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3	PUBLIC MEETING BETWEEN U.S. NUCLEAR REGULATORY COMMISSION 0350 PANEL
4	AND FIRST ENERGY NUCLEAR OPERATING COMPANY OAK HARBOR, OHIO
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6	Meeting held on Tuesday, February 11, 2003, at
7	2:00 p.m. at the Camp Perry Clubhouse, Oak Harbor, Ohio, taken by me, Marie B. Fresch, Registered Merit Reporter, and Notary Public in and for the State of Ohio.
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10	PANEL MEMBERS PRESENT:
11	U. S. NUCLEAR REGULATORY COMMISSION
12	John "Jack" Grobe, Chairman, MC 0350 Oversight Panel Christine Lipa, Projects Branch Chief
13	Douglas Simpkins, NRC Resident Inspector Jon Hopkins, Project Manager Davis-Besse
14	Anthony Mendiola, Section Chief PDIII-2, NRR
15	Dave Passehl, Project Engineer Davis-Besse
16	FIRST ENERGY NUCLEAR OPERATING COMPANY
17	Lew Myers, FENOC Chief Operating Officer
18	Robert W. Schrauder, Director - Support Services
19	J. Randel Fast, Plant Manager James J. Powers, III
20	Director - Nuclear Engineering Michael J. Stevens,
21	Director - Work Management Steve Loehlein,
22	Manager - Quality Assurance
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1	MS. LIPA: Okay. Good
2	afternoon. Can you hear me in the back? Good.
3	Okay. Well, welcome to FirstEnergy and to members
4	of the public. I'm Christine Lipa and I'm in Region III of
5	the NRC's Region III Office, and I have responsibility for
6	the NRC's inspection program at Davis-Besse.
7	And, we'll go through introductions in a moment
8	here, but let me just go to the next slide.
9	This is one of we've been having monthly public
10	0350 Meetings with FirstEnergy since last May. And, the
11	purpose of this meeting is to inform the public of the
12	NRC's Oversight Panel activities; and that's what we are up
13	here, the NRC's Oversight Panel; and, then also allow the
14	Licensee to present their status on their progress in
15	implementing their Return to Service Plan. And then, we'll
16	be discussing various parts of that plan.
17	We'll go through the rest of the you can go to
18	the next slide, which has the agenda. We'll go through the
19	rest of the introductions in a minute here.
20	Jon Hopkins is on my far left. He is the Project
21	Manager in Headquarters for the Davis-Besse facility.
22	Next to Jon is Tony Mendiola, and he is the Section
23	Chief at NRR.
24	Next to Tony is Jack Grobe. Jack is the Senior

Manager in the Region III Office in Lisle, Illinois; and

- 1 he's the Chairman of the Oversight Panel.
- 2 Next to me is Dave Passehl, and he's the Project
- 3 Engineer for the Davis-Besse Project in Region III.
- 4 And, next to Dave is Doug Simpkins, and Doug is the
- 5 Resident Inspector at the Davis-Besse facility.
- 6 Also, in the audience today from NRC we have Ivy
- 7 Netsell. She's is Resident Inspector at Cook, and she can
- 8 also get you a handout if you didn't get one when you came
- 9 in. Raise your hand, and Ivy will hand you one.
- 10 Also, we have Viktoria Mitlyng. She's our Public
- 11 Affairs Officer in Region III.
- 12 Nancy Keller is the Office Assistant for the
- 13 Resident Inspector Office at Davis-Besse, and she was in
- 14 foyer with the handouts.
- We have Jay Collins, who is a General Engineer on
- 16 rotation from Headquarters.
- 17 I also saw Rolland Lickus. He's our State Liaison
- 18 Representative. There he is.
- 19 And then our transcriber today is Marie Fresch.
- 20 And I'll turn it over to you, Lew, if you want to
- 21 introduce your panel, then I have more to say.
- 22 MR. MYERS: Fine. At the
- 23 end of table, Steve Loehlein. Steve is our Manager of
- 24 Quality Assurance. And last time we discussed that we
- 25 would like to have him here at the next public meeting, so

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- 2 seeing at our plant.
- 3 Bob Schrauder is our Director of Support Services.
- 4 As you know, he's working in the Systems Area Building
- 5 Block now.
- 6 To my right, is Randy Fast. Randy Fast is our Plant
- 7 Manager.
- 8 Jim Powers next to him is the Director of
- 9 Engineering.
- 10 And then Mike Stevens at the end is the Director of
- 11 Maintenance; and as you know, he's also the Outage Director
- 12 at the present time.
- 13 MS. LIPA: Okay, thank you
- 14 Lew.
- Also, before we get started, are there any public
- 16 officials or representatives of public officials in the
- 17 room?
- 18 MR. ARNDT: Steve Arndt,
- 19 Ottawa County Commissioner.
- 20 MS. LIPA: Hi, Steve.
- 21 MR. PAPCIN: John Papcin,
- 22 Ottawa County Commissioner.
- 23 MS. LIPA: Hello.
- 24 MR. WITT: Jere Witt, County
- 25 Administrator.

1	MS. LIPA: Okay. Anybody
2	else?
3	Okay, good, thank you.
4	Okay, next on the agenda is a summary of the last
5	monthly public meeting we had here on January 14th. I'll
6	turn it over to Tony Mendiola for that.
7	MR. MENDIOLA: Can you all see
8	that slide back there?
9	Basically, to summarize the meeting on January 14th,
10	that we had here, the discussion centered on two main
11	areas; basically, the restart preparations on both the
12	Licensee's part and actions that we have as a panel have
13	performed to date; and, then basically, we broke further
14	down to the bottom of that topics discussed area, Safety
15	Conscious Work Environment.
16	Let me recap for a moment the discussion. The NRC
17	Restart Checklist, which is basically the action matrix
18	that we're working from, we provided the update on that,
19	and then discussed the status of various inspections, most
20	of which are ongoing or will be ongoing soon; and, various
21	meetings that we were going to have in the month of January
22	and early part of February associated with the Safety
23	Culture, and other meetings that we had or supported,
24	commission meetings, and congressional briefings and things
25	like that.

