolving those 28 issues?

10 MR. SCHRAUDER: Those 28 issues
11 are encompassed in the Safety Function Validation Project.
12 I don't have the exact where each one is resolved, but they
13 are working through those in the Corrective Action
14 Program. And, I can status you the next time exactly where
15 each of those are.

16 Some of them I know have been fundamentally
17 resolved, and some of those are the issues I'll talk about
18 in the results of the Safety Function Validation Project.

19 MR. GROBE: Actually, Lew,
20 you and I had talked about possibly having another separate
21 meeting just focusing on design engineering.

22 MR. MYERS: That's right.

23 MR. GROBE: I think that
24 would be a good idea. I'm not sure when would be the best
25 time for that, but maybe sometime over the next 4 to 6

1 weeks would be appropriate to have that second type of
2 meeting.

3 MR. SCHRAUDER: That would work
4 out well. I'll be going into detail in all those issues
5 and where we are in resolving them.

6 MR. GROBE: Okay, thank you.

7 MR. SCHRAUDER: Again, NPR worked
8 with us, and we developed the Safety Function Validation
9 Project, whose purpose was to provide assurance given what
10 we seen in the safety functions that provide a significant
11 contribution to the core damage frequency as determined by
12 our plant safety analysis, probabilistic safety analysis
13 could be performed.

14 We looked at all those safety functions that
15 contribute greater than one percent of the core damage
16 frequency. Said another way, all those functions added up
17 to covering 99 percent of the core damage frequency. And
18 approximately 99 percent of what's known as the large early
19 release also.

20 Those safety functions identified were comprised
21 within 15 Safety Related Systems. Five of those, we had
22 already evaluated in great detail in the Latent Issue
23 Reviews. Two of them; the High Pressure Injection, and the
24 4160 Volt AC System, we had done a partial assessment of,
25 but not as deep as the Latent Issues Reviews.

1 So, we took those two systems we'd done partially
2 and added 8 additional systems we were going to look at in
3 the Safety Function Validation Project for a total of, all
4 total that would be 15 of our safety systems that again
5 cover 99 percent of the core damage frequency for the
6 plant.

7 The methodology that was used by NPR was to first
8 find the safety functions and what attributes would be
9 validated. So, the group went off, identified what the
10 safety functions were, what attributes there were. They
11 identified the available calculations and testing that
12 demonstrate the system's capability to perform those
13 functions, and then reviewed the calculations and testing
14 to validate, to attempt to validate whether or not in fact
15 that safety function or attribute could be fulfilled.

16 It was a two-step process that NPR employed; that
17 is, they first had their groups go off the, the individual
18 groups go off and identify the safety functions, the
19 boundary of the system that they were going to look at.
20 That then came into the board, and the board looked, an
21 Oversight Panel, looked at and reviewed the level, the
22 depth that they were going into and confirmed that, yes,
23 that would capture all the safety functions that we intend
24 to look at.

25 Then, the review teams went off, did their reviews,

1 did their looks at safety functions, calculations, testing
2 that had been performed, all the design basis information
3 that they could get. They then brought that back to the
4 board, and then the board probed them, dug at the issues,
5 did their review to make sure that they had done a
6 comprehensive review of the safety functions that they were
7 attempting to validate.

8 In line with that process, or as part of that
9 process, there were oversight provided by FirstEnergy. I
10 spent a couple of days down there, sat through several of
11 the board presentations at the beginning -- well, actually
12 toward the middle of the project and then at the end of the
13 project.

14 Steve had his Quality Assurance Oversight people
15 were down there for much of the time. Marty Farber from
16 the NRC observed a large part of that. We also had at
17 least one member of our Engineering Assessment Board
18 present at nearly all of the Oversight Panel Reviews of
19 those. So, we got a lot of review while that was in
20 process.

21 I would tell you that I believe that it was a very
22 thorough and comprehensive review. I think they did a good
23 job. I think Marty and the inspector that he brought down
24 with him felt like it was a pretty high quality review that
25 was done.

1 So, that's all well and good. What's the results of
2 it? Four of those systems -- I'm sorry. The additional
3 thing that NPR was doing for us in that review was for
4 functions that could not be fully validated, they did
5 perform some of the preliminary technical evaluation to see
6 the impact of that; to determine the effect on systems
7 capability, and they helped us in operability
8 determinations if required, if the systems were found to be
9 degraded.

10 Then, of course, all the nonconformances that were
11 identified during the course of that project were also
12 entered into the Corrective Action Program, and they would
13 then go back over to Path A and come down through the
14 Corrective Action Program.

15 MR. GROBE: Bob, let me
16 make sure I understand that. Oftentimes in engineering
17 reviews, you come up with a lot of questions. And, it's a
18 period of time until those questions are revolved to the
19 point where you can conclude they're actually nonconforming
20 conditions.

21 Do you still have a batch of questions that are
22 still being evaluated, or have all of the issues been
23 evaluated and dispositioned as either nonconforming
24 conditions or adequately resolved?

25 MR. SCHRAUDER: All of the

1 evaluations have not been completed yet, Jack, out of the
2 Safety Function Validation Project. In some cases, they
3 were not able to, with the information they had available
4 to them, validate for instance a safety function. That
5 then comes back to us and we have to do further analysis,
6 in some cases, and further research.

7 So, not all of those Condition Reports that came out
8 of this are complete yet; and we have not yet completed the
9 effort of attempting to validate those systems which NPR
10 was not able to validate their safety function.

11 MR. GROBE: Okay. So,
12 all of the questions have been turned into Condition
13 Reports and you're continuing the evaluation under the
14 Condition Reporting Process?