1	The FirstEnergy presentation focused primarily on
2	restart. They discussed the status of the physical
3	plant; basically, the construction work and modification
4	work that was ongoing on the site. And the, their working
5	off of their condition reports and corrective actions.
6	Basically, they use very similar to the charts you see
7	there on the, I guess on your righthand side of the room
8	there, discussing the various aspects of, of their programs
9	to complete these corrective actions.
10	There is a discussion of the, the Reactor Coolant
11	System Integrity Management Program, which you can see
12	about halfway down from the top was discussed there; and,
13	basically, a continued discussion on their readiness to
14	reload the fuel and other issues associated with the fuel
15	and fuel reliability.
16	In the interest of time, we did speed up the agenda
17	and moved right into the topic of the day, which was the
18	Safety Culture, Safety Conscious Work Environment topic.
19	At this meeting, the Licensee introduced Doctor Haber, who
20	is their consultant to help them implement the new safety
21	methodology at FirstEnergy at Davis-Besse, excuse me.
22	There was a discussion, detailed discussion of the
23	FirstEnergy model for Safety Culture. And, I don't see a
24	version of it here, but the Licensee provided a
25	four-pillared graphic, which discussed basic principles of

- 1 Safety Conscious Work Environment, and four pillars that
- 2 they are focusing on to improve the Safety Conscious Work
- 3 Environment at the site.
- 4 Upon completion of that conversation, which lasted I
- 5 would say about half the meeting, we then moved on to
- 6 closure.
- 7 For everybody's interest, the transcripts from that
- 8 meeting are available on the website. And, if there is any
- 9 other topic areas you would like to, need more information
- 10 on, you can see me during one of the breaks or at the
- 11 conclusion of this meeting. That's all I have.
- 12 MS. LIPA: Okay, thanks
- 13 Tony.
- 14 Then, the next slide was the next meeting we had,
- which was on January 30th. And we had a pretty lengthy
- 16 public meeting in the Region III Office, where we discussed
- 17 with FirstEnergy their plans for assessing the status of
- 18 Safety Culture and Safety Conscious Work Environment at the
- 19 facility; and the various methods of surveys, interviews,
- 20 and attributes that will be evaluated. This included
- 21 activities that have already taken place at the facility;
- 22 those that are continuing, and those that are planned over
- 23 the coming weeks.
- 24 And the slides for that January 30th meeting are
- 25 available on our website and the transcript will come out

- 1 after we finish processing it.
- 2 I did want to mention, I skipped over a few of my
- 3 introduction remarks at the beginning, that this meeting is
- 4 open to the public, and the public will have an opportunity
- 5 before the end of the meeting to ask questions of the NRC.
- 6 And this is what we consider to be a Category One Meeting
- 7 in accordance with the NRC policy in conducting public
- 8 meetings.
- 9 We're also having this meeting transcribed today to
- 10 maintain a record of the meeting. And the transcription
- 11 will be available on our web page. We usually have it
- 12 available in about 3 to 4 weeks.
- 13 The agenda and the handouts are available in the
- 14 foyer and on the NRC's Web site. We also have the February
- 15 edition of the NRC monthly newsletter. This is a summary
- 16 we put together that has background information as well as
- 17 current activities.
- We also have a public meeting feedback form. And,
- 19 this is a really good tool for us to get feedback from
- 20 people that are here, to let us know aspects of the meeting
- 21 that we can improve on. And we've been doing that since
- 22 these started back in May. And we have actually changed a
- 23 few things, and I think we've made it a better meeting.
- 24 And then, also our handouts for today and the
- 25 Licensee's handouts.

- 1 So, let me go on with the next slide then, which is
- 2 the Restart Checklist. What I want to do here was give you
- 3 an update on where we stand on the parts of the Restart
- 4 Checklist.
- 5 The first items are the technical and nontechnical
- 6 aspects of the Root Cause, and those are still under review
- 7 by the inspectors and technical review of NRR.
- 8 The next area is the Adequacy of Safety Significant
- 9 Structures, Systems and Components. And what we've done
- 10 here is, we had several inspections that have been out, so
- 11 let me go through a couple of highlights with you.
- For Item 2A, the main item that is still outstanding
- 13 for that is the Normal Operating Pressure Test that's
- 14 scheduled after the first Mode 4. So, we'll be covering
- 15 that with a special inspection.
- 16 For Item 2B, which is Containment Vessel
- 17 Restoration, the remaining activity there is the ILRT,
- 18 Integrated Leak Rate Test of containment.
- 19 For Item 2C, we have several unresolved items that
- 20 came out of the inspection that was done, and exited in
- 21 November.
- 22 For Item 2C-1, which is on the emergency sump, that
- 23 inspection will be performed once the utility has completed
- 24 their mod package, and we'll also be inspecting the actual
- 25 sump that has been modified.

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- 2 inspectors to follow the Licensee's resolution of problems
- 3 that they've identified on boric acid containing systems
- 4 that are on-site containment.
- 5 The next area that we have is the Programs area.
- 6 And these are all programs that the Licensee is reviewing
- 7 in detail, and coming up with plans to address deficiencies
- 8 that they discovered. So, right now the inspectors are
- 9 planning to come out when the Licensee's reviews have
- 10 progressed sufficiently that there is something, a
- 11 completed product that we can inspect.
- 12 The next area is Section 4, which is the Adequacy
- 13 Organizational Effectiveness and Human Performance. And we
- 14 actually have three phases to this inspection. Phase one
- 15 has already been completed, and Jack will go through that
- in a few minutes and then we'll be continuing inspections
- 17 to address those checklist items.
- 18 Section 5, which is Readiness for Restart, these
- 19 areas are not really ready for inspection yet.
- 20 And then Section 6, which are several licensing
- 21 actions. And for all of you, licensing actions, which is
- 22 the first bullet there, the NRC has received the
- 23 information that they were waiting for from the Licensee,
- 24 and it's under NRC review, but there is no outstanding
- 25 questions. We do plan to document closure of these many

- 1 systems in Inspection Report 0302.
- 2 And then the final item on the Restart Checklist is
- 3 a meeting at the end of Confirmatory Action Letter Items
- 4 Resolution to discuss restart when the utility is ready for
- 5 that part of the process.
- 6 Okay. The next slide is, I'll turn it over to Jack,
- 7 and he'll discuss some recent inspection activity and some
- 8 upcoming inspection activity.
- 9 MR. GROBE: Thank you
- 10 Christine.
- 11 Can you hear me okay? Excellent.
- 12 We've issued one Routine Resident Report and one
- 13 Special Inspection Report since the last time we met. The
- 14 Routine Resident Report covered a broad spectrum of areas
- 15 as is characteristic of all of our Resident Reports. The
- 16 Residents are on site every day and they inspect ongoing
- 17 activities at the plant in the areas of maintenance and
- 18 operations and testing.
- 19 The Special Report that was issued concerned the
- 20 checklist items dealing with the adequacy of the Root
- 21 Causes in the Human Performance area, as well as the
- 22 adequacy of the Licensee's Improvement Initiatives. That's
- 23 Checklist Item 1 and Checklist Item 4.
- 24 The report documented the results of inspections
- 25 that covered the first two Root Causes. The very

- 1 substantive Root Cause that the Licensee submitted last
- 2 August, that addressed what is commonly referred to as a
- 3 barrier analysis. It was looking at barriers to failure in
- 4 all aspects of operation of the plant.
- 5 And in addition to that, there was an additional
- 6 analysis that was performed of the Quality Assurance
- 7 aspects of the plant operations. It was specifically
- 8 targeted in the QA Program and the implementation of that
- 9 program.
- 10 The inspection team found that both those analysis--
- 11 analyses were comprehensive and the identified corrective
- 12 actions to address the issues identified in the analysis
- 13 appeared to be adequate, if they're properly implemented.
- 14 In addition, the inspectors identified a number of
- 15 questions regarding the scope of the two remaining analyses
- 16 that the company was planning, particularly questions
- 17 regarding the impact of engineering on the problems that
- 18 were discovered last February, and the impact of corporate
- 19 support.
- 20 So, the Licensee has since that inspection completed
- 21 its analyses in the area of Plant Operations, as well as
- 22 the Safety Committee's function, and added to that analyses
- 23 in the area of engineering and corporate support. Those
- 24 four remaining analyses are now complete and we'll have
- 25 inspectors that will be coming back to the facility this

- 1 month to continue that inspection.
- 2 As Christine mentioned, this inspection is being
- 3 done in three phases. The first is ensuring that the root
- 4 causes are sufficient. The second is to make sure that the
- 5 corrective actions that the company has identified appear
- 6 appropriate to address those problems that FirstEnergy
- 7 identified. And third, looking at the implementation of
- 8 those corrective actions and their effectiveness prior to
- 9 restart.
- 10 So the, a portion of the first phase has been
- 11 completed, and we'll be continuing with the rest of phase
- 12 one of that inspection and moving into the second phase.
- 13 In addition on this slide, you'll see the second
- 14 bullet concerns the System Health Reviews. I believe, I
- 15 looked ahead in FirstEnergy's presentation and they're
- 16 planning on having Bob Schrauder address some of those
- 17 engineering areas in the System Health Reviews.
- We have ongoing inspections, particularly focusing
- 19 in the engineering areas, and the company has worked
- 20 continuously in that area, so our inspections are tracking
- 21 as they complete work activities, we send folks out to
- 22 inspect those activities.
- 23 In the Program Effectiveness area, we had two
- 24 programs that we need to complete our review of on the
- 25 short run, and those are the Boric Acid Corrosion

- 1 Management Program, and the Reactor Coolant System Leakage
- 2 Program. Then there is a number of other programs that our
- 3 inspectors are tracking Licensee progress, and we'll be out
- 4 to inspect when they're ready for inspection.
- 5 There are, as Christine mentioned, a couple of other
- 6 inspections that are scheduled in the near term. Those
- 7 include the Integrated Leak Rate Test and the Pressure Test
- 8 of the Reactor Coolant System.
- 9 We expect to see those occurring in the next several
- 10 weeks, as well as, hopefully, a specific targeted
- 11 inspection in the radiation protection area. As you may
- 12 recall at the last monthly meeting, we publicly discussed
- 13 the results of resent inspections in the area with
- 14 protection of workers on site as well as controlled
- 15 materials that, radioactive materials that could
- 16 potentially get off site. Identified a number of findings
- 17 in those areas. And shortly our inspectors, our radiation
- 18 safety inspectors will be back out to look at the
- 19 corrective actions the company has implemented in the
- 20 Radiation Protection Program.
- 21 I think that summarizes continuing inspections,
- 22 Christine.
- 23 MS. LIPA: Okay. Thank you.
- Then, if you could go back to slide 3.
- 25 This is just the agenda. And next on the item is

- 1 the fourth bullet, which is the Licensee's presentation,
- 2 and then following that, we'll take a break, and then we'll
- 3 have the public comments and questions period.
- 4 So, I'll turn it over to you, Lew.
- 5 MR. MYERS: Thank you.
- 6 We have four Desired Outcomes today. First, we
- 7 thought we would take some time and update the NRC and the
- 8 public on our efforts that we made toward restart in the
- 9 past month. Specifically, Randy Fast will provide you
- 10 some, a review of where we're at from a fuel load
- 11 standpoint right now.
- 12 And then, Jim Powers is going to talk to you about
- 13 the Integrated Containment Leak Test that's coming up,
- 14 probably before our next meeting. And that test was
- 15 designed, since we installed the reactor vessel head, we're
- 16 going to go back and pressurize the containment and prove
- 17 it's leak tight, designed pressure. So, Jim will talk to
- 18 you about that.
- 19 From a System Health standpoint, Safety Function
- 20 Validation Project is a project we took on after we did the
- 21 initial reviews of our systems. We always said, after we
- 22 did those, that we would increase our scope based on what
- 23 we found. So, we took on another set of systems that we
- 24 wanted to go look at. We call that program the Safety
- 25 Functional Validation Project. Bob Schrauder will talk