15 MR. SCHRAUDER: That's
16 correct.

17 MR. GROBE: Thank you.

18 MR. MENDIOLA: I'm not sure
19 I understand. This is a one-time project? In other
20 words, you know, now that you finished it, now that you
21 looked at these 15 systems, and you've come up with either
22 being fully validated or those that need additional
23 analysis; that's it, basically, everything gets handed over
24 to the Corrective Action Program?

25 MR. SCHRAUDER: I'm not sure

1 I understand your question, but basically the answer is
2 yes. It's a one-time project that covered 99 percent of
3 the core damage frequency, but those issues that were
4 identified need to be resolved and they are categorized as
5 either needing to be resolved prior to restart, or whether
6 they can be resolved post restart. Because every
7 discrepancy that they found, we identified and put into the
8 Corrective Action Program.

9 The ongoing process is, as we've talked about in the
10 past for assuring continued system health and maintaining
11 design basis, are the latent issue reviews, which we will
12 incorporate into our ongoing processes.

13 MR. MENDIOLA: So, that, if
14 you will, is the long term result of this project, is to
15 institutionalize that kind of material into a constant
16 everyday process that you have at the site?

17 MR. SCHRAUDER: Yes.

18 MR. MENDIOLA: So, it would
19 show itself in a latent issue?

20 MR. SCHRAUDER: The Latent
21 Issue Review Program will be the institutionalization of
22 systematic reviews of systems to assure ourselves that we
23 maintain them in full stead.

24 MR. MENDIOLA: Okay, thank
25 you.

1 MR. SCHRAUDER: Okay, the
2 results of the project. Four of the systems that were
3 looked at, NPR was able to fully validate their safety
4 functions; that's the High Pressure Injection System, the
5 Main Steam System -- Steam Generators and the Safety
6 Features Actuation System.

7 You see there are additional systems that we still
8 require, as Jack asked about before, additional analysis to
9 confirm or identify that the safety system could not be,
10 the safety function could not be validated. Those systems
11 are listed there.

12 We have a fairly high competence level that when
13 we're through with all the analysis, that we will be able
14 to demonstrate that each of these systems was capable of
15 performing its safety function. We have just not yet
16 completed all those reviews, and some cases may have to do
17 some recalculation, some reanalysis to show that.

18 Do you have a question, Jack?

19 MR. GROBE: I wanted to make
20 sure I understood the totality of the results. These
21 results on this slide, called Project Results; those are
22 the results of the Validation Project. You had seven
23 additional systems that you looked at under Latent Issue
24 Review and Self-Assessments. How many of the systems from
25 those additional seven fell into the fully validated

1 category and are requiring additional analysis category?

2 MR. SCHRAUDER: I would tell
3 you from the Latent Issue Reviews, that none of those
4 systems were fully validated when they went through their
5 Latent Issue Reviews, and they would fall into the same
6 category of some of those. Again, they were questions that
7 were asked that the individuals could not either find the
8 documentation, or in some cases there was conflicting
9 information. I will tell you, none of the Latent Issue
10 Reviews would result in what we would say their safety
11 function was validated.

12 Many of those issues we have resolved along the way;
13 have not yet reached the point where we have declared any
14 one of those systems completely validated yet.

15 MR. GROBE: And the two
16 systems that you did Self-Assessments on, those also were
17 not fully validated?

18 MR. SCHRAUDER: Right. The
19 ones that we did Self-Assessments on are included in the
20 Safety Function Validation Project.

21 MR. GROBE: I see. So,
22 the total then is 13 systems.

23 MR. SCHRAUDER: The total is
24 15 systems; 5 Latent Issues, 2 Self-Assessments that were
25 redone in the Safety Function Validation Project, and then

1 8 additional systems. So, the total amount of systems we
2 looked at in this level of detail was 15.

3 MR. GROBE: I think I
4 understand. Thank you.

5 MR. SCHRAUDER: So, each of
6 those additional analysis required, again are entered into
7 the Corrective Action Program. And in many cases or
8 several of the cases, for instance, Low Pressure Injection
9 System, there is one function of that system that yet has
10 to be validated. Then, we're working through those
11 issues.

12 Any other questions on the Safety Function
13 Validation Project?

14 MR. PASSEHL: So, I guess
15 on your slide 22, you don't have all 15 systems listed on
16 here; you have 8. And there is an extra 7?

17 MR. SCHRAUDER: Actually, all
18 of them that were comprised within the Safety Function
19 Validation Project are here. Where it's the Electrical
20 Distribution Systems, that includes 125 Volt/250 Volt DC
21 System, the 4160 Volt AC System and 480 Volt AC System.

22 One of the good things, I would say, that came out
23 of it or one of the encouraging things, is we looked at the
24 electrical distribution systems, we were not able to fully
25 validate that, but all but one I believe of the issues that

1 came out of the Safety Function Validation Project had been
2 previously identified in the System Health Readiness
3 Reviews that we had done.

4 The process that NPR did, they didn't look at what
5 had already been identified for those systems. They merely
6 identified the safety function they were trying to
7 validate, find what documentation they could have, created
8 their questions or their issues, and then they looked to
9 see if that issue was already addressed in the Corrective
10 Action System.

11 And, for the Electrical Distribution System, like I
12 said, with the exception of the battery issue that was
13 raised, all of those conditions had been identified under
14 the System Health Readiness Reviews, even though those
15 reviews were not really targeted at a detailed analysis of
16 the calculations and the design basis information for those
17 systems.

18 So, I think it just, in my mind it adds some
19 credibility, I would say, to the System Health Readiness
20 Reviews. And, that was a comment that NPR made to us
21 also.