- 1 about that.
- 2 Then from a Restart Readiness standpoint and Safety
- 3 Culture, we had a meeting January the 30th, and spent six
- 4 hours there. I'm going to try to recap that meeting in
- 5 about six minutes. And then provide a review of what we've
- 6 done as a Restart Readiness Review at the plant for fuel
- 7 load.
- 8 So, we had Restart Readiness Review meetings, and
- 9 finally at the end of those meetings graded our own Safety
- 10 Culture, where we think we're at using our model. So, I
- 11 thought I would spend some time on that today.
- 12 Then, Quality Assurance, Steve Loehlein, we talked
- 13 about having him here the next time, this time, to discuss
- 14 what the Quality Assurance Oversight Group is seeing at our
- 15 station. They were brought up through Bill Pearce, our VP
- 16 of Quality Oversight, and provide us an independent
- 17 assessment.
- 18 Then, finally, Mike Stevens will spend some time to
- 19 talk to you about our schedule, where we're at. We thought
- 20 right now that we'd have fuel load, at the last meeting at
- 21 this time. We haven't got there yet. Just spend some time
- 22 on that, where we're going in the next few months, and few
- 23 weeks, okay.
- 24 That's it.
- With that, I'll turn it over to Randy.

1	Next slide.
2	MR. FAST: Thank you, Lew.
3	Good afternoon. Today, I would like to update us on
4	our Restart Readiness. I'll provide discussion and focus
5	in four key areas; those are fuel readiness, our plant
6	status, our processes and finally an update on observations
7	and the observation program.
8	Next slide.
9	First on the fuel. We worked with our fuel supplier
10	in identifying why we had indications on fuel assemblies,
11	damage on grid straps. I'll kind of show you right here is
12	what we call a grid strap.
13	That area provides support for the fuel rods
14	themselves. The fuel rods are the array that you see here,
15	the vertical rods. What we found in the movement of fuel
16	on some new assemblies in the spent fuel pool, we had
17	damage on, specifically on the corners of those grid
18	straps.
19	What we identified were three key areas; one of
20	which was the design and material selection. These are a
21	fairly soft metal, and prior to being irradiated, are
22	actually fairly malleable. And that design is one that the
23	industry is well aware of and there are actions being taken
24	by Framatone to improve that grid strap design.
25	Secondly, we looked at our equipment to see, was it

- 1 operating the way we would expect it to. And we did find
- 2 in the spent fuel pool the equipment had some alignment.
- 3 We require vertical indexing over each assembly; and as
- 4 well the indexing, that's the grid location were off a
- 5 little bit. So, we did take the action to go back and
- 6 reindex the spent fuel pool.
- 7 Lastly, we identified some of our handling
- 8 techniques. We weren't using industry experience as well
- 9 as we could, and we went back and evaluated that; got some
- 10 help from the industry, and best practices for moving
- 11 fuel. We believe that those corrective actions are
- 12 effective and they will ensure that we can reliably move
- 13 the fuel.
- 14 One of the things I want to point out is, these grid
- 15 straps are really a structural mechanism and it's not a
- 16 contributor to fuel failure. Although, we were concerned,
- 17 and we want to make certain that we're handling the fuel
- 18 properly, it did not result in the root cause analysis in
- 19 actual fuel failure.
- 20 This assembly right here is actually an assembly
- 21 that had grid strap damage and was sent back to the fuel
- 22 supplier and remanufactured. This is one of our reactor
- 23 engineers here performing an inspection of that assembly as
- 24 it was returned to the site.
- Additionally, as part of this outage, we've taken on

- 1 an opportunity to improve our main fuel handling
- 2 equipment. And we have put in a state of the art fuel
- 3 bridge modification, which includes improved controls and
- 4 it will improve our reliability.
- Now, part of this whole process of moving fuel takes
- 6 a dedicated team of individuals. And we've partnered with
- 7 our fuel supplier, Framatone, to move the fuel. And we
- 8 actually have four senior advisors that are working with
- 9 our Operations staff as part of that fuel movement. That
- 10 compares with normally you will have one at a station in
- 11 that senior advisory capacity. We have four. So, we can
- 12 ensure that we have round-the-clock coverage and we have
- 13 the best industry experience to help us in moving that
- 14 fuel.
- Lastly, we have completed all the training. So,
- 16 each position associated with the movement of fuel have
- 17 gone through an exhaustive training program and we've
- 18 recertified all of our folks to ensure we can have safe and
- 19 reliable transfer of fuel.
- 20 MS. LIPA: Randy, I have a
- 21 couple of questions for you about the fuel. First of all,
- 22 did you assess the design issue with the grid straps under
- 23 part 21; and then second, what was the root cause of the
- 24 fuel failures?
- 25 MR. FAST: Okay. Christine,

1	the first of	guestion	on the	part 21.	we have	not submitted

- 2 that as a part 21. And, again, what I'll do is take an
- 3 action to assess that, and see whether or not -- I believe
- 4 from a reportability standpoint it wouldn't be, but it
- 5 might be advisable to provide some, a report just to make
- 6 sure you're on board with what we found.
- 7 This particular root cause was not in the fuel
- 8 failures themselves. This was in the grid strap. So, we
- 9 have another root cause. And I would have to think back,
- 10 because that's really quite a few months ago that we had
- 11 completed that review, and actually had a space there --
- 12 excuse me, grid rod threading, which is high frequency
- 13 vibration of the fuel rod. And the threading is the actual
- 14 rubbing of the spacer grid components against the fuel rod
- and actually wears a hole in the fuel rod.
- And that's where the root cause was completed
- 17 earlier. It was not part of this root cause and
- 18 preparation. And all the corrective actions from that had
- 19 been completed as well. Some of those are corrective
- 20 actions where we provided some solid stainless steel rods
- 21 in place of the actual fuel pelleted rods in locations
- 22 where we saw that the grid-to-rod threading was more
- 23 pronounced and that is actually adjacent to LOCA holes
- 24 inside the core.
- 25 Those are areas where you have increased flow comes

- 1 in contact with the fuel rod, sets up a high frequency
- 2 vibration, allows the fretting to occur. So, we stabilize
- 3 that by providing some stainless steel rods in those
- 4 locations.
- 5 MS. LIPA: Okay. Thank
- 6 you.
- 7 MR. GROBE: Randy, before you
- 8 go on, I understand one of the activities you need to
- 9 complete prior to commencing fuel reload has to do with
- 10 reactor vessel cleanliness, and I heard that some of the
- 11 materials that were identified in the vessel were grid
- 12 strap materials. Could you go into a little bit on the
- 13 issue of reactor cleanliness and what you're doing about
- 14 that?
- 15 MR. FAST: Certainly. As
- 16 part of fuel load preparations, we do a thorough inspection
- 17 of the reactor vessel and the area underneath the vessel.
- 18 The fuel sits on a, what's called a core barrel. It's
- 19 really an assembly in the bottom of the core that provides
- 20 support for the 177 fuel assemblies.
- 21 During this period of time where the fuel has been
- 22 offloaded in the spent fuel pool, we want to do a complete
- 23 and thorough inspection of the reactor internals and of the
- 24 core barrel and the lower portion of the vessel to ensure
- 25 there was no foreign material or any debris.

1	What we found through that was a number of
2	indistinguishable piece parts, I'll call it; some of which

- 3 are most probably pieces of grid strap. We did, I think
- 4 today, identified a ball bearing. Don't know exactly, it
- 5 may have come from one of the tools that is used for fuel,
- 6 but that's something we're going to have to evaluate.
- 7 As well, saw some foreign material, light debris,
- 8 some of which was probably some paint, paint chips and the
- 9 like. And we've gone through and vacuumed that. We
- 10 redistributed it. We do a video. That's kind of, I'll use
- 11 the word, Lew likes this, a cursive process. We actually
- 12 go in, we clean, we go back inspect. We have to meet Class
- 13 B Cleanliness Requirements for the Reactor Coolant System
- 14 for stainless steel systems.
- So, we'll continue to clean the vessel until we meet
- 16 the Class B Requirements.
- 17 MR. GROBE: Okay, thank you.
- 18 MR. MENDIOLA: Randy, if I could
- 19 ask a question. You mentioned there was an alignment
- 20 problem in your spent fuel pool. Could you tell us a
- 21 little more about that?
- 22 MR. FAST: Tony, what you
- 23 have is a series of what I'll call X Y axes for each fuel
- 24 location. And we had gone through in 2001, and then into
- 25 2002, a rerack project. What that is effectively, is we

- 1 needed to provide more storage location in our spent fuel
- 2 pool for expended fuel.
- 3 As part of that rerack project, we had some of the
- 4 locations off by as much as about a half an inch. When you
- 5 look at the very close tolerances of the storage locations
- 6 and the fuel and the mast, we found that we had an
- 7 opportunity to set up, an opportunity to have grid strap
- 8 the corners that come in contact with those storage
- 9 locations.
- 10 So, we went through and reindexed the pool. And I
- 11 know now we're within about an eighth of an inch, .125
- 12 inches, that's well within the design requirements for fuel
- 13 identification.
- 14 Additionally, we had some compensatory measures
- where we used a camera to verify that we're on index.
- 16 There was one other issue that is called out in the report,
- 17 and that was the potential that the fuel mast itself was
- 18 out of vertical. What we found is that it was in vertical;
- 19 however, there are some spacer, spacer plates in there that
- 20 provide very, very close tolerances. What we've asked
- 21 Framatone to do is review that design and see whether we
- 22 can open some of those tolerances that will provide a
- 23 little more flexibility in handling fuel in the spent fuel
- 24 pool.
- 25 MR. MENDIOLA: Okay. Basically,

1 it had to do with the position of the rack within the pool;

- 2 meaning, if you will, in an appropriately indexed
- 3 position.
- 4 MR. FAST: Yes, sir.
- 5 MR. MENDIOLA: Not the fuel in
- 6 each of the locations, but the rack itself.
- 7 MR. FAST: Yes, and actually
- 8 I asked that question. The fuel in the assembly could be
- 9 at any one of the, it may be pushed over to any one of the
- 10 north, south, east, west walls, and you should still be on
- 11 index it at that point. That's where some of those
- 12 tolerances, those stackup tolerances come from. That's
- 13 well within the design, but the index in itself was off by
- 14 as much as a half an inch.
- 15 MR. MENDIOLA: Thank you.
- 16 MR. FAST: Next slide,
- 17 please.
- We talked last time about reactor coolant pumps.
- 19 Just to refresh, we did complete refurbishment on the 1-1
- 20 and 1-2 reactor coolant pump and reactor coolant pump
- 21 motor. This is one of the reactor coolant pump motors
- 22 that's being lowered down into the D ring inside of
- 23 containment.
- A question came up about, we did two out of the four
- 25 reactor coolant pumps. You would say, why did you do two

- 1 and not do the other two. This was what I'll call elective
- 2 maintenance. We were well within the normal preventative
- 3 maintenance periodicity. However, we took this as an
- 4 opportunity to open up and do inspections on the pump and
- 5 motor.
- 6 And part of the issue here was, as well, going back
- 7 to the extended condition, boric acid. We had some legacy
- 8 issues in boric acid leaking from the flanges for the
- 9 reactor coolant pumps themselves. That was an industry
- 10 understood situation.
- 11 Framatone had come up or Byron Jackson, the supplier
- 12 of the pump, has a new generation seal that provides better
- 13 sealing and leak prevention; and it's much like a reactor
- 14 vessel, it's a dual O-ring seal design. We went with new
- 15 generation on these two.
- The other two are well within their periodicity.
- 17 The other two pumps that we did not go after, and motors,
- 18 are well within their design for preventative maintenance.
- 19 We didn't see any extended condition items from the
- 20 analyses of these two pumps and motors that would drive us
- 21 to go after the other two.
- We will continue to monitor those and we'll
- 23 implement corrective actions in accordance with our
- 24 Preventative Maintenance Program.
- 25 Next slide, please.