22 MS. LIPA: The question I
23 have -- excuse me, Jack. Maybe you're going to get to it
24 later. At what point will you be at or where are you in
25 the process of determining if any of these are passed

1 operability, past reportability, LER-type issues?

2 MR. SCHRAUDER: All of those
3 issues still have to be evaluated and it will depend,
4 obviously, that's what the evaluation is doing. Can we
5 determine or demonstrate operability from a going forward
6 prospective, and also we will have to look back and
7 determine its past operability if, the function is in fact
8 found to be not able to be validated.

9 That's all part of the normal condition reporting
10 process. And we're working through those Condition
11 Reports.

12 MS. LIPA: So, you haven't
13 even gotten to the point where you've determined that it
14 would be reportable to start the 60 day clock from any of
15 these issues?

16 MR. SCHRAUDER: That's correct.
17 The other thing that we did find -- sorry, Jack -- in this
18 process, both in the Safety Function Validation Project and
19 the, what I'll get to in just a minute, as we're looking at
20 the topical issues; we did confirm what we suspected; that
21 is, we have a lot of help in looking at these reviews and
22 going through documentation for the plant calculation, with
23 a lot of people that are not familiar with our design or
24 licensing basis; they're not familiar with the
25 calculational structures and where to find information.

1 And they, as we told them, don't spend a whole lot
2 of time. If you can't find the information, generate the
3 CR, get it into the system, and we'll turn people loose on
4 going down it.

5 We did in fact, have in fact found numerous examples
6 of where the information was in fact contained in
7 calculations if you knew your way around it, could find
8 it. You know, there are certain aspects of those Condition
9 Reports that are attributed directly to what we are
10 licensed to and what our design basis is. So, a lot of the
11 issues are not issues. They're simply questions that were
12 raised and are easily answered once you get the
13 calculations out and can demonstrate it.

14 I have a percentage for you on that, but there are a
15 lot of them in there that-- and that was done by intent.
16 We wanted them to get the reviews done. If they had
17 questions, don't stop the review, get them into the
18 process, and we'll get to those as we can.

19 MR. GROBE: Just a comment,
20 Bob, so that you and your licensing folks can anticipate
21 our needs. Recognizing the number of design questions
22 you're still in the process of resolving. We discussed
23 this, this morning, and internally in a panel meeting;
24 determined that it might be appropriate now to start weekly
25 calls with your Regulatory Affairs Group to track the

1 resolution of these questions. I anticipate that there is
2 a possibility there may be some licensing questions that
3 come up in the course of resolution of these issues. And,
4 early dialogue will help us be prepared to understand those
5 issues, and help you understand our perspectives on them.

6 So, I've asked Tony and Jon to set up with your
7 staff, your licensing staff, some weekly dialogues to go
8 through the status of these issues and identify the ones
9 that have the greatest risk of needing licensing work, so
10 that we can be prepared to do that.

11 MR. SCHRAUDER: I think
12 that's a good idea, Jack. I can tell you that there is one
13 that came out of the Safety Function Validation Project
14 that I know of, and that's on the differential pressure
15 trip set point that the steam feedwater control system,
16 where the tech spec value is nonconservative relative to
17 the design basis calculations. In that case, we will have
18 the procedure for that, looks like it was also
19 nonconservative relative to the calculational base behind
20 it.

21 What we have to do now is look at where do we
22 actually have the trip set point set. And, also make sure
23 that the procedure now aligns with the design basis, and
24 then we'll have you come in with a license amendment
25 request, to change the tech spec, because the tech spec

1 value is a nonconservative tech spec and follow NRC
2 guidelines on how you handle those issues also.

3 There are some licensing issues that will come out
4 of it.

5 MR. MENDIOLA: Bob, I'm going to
6 ask the stupid question here. You started out on slide 20
7 with 15 safety systems. Okay. Slide 22 only has 8
8 listed. I can only assume from your response earlier that
9 all the Electrical Distribution System systems, if you
10 will, the 15, are listed at the bottom there. They're all
11 compressed into one bullet?

12 MR. SCHRAUDER: Let me go
13 through the 15 systems for you clearly.

14 MR. MENDIOLA: Basically,
15 the very simple question is, where is the other 7?

16 MR. SCHRAUDER: Let me go
17 walk through it for you. There were 15 total systems.
18 Five of them were completed under the Latent Issue Review.
19 They were not looked at in the Safety Function Validation
20 Project. Okay. That leaves 10 systems.

21 If you look at the slide you're looking at, there
22 are eight bullets there. The last bullet, the Electrical
23 Distribution System is actually three systems; 125 Volt
24 DC-- 125/250 Volt DC, the 4160 Volt AC, and 480 Volt AC.

25 So, that should be ten systems there and the five

1 from the Latent Issues Review.

2 MR. MENDIOLA: Okay. Thank
3 you.

4 From the systems requiring additional analysis, was
5 there any, for lack of better terminology, red flags or
6 anything to cause, anything that we should, if you will,
7 start focusing on?

8 MR. SCHRAUDER: The one that
9 I don't have a very clear path to how it's going to be
10 resolved yet I'll talk about; and that's the Low Pressure
11 Injection System of the Decay Heat System. The safety
12 function there that we're trying to validate yet or need to
13 relook at is the, we have two methods of Boron
14 precipitation control post LOCA.

15 Our secondary method for Boron precipitation control
16 post LOCA is through the decay heat drop line, where you
17 have one low pressure injection system taking suction from
18 that for the purposes of precipitation control; you have
19 the other LPI system injecting into the vessel.