This is about the best picture I can provide to-date

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22

2	on the upper portion of the containment emergency sump.
3	And as we talked last meeting, I had one of the top hats
4	here, which is the cylindrical filter assemblage that
5	allows the 3/16 inch holes that are drilled, water during a
6	design basis accident floods the containment and comes up.
7	And these, I'm going to use a term here that we kind
8	of affectionately call, trash racks. This is a large
9	filter on the outside. You'll see some of the top portions
10	of those racks, which fit around the top of this. That
11	provides a first barrier for the straining of any foreign
12	material.
13	And then, inside this upper portion, about 400
14	square feet, about 15 square feet each of 27 top
15	hats, provide that top level of the strainer.
16	This is now functional, the upper section. And we,
17	after fuel load and recovery of the reactor coolant system
18	fuel and vent we'll complete the lower portion of the
19	containment emergency sump.
20	It's a pretty good picture of the area. It's at the

questions on that. In the Licensee event report that you
 submitted to us, especially Revision One dealing with the
 sump, you talked about part of the reason for the new sump

565 elevation of containment against the south wall.

MR. HOPKINS:

I have a couple

- 1 is the old sump had a gap that was too large, and that
- 2 could potentially affect containment spray systems.
- 3 You also stated that besides that potential affect
- 4 on containment spray systems from the too large gap which
- 5 you had to fix one way or another, and your fix is with the
- 6 new sump; that the new sump would also provide you extra
- 7 margin with regards to amount of debris that might get on
- 8 the screens.
- 9 Have you made any finding with regard to the amount
- 10 of debris on the old screens, would have been too much?
- 11 MR. POWERS: Let me answer that
- one, Jon. On the old screens, they're about 50 square feet
- 13 of screen material on the old sump. And, we have been
- 14 preparing what we call a transport analysis that takes an
- 15 assessment of the debris that can be generated during an
- 16 accident in containment.
- 17 (Microphone problem)
- 18 Thank you, Mike. Let me start again.
- 19 The old sump had about 50 square feet of screen,
- 20 screenage on it to allow water flow-through, and the new
- 21 sump has about 12, 13 hundred square feet. So, we've
- 22 improved that substantially.
- Now, what we have done since we've been comparing
- 24 this new design is doing a transport analysis, looking at
- 25 debris sources within containment, and we're following some

- 1 of the latest industry guidance on that. The industry has
- 2 learned quite a bit over the years from the original
- 3 licensing and design basis of the containment emergency
- 4 sumps up until today.
- 5 Originally, the sumps were designed back in the late
- 6 60's and through the mid 70's, to consider a 50 percent
- 7 blockage. And that was relatively nonmechanistic, if you
- 8 will. Assume it's 50 percent plugged and determine there's
- 9 adequate MPSH to the pumps with that blockage.
- 10 As we gone on with time and incidents have occurred
- 11 relative to sumps, we've assessed more accurately what
- 12 kinds of debris can cause problems with the sump, how would
- 13 debris get down to the sump. And the industry, as well as
- 14 your organization, has done studies on that, modeling what
- 15 we call transport debris generation and transport down to
- 16 the sumps.
- 17 And we completed that ourselves. We determined that
- 18 given what we refer to as a design basis condition, we get
- 19 a large break of a reactor coolant pipe, a lot of steam,
- 20 and pressure released; there can be, there can be a
- 21 substantial amount of debris that is transported down to
- 22 the sump area.
- 23 Of course, there is smaller type breaks, you would
- 24 have a condition where not as much debris would get down
- 25 there, and the sump generally is, is more functional when

- 1 you have smaller types of breaks.
- 2 So, what we said in our Licensee Event Report that
- 3 you were referencing is related to design basis accidents,
- 4 how much debris can get down there. What we determined is
- 5 with our new sump, and new screenage, that we would have
- 6 margin available, even under that condition, extreme
- 7 conditions to our pumps.
- 8 MR. HOPKINS: All right. I'll
- 9 just mention that the NRC is going to issue a draft generic
- 10 letter on this issue, I think within the month. So, you
- 11 want to read that, see what it says.
- 12 MR. POWERS: Okay, thanks.
- 13 We'll be watching for that.
- 14 MR. GROBE: Jim, could you go
- 15 into a little more detail on the transport analysis? Are
- 16 you analyzing the as-found conditions in February of 2002?
- 17 MR. POWERS: No, what we really
- 18 looked at, Jack, was design basis conditions; worst case,
- 19 large break, LOCA accident conditions. And we're looking
- 20 at it from the perspective of what was found to give a
- 21 safety significant assessment. And, we've begun preparing
- 22 that now.
- 23 Because, what was found in February with the
- 24 degradation on the head would constitute a relatively
- 25 smaller type of break in the reactor coolant pressure

- 1 boundary, and relatively contained within the service
- 2 structure on top of the head. So, we wouldn't expect from
- 3 that type of as-found condition to have a lot of debris
- 4 generated that would transport down to the sump. It's a
- 5 very tortuous path to get down to the sump from that
- 6 location.
- 7 So, what we've been analyzing for a design basis and
- 8 reporting in our LER, is large break design basis. We will
- 9 provide however a safety significant assessment on what was
- 10 found in February.
- 11 MR. GROBE: What are the
- 12 major contributors to the debris that you're talking about?
- 13 MR. POWERS: Major contributors
- 14 are insulation, and it can be either metallic, reflective
- 15 metallic insulation or fibrous insulation that's wrapped
- 16 around pipes and components; coatings, if they're not fully
- 17 qualified, the temperature, pressure and radiation within
- 18 containment that can exist after an accident.
- 19 Also, when you consider a large break, design basis
- 20 break, we're talking about very violent discharge of jet,
- 21 of reactor coolant, that can strip concrete and paint and
- 22 insulation off adjacent structures; and that's what
- 23 constitutes the debris. That's what the industry guidance
- 24 in recent years has defined what the, what's the
- 25 constituents of the debris. So, that's the type of thing

1	that we look for.
2	MR. GROBE: So, the design
3	basis worse case design break is what you're analyzing.
4	Are you looking at the as-found coatings with that
5	analysis?
6	MR. POWERS: We, yes. And, as
7	we've described over the, some of the last meetings, we've
8	been looking very carefully at our coatings within
9	containment; and as we go through some of the progressive
10	slides here in Randy's presentation, you'll see the
11	recoating project we're doing on the top of the containment
12	dome. Where you can stand up on the refueling floor and
13	look upwards. It's quite a height up there that we're up
14	working with painters, stripping and recoating to assure we
15	maintain a qualified coating system up there.
16	We've also recoated our core flood tanks. We're
17	working on recoating service water piping. We found on a
18	very thorough containment walkdown and assessment of
19	coatings, that our conduit that some of our cable and
20	wiring runs through has a coating system on it that's not

fully qualified for the post-accident conditions.

And we're using our transport analysis to make a

So, we're very carefully looking at that to see to

what extent that coating needs to be removed and replaced.

determination to what extent that needs to be removed and

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22

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1	what extent it can be allowed to stay, and very clearly
2	defining in our inventory of unqualified coatings in
3	containment, you know, what the as-left condition will be.
4	MR. GROBE: In the analysis
5	that you performed, how significant a role did the
6	unqualified coatings play?
7	MR. POWERS: The unqualified
8	coatings is pretty significant overall. If you look at the
9	square feet of coating within the large containment
10	structure, there is quite a bit of coatings. So, to us,
11	that was a significant part of the, the walkdown of
12	containment under Containment Health, looking for coating
13	qualification information, inspecting the condition of the
14	coatings, and looking for repairs on the coatings, because
15	there is a large amount of coatings; a significant
16	contributor to potential debris for the sump.
17	MR. GROBE: Okay. If you
18	could just summarize for me in a few words the conclusions
19	of your analyses to-date with respect to whether or not the
20	sump would have functioned given a design basis accident?
21	MR. POWERS: Given a design
22	basis accident, there is a, there is a concern with the
23	amount of debris that can be generated under design basis
24	conditions, because of what I described as a very large

break, a large amount of debris being transported. And, we

- 1 think the original sump, which was designed in accordance
- 2 with the design regulation and criteria at that time, could
- 3 have been blocked to a large extent by debris.
- 4 When I look though at the conditions that were found
- 5 in February, with the head degradation, it's really, it's
- 6 not in the same regime, I guess you would say, as a design
- 7 basis large break. It's a smaller potential, potential for
- 8 a smaller break there. So, we think under that case, the
- 9 sump likely would remain functional.
- 10 But, the reason we reported our conditions under the
- 11 LER, was for design basis condition, we did not feel that,
- 12 that the original sump would have been satisfactory.
- 13 MR. GROBE: Thank you.
- 14 MR. FAST: Next slide,
- 15 please.
- 16 I wanted to point out, what we have here, what we
- 17 call the decay heat pit. We've actually renamed this.
- 18 This is a decay heat tank. This is legacy issue that two
- 19 decay heat valves that are in a vault in containment which
- 20 are required to operate post accident any time from
- 21 immediately following the accident up to about a week after
- 22 the accident. And, those valves have been sealed
- 23 traditionally with sealing RTV material.
- We wanted to take a proactive approach at resolving
- 25 that legacy issue by providing in this case the stainless

- 1 steel vault or tank. And this photograph is probably
- 2 difficult for you to see, but what you see is a curved
- 3 section right here, which actually is installed to allow
- 4 for thermal expansion of that tank.
- 5 So, this design will ensure that integrity is
- 6 maintained for these two important valves in containment.
- 7 It will be completely sealed prior to our going to Mode 4,
- 8 and that work is proceeding well, but I thought of interest
- 9 would be this design feature that includes for thermal
- 10 expansion within that tank.
- 11 Next, please.
- Here we have the containment air coolers. We've
- 13 talked about that quite a bit. There are three in a row.
- 14 Again, it may be difficult for you to see, but there is the
- 15 third one back here; the one most pronounced in the middle
- here; and then there is one in the foreground.
- 17 What I wanted to be able to point out is we're
- 18 making excellent progress in returning these. These are
- 19 completely refurbished. New cooling coils; as well, all
- 20 the structural steel has been blasted and recoated. What
- 21 you see right here is a foreign material exclusion cover on
- 22 a service waterline. This is the line, the blue line
- 23 that's coming in. You have an inlet pipe and an outlet
- 24 pipe. Those distribute water into and then out of these
- 25 heat exchangers.