20 Early tests for the plant identified that the net,
21 to satisfy the net positive suction head requirements for
22 that pump for Boron precipitation control required eleven
23 inch height in the drop leg.

24 This review identified that the calculational basis
25 identified that if you're injecting an LPI pump, were

1 running at runout, it could only supply seven inches of
2 head in that drop line.

3 So, the analysis that we're going through right now
4 is there is some questions on the validity of the test,
5 because it was not really run, Boron precipitation control
6 wasn't considered at the time the plant was licensed. It
7 was a later addition. So, the test that was done was
8 really not for the purposes of establishing precipitation
9 control. So, once they got to a certain level, eleven
10 inches, ran it there for a certain time; they said, okay,
11 end the test, we'll draw a curve from that.

12 During the course of that test and looking at the
13 data now, and the reason they stopped at eleven inches, was
14 testers believed that they heard cavitation in the pump at
15 that level. Going back and looking at the test data now,
16 what's believed is what they were hearing was air entrapped
17 in the system from the previous test; and that they're
18 looking at pressure gauges and discharge pressure from the
19 pump, you know, being able to show the pump couldn't have
20 been cavitating with the kind of pressure indications that
21 you had there.

22 And so, Framatone was working with us in resolving
23 this. When I say I don't have a clear path to solution on
24 this, we're either going to have to demonstrate
25 analytically with the data we have available that the

1 required height is much less than eleven inches and you
2 could have met that safety function; or we're going to have
3 to take, we're going to have to test that under, in a
4 mockup facility and reestablish what the actual height is.

5 So, that's one of them I would say, yeah, we don't
6 have a clear answer on that one yet, but I believe there is
7 two paths to pursue on that one.

8 MR. MENDIOLA: Okay, thank you.
9 I'm just curious on the timetable for when this information
10 might be more readily available to us? Will be a while
11 off?

12 MR. SCHRAUDER: Which information,
13 Tony?

14 MR. MENDIOLA: Well, things like
15 you just brought up; your response and your reaction to how
16 you're going to conclude that analysis, and conclude this
17 issue?

18 MR. SCHRAUDER: It will be
19 available to you as soon as we know which way we're going
20 with it. Some of these issues just are being evaluated.

21 MR. MENDIOLA: Okay, I
22 understand.

23 MR. SCHRAUDER: Okay, emergency
24 core cooling system, HVAC system, that's another one that
25 relates back to the ultimate heat sink temperature. That's

1 really an environmental qualification issue, where the room
2 was originally, max temperatures was expected to be 125
3 degrees in that.

4 When you include two issues in there; the high
5 pressure injection pump running in the room was not
6 considered as a heat addition to the room, and it needed to
7 be; also, when you looked at the impact of raising the
8 temperature to 90 degrees, and the potential for separation
9 from the lake, if you will, and the heatup of the forebay,
10 the bottom line conclusion was that the actual maximum
11 temperature in that room would rise above 125, and would
12 peak somewhere around 133 degrees.

13 So, we had to go relook at all the equipment in the
14 room and see, will it withstand 133 degrees. We have
15 looked at that, and we have one relay that was qualified
16 for 125. We don't have, I don't believe we have right now
17 sufficient information to say it works at 133. So, we
18 still have some more analysis to do with; if there is other
19 facilities that have tested it higher, we'll probably take
20 that relay out and qualify it to a higher temperature to
21 verify that it would have functioned at 140 degrees. And
22 we may have to go out and buy a replacement relay for
23 that.

24 That's the type of issues that we're dealing with,
25 on those unvalidated systems yet.

1 MR. MENDIOLA: Okay, thank you.

2 MR. PASSEHL: I would have an
3 additional question. You mentioned on slide 18, your
4 Safety Function Validation Project, you stated that you're
5 completed with that. Yet on slide 22, you got all these
6 systems requiring additional analysis. What did you mean
7 by completed with that?

8 MR. SCHRAUDER: The Safety
9 Function Validation Project was a defined scope of work
10 that NPR did for us. They performed that issue for us.
11 They have turned over the results of that and said, here
12 are the things that we could not validate. So we then put
13 them into the Corrective Action Program where we will have
14 to resolve those, but the project itself is completed.

15 MR. PASSEHL: I understand.
16 And, then your five systems you did on the Latent Issue
17 Reviews; Reactor Coolant System, Aux. Feedwater --

18 MR. SCHRAUDER: Service Water.

19 MR. PASSEHL: Are those fully
20 validated?

21 MR. SCHRAUDER: No, that's the
22 question Jack asked before. None of those systems were
23 fully validated in the Latent Issue Reviews either. So,
24 the same process is ongoing for them; further analysis,
25 further research.

1 MR. PASSEHL: Okay, thank you.

2 MR. SCHRAUDER: Okay. The other
3 thing, Path C was the Topical Issues. And the Topical
4 Issue Reviews are not done yet, not completed yet. Those,
5 again, I have identified before is Seismic Qualification,
6 High Energy Line Break, Environmental Qualification,
7 Appendix R Safe Shutdown Analysis and the Station
8 Flooding.

9 Described briefly here, the process we're going
10 through to review those. We're doing Collective
11 Significance Reviews on those topical areas. We're
12 looking, we're using a Nuclear Operating Business Procedure
13 that, it's a relatively new procedure that we've developed,
14 across FENOC. It's specifically aimed at Collective
15 Significance Reviews. It provides us with a consistent
16 process and consistent format for the analysis of those
17 systems.

18 We'll use the Condition Report Data Base to pull all
19 the issues that have been identified relative to those. We
20 would bin those Condition Reports, much like we did in the
21 Safety Function Validation Project, into specific topical
22 areas within that topic. And then, we'll look at those to
23 see whether they have implication, problematic implications
24 to those topical areas, and we'll also conduct an extended
25 condition evaluation for the area where that's warranted.

1 Then, we'll determine, schedule again the Corrective
2 Actions that come out of that, go into the system to
3 determine whether they need to be done prior to or post
4 restart and we'll schedule those Corrective Actions.

5 Then, when the report is written, it will go through
6 our Engineering Assessment Board to review the results of
7 that process also.

8 Those things, I'm going to say they're probably 75
9 to 80 percent complete right now, some in a more of a state
10 of completion than others. I expect that they will be, the
11 reviewers should be completed with their work this week and
12 then they will be scheduled for AP Review within the next
13 week or so.

14 MR. GROBE: Bob, are the
15 reviews completed sufficiently that you can give us some
16 insight on how many of the areas warranted further extended
17 condition review?

18 MR. SCHRAUDER: I can speak to
19 one, Jack, that I've looked at pretty much. That's the
20 Seismic Category.

21 Seismic Category had identified several things. Two
22 over one criteria. Much of that was a, restraints of some
23 temporary equipment. We also looked at the impact of the
24 Boron deposits that were in the containment. Did they
25 impact the seismic capability of the systems they were on?

1 We found that they did not.

2 We had one issue that came out of this, was a
3 relatively old issue though. Early in the plant's life, we
4 got some of these relays, HFA relays that were identified
5 under GE SIL. I can't recall what SIL stands for.
6 Notification to industry from a vendor.

7 MR. POWERS: Service
8 Information Letter.

9 MR. SCHRAUDER: Service
10 Information Letter. Thanks, Jim.

11 We had bought these relays by way of a third party.
12 We didn't get them directly from GE. We were not on their
13 vendor list for them. So, we did not get the information
14 in when they put it out, that these relays needed to have
15 certain adjustments or checks to see if they needed
16 adjustments periodically.

17 I think we had about five of those. We identified a
18 few of those and we did do an extended condition to find
19 out how many of these HFA relays do we have. We'll go out
20 and perform the set point checks on that.

21 And then we did confirm that we plugged that gap in
22 the process, a third party vendor, we would get information
23 on their products. And this was, was found to be isolated
24 in this case, with GE. I think we had gone through
25 Westinghouse that that had been corrected in the past.

1 Another one we did find that we had to do an
2 extended condition on the seismic was, our process a couple
3 of years ago has had some discrepancies in the seismic and
4 safety classification, where you might in the safety,
5 safety/nonsafety boundary at say an open root valve,
6 downstream up there, you might have a transmitter or
7 something that needed to be qualified for seismic
8 purposes.

9 Either was not reflected properly on the PNID's, or
10 the data base that we use to track that; had it confusing
11 to modification, if you're putting it in.

12 We went back and did an extended condition on that,
13 to see. We looked back to the point that that confusion
14 was introduced into the system and looked back at all the
15 mods done since that time. And I believe that resulted in
16 identification of five transmitters that needed to be
17 looked at. Two of those were original purchases, and they
18 were, did have the proper qualification to them. We had to
19 replace three transmitters. That's an example of an
20 extended condition that came out.

21 One final one was a, I don't know if you recall this
22 or not, but there was an issue again on the seismic
23 classification in the service water pump bay, if you will.
24 And the cooling tower makeup line went through there. And,
25 it was supposed to be seismic. And it was not seismic. It

1 was not installed seismically.

2 So, we had to do an analysis to show. We used a
3 methodology to determine the line would have withstood the
4 frequency, the resonance frequency for the earthquake. We
5 used that method to show it would have withstood the
6 earthquake effects, but we are also going back and making
7 that seismic now.

8 That resulted in an extended condition, so we had to
9 go out and look at other systems where there were multiple
10 trains or multiple systems in a single area that could be
11 impacted by that event. And, by that situation, we found
12 four or five other areas that we had to go look at. All of
13 those turned out to be acceptable.

14 That's the kinds of things we're finding in the
15 extended conditions that we're doing as a result of.

16 MR. GROBE: Okay, thank
17 you.

18 MR. SCHRAUDER: That
19 concludes my discussion, unless there's -- well, there is a
20 summary slide here that says, as I said before, we did show
21 good correlation with the System Health Readiness Reviews.
22 We do have more analytical work ahead of us to be able to
23 fully validate some of the safety functions. We have yet,
24 we have not identified any major modifications necessary as
25 a result of the Safety Function Validation; or so far, the

1 Topical Area Reviews.

2 And we did confirm, I think what we had already
3 said, that there was some rigor in the calculations,
4 clerical calculations that was lacking.

5 MR. GROBE: Thank you.

6 MR. SCHRAUDER: With that, I turn
7 it over to --

8 MR. MYERS: Me.

9 MR. SCHRAUDER: Lew Myers.

10 MR. MYERS: Thank you.

11 I have to sort of shift gears now, talk about
12 providing you some information in a few areas first, give
13 you a snapshot of the January the 30th meeting that we had
14 with the Nuclear Regulatory Commission in Chicago to
15 discuss Safety Culture and Safety Conscious Work
16 Environment.

17 Second, to status our Restart Readiness Review
18 Meeting that we had, where we looked at -- once again, I
19 want to make this clear, we only looked at fuel, because
20 Restart Readiness Review Meeting was not prepared, designed
21 to look at restart. We do various Restart Readiness Review
22 Meetings as we change operating modes of the plant, so I'll
23 provide you some observations of the one we did for fuel
24 load.

25 And, finally, I'll provide you status of how we

1 addressed the safety, Safety Culture readiness for fuel
2 load. That will be the first time we've done that.

3 First, I would like to give you a little background.

4 The Root Cause Report for the Reactor Vessel Head was
5 presented last August. In that report, there were
6 basically five overall conclusions that we had.

7 First, we found that there was a production focus
8 established by management combined with taking minimum
9 actions to meet regulatory requirements and in some cases
10 we did meet the minimum action, and that resulted in
11 acceptance of degraded conditions. Item number one.

12 Second, we found that Davis-Besse had been operating
13 a long time as basically an isolated plant. As you
14 remember, FirstEnergy is a fairly new company. And then we
15 took over the Beaver Valley Station. So, if you look at
16 our Davis-Besse station, all our performance indicators
17 were running along pretty well. So, from a FirstEnergy
18 standpoint, it was still being operated sort of as a
19 stand-alone plant.

20 Third, a large number of Condition Reports were
21 identified by our employees. There was like over twenty
22 Condition Reports written, but they weren't properly
23 classified or evaluated. If they had been, we wouldn't be
24 sitting here today. So, the employees were writing and
25 identifying problems.

1 Fourth, our Quality Organization reported to the
2 site staff for many years, and as a result their
3 effectiveness was limited. In fact, they became part of
4 the same culture, if you will. And when you read back on
5 the reports, some of the conclusions that they drew based
6 on the findings, it's hard to correlate those conclusions
7 as being accurate.

8 Fifth, Operations was not actively involved in the
9 role of improving the plant conditions. Somewhere along
10 the line, over a long length of time, sort of have a
11 different role with Randy and I, than others have seen
12 traditionally in other nuclear stations.

13 With that, those are the areas that our Root Cause
14 sort of focused on, and I would like to provide you with
15 now the next slide. The definitions of what we've given
16 our employees, as Safety Culture and Safety Conscious Work
17 Environment.

18 We divide those things into two areas, and
19 basically, two different definitions. Let me tell you
20 why. From a Safety Culture standpoint, we define that as
21 the "assembly of characteristics and attitudes", so both
22 characteristics and attitudes, "in the organization", which
23 is organization, you're looking at the organization; "and
24 individuals", so, what they see from, "which establishes an
25 overriding priority towards nuclear safety activities and

1 ensures that issues received the attention warranted by
2 their significance."

3 Write a CR, properly classified. If you're out
4 doing a job in the field, you get the right management
5 oversight. That's what we're talking about here.

6 From a Safety Conscious Work Environment standpoint,
7 it's "That part of a Safety Culture", if you will,
8 "addressing employee willingness to raise issues and
9 management's response to these issues." So, they have an
10 environment that encourages them to identify problems.

11 Next slide.

12 At that meeting, we provided the NRC a management
13 model. Once again, I want to stress this. This is a
14 management model. It's not an employee model. And this,
15 it's not designed to establish the perfect employee.

16 It can and should be used to help management and
17 ensure that the correct standards are present in the
18 organization, and that our standards are properly being
19 understood by our employees, and then be implemented into
20 the field. Are we sending the right message to our
21 employees? That's the real question.

22 There are three commitment areas that we discussed
23 with the NRC at that meeting, and 14 individual commitments
24 that we also discussed that we monitor effectiveness in.

25 Now, let me go through those.

1 First is the policy level commitment. That policy
2 level commitment has to do with the message that we send
3 from our corporate organization. Are our policies correct
4 from a safety standpoint? The management value structure
5 that we have. Do we understand our value and vision and
6 are they being properly implemented in the field. The
7 resources that we provide; the same thing from time, money
8 to people.

9 And then, finally, the oversight that we provide,
10 from not only a quality oversight point-- standpoint, but
11 from a self-assessment standpoint. Those are the type of
12 things we're talking about there.

13 Then you move on into the management commitment
14 area, if you will. The commitments under there are
15 emphasis on safety. Do we send the right messages daily,
16 when we find issues? That we understand the
17 responsibilities of the managers and the organizations and
18 are we cohesive as a team. And that was an area that we
19 really want to start focusing on. I would tell you that we
20 were sort of in isolationism in our group.

21 Then finally, accountability of responsibility. Do
22 we understand who is responsible? That accountability is
23 clear. Qualifications in training is more than just
24 maintenance or operator training; it's leadership training,
25 it's management training, and supervisor skills training

1 also. Then, high organizational commitment to safety. Are
2 we really committed to it? Do we send those messages?

3 And then, finally under the individual area, you can
4 focus on the nuclear professionalism. You know, what do
5 people, what do they understand technically when they're in
6 the field. I mean, do you understand what you're dealing
7 with and do you have the right sensitivity to those issues?

8 Open communications. That's the vertical
9 communications within our organization. And then rigorous
10 work control. That's more than just going out working a
11 work package. Are the engineering documents that we
12 prepare quality documents? And one that I know is close to
13 our heart right now are the RWP's that we prepared,
14 radiologic standpoint, thorough and accurate. So, it's
15 across the board from a work control standpoint.

16 Questioning attitudes and overall drive for
17 excellence, and maintain our plant, and improving safety
18 margins from cycle to cycle, both from a personnel
19 standpoint, but also from a material standpoint.

20 With that being said, let me go through some of the
21 actions we're taking very quickly. These are just, you
22 know, just a snapshot of the actions that we shared with
23 you all guys in the January 30th meeting.

24 First from a policy standpoint, we started taking
25 many of our actions back in the May time frame in 2002,

1 after we finished our Technical Review. The first action
2 we took was create a management structure for oversight,
3 and took the action to sponsor the Management/Human
4 Performance Report that we shared with you in August.

5 And then, after that, our FirstEnergy Board of
6 Directors issued a resolution on nuclear safety. That's
7 what we think should be the genesis of the standing in our
8 company. From that point on, Bob Saunders provided two new
9 policies; one on Safety Culture and one on Safety Conscious
10 Work Environment.

11 We've now met with all of our employees and trained
12 all employees at FirstEnergy Nuclear Operating Company on
13 those policies. We strengthened our Incentive Program,
14 which we talked about with the root cause to focus on
15 safety.

16 We've established and implemented an executive level
17 organization, if you will. We now have the Quality
18 Assurance Manager, the Executive VP of Engineering and
19 Chief Operating Officer position at our corporation -- at
20 our corporate offices. And if you go look at this alone,
21 it would have prevented some of the isolationism and
22 assured standardization of our processes, and it would have
23 probably improved the quality, the quality of the oversight
24 documents that we looked at and may have resulted in us not
25 being here today.

1 We strengthened our Employee Concerns Program. We
2 work hard to make sure that's an anonymous program and
3 people feel free to come forward with that, into that
4 program and address issues. And, we're seeing good
5 improvement there.

6 From a management standpoint, you know, I talked at
7 that meeting about our management team. Today up here, you
8 know, I think it's our senior team. We're technically
9 involved with things going on at the plant. Before we came
10 here today, we took time looking at the videotape of our
11 reactor vessel, so we could understand the cleanliness
12 requirement, you know.

13 We talked somewhat about that, but the management
14 team we have in place at our station has over 460 years of
15 nuclear experience. Most of them are SRO, most of them are
16 degreed individuals with advanced degrees. And what's more
17 important than that, they're proven leaders in industry. A
18 lot of us have worked other places, worked at our other
19 plants and we're a pretty well known commodity. So, we
20 really believe that we really strengthen the leadership
21 team for the plant.

22 Additionally from a, a standpoint of what failed;
23 Tony, you asked a question awhile ago about the Corrective
24 Action Program. If we're going to restart our plant, we
25 have to make sure that our Corrective Action Program is

1 working properly. I mean, it is the backbone of how we
2 identify problems, where we put things. Once we stick them
3 in there, they can't get lost. They might not get worked
4 on, but they can't get lost.

5 So, it's imperative that we properly classify and
6 then evaluate issues. And, what we've done to strengthen
7 that is our Corrective Action Review Board. Now it's
8 chaired by Randy Fast. On there we also have engineering
9 managers and the Operations Manager. So, we really, really
10 escalate the duties and responsibilities of that board,
11 their performance indicators, and tried to strengthen the
12 Corrective Action Program.

13 Additionally now, once we solve our problem that our
14 employees had given us, we send each and every employee
15 back an email telling them how we solved their problem.
16 So, we think we're improving that program a lot.

17 We improved our leadership conferences. You know,
18 one of the things we now have, we evaluate each and every
19 one of our managers, supervisor yearly; and we're in the
20 process of doing that right now. We've added two new
21 conferences that focus on safety. So, that's new for us.

22 We've strengthened our problem solving and
23 decision-making nuclear operating procedure. As I think
24 Christine knows, we have a procedure that we used at Perry
25 for decision-making; stop, analyze the problem, get the

1 right people involved, use the right techniques.

2 You know, we did not have that at the Davis-Besse
3 Plant, so we've turned that into a nuclear operating
4 procedure that's now used every day at all of our plants,
5 called morning phone call. We have a morning phone call
6 7:30, just about every day you can hear somebody talking
7 about an action plan they developed for one of the nuclear
8 operating decision-making models. So, we think that's
9 really strengthened the way we -- when we find problems,
10 that we deal with them.

11 Then, Engineering Assessment Board is now in place
12 at this station to look at the engineering products. And
13 probably if they looked at some of the engineering products
14 that were sent out in the past, we wouldn't be here today.
15 So, we think we're seeing good improvement there.

16 Now let's move on to the individual. We've talked
17 about the Reactor Vessel Head Group Training that we've
18 done, if you will, where we sit down each and every group
19 individually, and went through, in depth training on this
20 event and how your particular group was involved with this
21 event; how we should have found it earlier. Then we went
22 through the group standards and we tested each and every
23 person on site. So, that's complete.

24 The Town Hall Meetings are basically weekly. We may
25 miss a week every now and then, but usually weekly. Randy

1 says we have a hundred people. Jim says we have 40. So,
2 we typically have somewhere between 100, 140 people.

3 I don't know how I came up with that math, but
4 sometimes they're very large groups and sometimes there are
5 groups where I've attended meetings of about 40 people.

6 If you go look, I talked about our 4-C's Meetings.
7 I try to have one of those meetings basically weekly with
8 our employees. I've now met with over 500 of our
9 employees. And, you know, it's really interesting. I
10 think it's time for maybe one of you all to come in and sit
11 in on one of those meetings. Our employees are brutally
12 honest. That's one thing I'll say about them. I think
13 those meetings are good.

14 The one thing that I see coming out of that, is a
15 willingness of the employees. When we do these meetings,
16 we have, we have the team meet together to identify their
17 concerns and their compliments and everything. So, I want
18 to know who wrote the question out. Then, when I come into
19 the meeting and go over all those things, I prepare and try
20 to be able to give them good responsive answers.

21 And what I'm finding now more and more at those
22 meetings, as I bring up the questions, the employees will
23 say, well, this was my question, which shows me it's the
24 environment I'm looking for. So, I think those meetings
25 have been very valuable.

1 There is something that I believe, they tell me in
2 the years that they've been at Davis-Besse, they've never
3 had an opportunity to sit down with a VP and be able to
4 talk with him. I don't quite understand that, but that's
5 something we should keep a permanent part of our system in
6 the future; and we intend to.

7 Finally, we created -- we had operability training,
8 as you know. And our Root Cause Report, our Operations
9 Group was lax on, prove to me this is operable; come to me,
10 engineering, show me why it's operable. And, we were doing
11 some things by telephone that we shouldn't have. So, we
12 reevaluated the operability process, provided training to
13 all of our engineers, all of our operators. I think you'll
14 find that very challenging, operability issues now.

15 And then finally, we went back and we requalified
16 each and every one of our root cause evaluators. Those are
17 just some of the actions we have taken. There may be
18 more.

19 The next area, I want to talk about is --

20 MR. GROBE: Before you go on,
21 I have a question on slide 30. I wanted to hear this slide
22 31 material before I asked it.

23 In the 3 areas; policy, management and individual,
24 you have four to five assessment attributes, I guess.

25 MR. MYERS: Right.

1 MR. GROBE: In each of those
2 assessment attributes, there is a number of data sources
3 that goes into your assessment in that area. Have you
4 developed that sufficiently that it's on paper, it's
5 something that's ready for us?

6 MR. MYERS: We used it, Jack.

7 MR. GROBE: Pardon me?

8 MR. MYERS: We used it during
9 the Restart Assessment. Now that we've used it, we're
10 going back and modifying it some, but it's actually been
11 used. I'm going to talk about that, as a matter of fact.

12 MR. GROBE: Okay, good.

13 MR. MYERS: In our Restart
14 Readiness Review, let me tell you, the purpose of that
15 meeting is not to justify why we should load fuel, the
16 purpose of that meeting is to determine why we should load
17 fuel. You know, do we have a consensus around the table
18 that loading fuel, we're ready to load fuel. And, we'll do
19 that for Mode 4 and other times.

20 As Randy said, the meetings, this meeting went on
21 for five and a half days over a several week period. If
22 nothing else, it was a good team building session. Start
23 off not doing as well as I would have expected on
24 presenting their areas, but ended up I thought fairly
25 well.

1 What we do there is we bring each and every group in
2 our station in, and the groups come in and explain why
3 their organization is ready to load fuel. Do you have
4 the -- and we have a list of questions that we go through;
5 3 or 4 page list that they need to be able to answer.

6 Do you have the people in place that you need? From
7 a health physics standpoint, do we have all the areas
8 locked that we need to go lock up now to load fuel? Do we
9 have the organization in place? What is different now
10 than it was before, you know? So, they need to be able to
11 answer those questions.

12 We also have a group of questions they have to ask
13 about Safety Culture in those areas. So, each and every
14 group, we grade those groups on their Safety Culture,
15 their readiness to move forward. And they would go through
16 this question list on a group basis.

17 Additionally, we look and make sure that we feel the
18 whole plant staff, at the end of the meeting, we sit around
19 the table and go through those questions again. That's
20 where we sit down and grade each of the areas as a total.

21 For example, suppose we have a manning problem in
22 one group, which we did. But as a site, do we think we
23 have a manning problem, we're working excessive hours or
24 something. So, we analyze that and then grade that
25 particular area based on what all we've heard.

1 The other thing we do is we look at several key
2 programs. For now, we've looked at the groups; what are
3 the key programs? Some of the programs we went through are
4 Corrective Action Program, what's it tell us; the
5 Management Observation Program, the Radiological Control
6 Program, the Reactor Coolant System Leakage Program and the
7 Employee Concerns Program, which is, what does the Employee
8 Concerns Program tell us now? Are our people willing to
9 bring issues forward?

10 Also, from an engineering standpoint, let's talk
11 about the systems we need for, for fuel load. We actually
12 bring the System Engineers in and go through the systems
13 and let them convince us that their system is ready to
14 support fuel load. And out of that we found a lot of
15 interesting things. Also, at the end of the meeting then,
16 we're ready to grade the overall assessment of Safety
17 Culture, if you will.

18 Now, as we do that, what we've done, is the way
19 we've done that at this meeting, we took each individual
20 group and we graded either green, white, yellow or red.
21 You can read the definitions, I won't read each one.

22 To be green, all major areas are acceptable with a
23 few minor deviations. From a white standpoint, all the
24 major areas are acceptable with a few indicators requiring
25 management attention. Then, you get down in the red area,

1 and you would say it's just not acceptable. We have to
2 take immediate management attention. So, that's sort of
3 the grading process we went through.

4 Next slide.

5 Once again, what I tried to do here is to indicate
6 that we just don't take one, one issue like, all the
7 groups, do they feel like they have the right man. What we
8 try to do is take our performance indicators, went and
9 looked at our backlogs, we looked at our risk indicators,
10 our management observation programs. What are they telling
11 us?

12 For instance, we went through our management
13 observations. We could tell that we had a high number of
14 management observations requiring coaching, more than we
15 typically see at our other plant.

16 We looked at how we've demonstrated our performance
17 during recent plant critical evolutions. For example, one
18 of the things we looked at in this issue was when we filled
19 the reactor cavity for the first time. Then, feedback from
20 our Independent Safety Culture Review Process, which is --
21 and Quality Assessments; they also provide us some input.
22 And, then Doctor Haber will look at that process too. How
23 do we need to use that process to help strengthen the one
24 we have in place.

25 Now, let me go through what we found. You go look