1	What we have is a brand new design that again allows
2	for thermal expansion under design basis accident
3	conditions. It's actually conduit and stainless steel
4	bellows assembly, and that will allow for some thermal
5	growth. So, these are not installed yet. That's one of
6	the last things that we have yet to do. And those are in
7	fabrication.
8	So, that supply and return header will be attached
9	to, in this case, the, there are three heat exchangers
10	here, and three heat exchangers here. On the opposite
11	corner you have as well the other, so there is a total of
12	twelve heat exchangers, you have the other inlets and
13	outlets. So, you can see that these have been completely
14	refurbished.
15	The fan motors inside are all new and completely
16	refurbished. We have brand new what's called dropdown
17	dampers. The air flow comes from the area here in the
18	general vicinity is pulled through the heat exchanger,
19	comes down through a fan, and is exhausted through a
20	plenum, which is our next picture. But under design basis
21	accident, there is a drop down register. I'll point it out
22	in the next photograph, but those actually open up to short
23	cycle the redistribution of air within containment.
24	Here is, what's really like a boxcar or

tractor/trailer. It's about 40 feet wide, and this is just

- 1 about completed. The drop down damper, difficult to see,
- 2 but it's a damper that's right in this area here. And that
- 3 damper would close, and there is an upper portion that
- 4 opens. It's got fusible lengths that under heated
- 5 conditions allows the damper to open and short cycle the
- 6 air under design basis accident.
- 7 On the far side, on either end of this plenum, this
- 8 is a common plenum for all three containment air coolers,
- 9 you have some turning veins. It's a 90 degree turning vein
- 10 comes exhausted out, has two separate sections of 90 degree
- 11 turning vein; and then brings the air under normal
- 12 recirculation back into the D ring.
- So, that's a stainless steel, half inch stainless
- 14 steel plate floor; stainless steel walls that have been
- 15 bolted together; and we're working on the overhead in
- 16 connecting everything together. So, making very good
- 17 progress on our containment air coolers that will greatly
- 18 improve environmental conditions and ensure reliability for
- 19 basis design accident.
- 20 Next slide.
- 21 MR. GROBE: Randy, before you
- 22 go on, could you or Jim or Bob, discuss a little bit of
- 23 your analysis of the as-found condition of the containment
- 24 air coolers and the, as far as whether or not they would
- 25 have functioned as designed?

1	MR. POWERS: Yeah, we've been
2	analyzing the containment air coolers. And, for those of
3	you who haven't attended previous meetings, a description
4	of those air coolers Randy described the air being drawn
5	through them. Well, the air in the containment had boron
6	mist in it, and those cooling coils were fouled somewhat
7	with that boron precipitating out.
8	So, we needed to do an assessment on how that would
9	affect our heat transfer capability. And we've also
10	disassembled the cooling coils as we completely rebuilt
11	them, and inspected them as part of that process; and found
12	when we opened them up, there was some, inside some
13	deposits from the water system that had built up over
14	time. So, we took into consideration all of those factors
15	in the performance of the containment air coolers.
16	Now, we did a thermal performance calculation, and
17	from the design basis, licensing basis conditions of the
18	plant, the containment air coolers work in conjunction with
19	containment spray system to control the containment
20	pressure and temperature conditions in a post accident
21	environment. And, what we found is that working in
22	conjunction with containment spray, the containment air
23	coolers would be operable and perform their function to
24	control containment conditions.
25	What we're going through now in the details is

1	assessing the	functionality	of the	sump,	which I	just

- 2 described; and on an integrated basis, if we had a, an
- 3 accident in the containment, the function of containment
- 4 spray, which takes suction on the sump, and the containment
- 5 air coolers; and what the likelihood is, that the, you
- 6 know, the performance and functionality of the sump would
- 7 be affected.
- 8 And so what we're doing, what I refer to safety
- 9 significance assessment, that's taking into consideration
- 10 the total picture. Debris being generated during an
- 11 accident. What's the likelihood that it would get down to
- 12 the sump and block it, you know, from a design basis
- 13 perspective. We consider by design rules that it might,
- 14 practicality of it getting down there; functionality is
- 15 probable.
- And so, looking at containment spray, and the
- 17 performance of the containment air coolers on an integrated
- 18 basis is what we're working through now, Jack. I know
- 19 there is still work to be done to answer your question
- 20 completely, but our intention is to provide a report of
- 21 that assessment to you for review.
- 22 MR. GROBE: Do you have an
- 23 idea what the schedule will be for completing that?
- 24 MR. POWERS: We've just
- 25 completed the assessment of the containment air coolers, so

- 1 now we're beginning the process of doing an integrated look
- 2 at the plant response. And I would expect it's going to be
- 3 in the range of two to four weeks to put that together.
- 4 MR. GROBE: And again, each
- 5 of these analysis is looking at -- analyses are looking at
- 6 a design basis worst case accident; is that right?
- 7 MR. POWERS: Well, in the case
- 8 of the -- that's right. Containment air coolers, the
- 9 answer is yes. We're also looking at it from the
- 10 perspective of what is the more likely condition, both from
- 11 a design basis condition, and then from a safety
- 12 significance perspective.
- 13 MR. MYERS: I think there is
- 14 a couple of interesting points. You know, one of the
- 15 things is we went back, if you look at this thing as a
- 16 whole. We think we'll be able to demonstrate
- 17 functionality. For the first 30 minutes or so of an event,
- 18 you really don't need the containment sump, because we're
- 19 ejecting water from the boric acid tank, you know.
- 20 And then, the other thing that I think you mentioned
- 21 is important, the technology has changed over the years.
- 22 And we've talked about that in here a lot, in the analysis,
- 23 like transport analysis. When we originally designed the
- 24 plant, the design basis of the plant that was approved by
- 25 the NRC and us, you know, that we assumed, we just

- 1 automatically assumed 50 percent of it got plugged up.
- 2 We met that design basis. We always have. Coming
- 3 out where it is now, with some of the new models, we can
- 4 theorize things that we haven't in the past, you know. We
- 5 can keep theorizing, you know. But some of these theories,
- 6 on the paint being blown off and things like that; we'll
- 7 probably see something like that.
- 8 But we met the design basis of the plant initially.
- 9 And functionality of the plant, we believe, right now we
- 10 believe would still be intact based on that design basis.
- 11 And, and then we're going back to this transport analysis,
- 12 and looking at some other assumptions. Those assumptions
- 13 weren't in the original design.
- 14 MR. GROBE: Okay, thanks
- 15 Lew.
- 16 You brought a question up and I think you answered
- 17 it already, Jim, but let me make sure I clearly
- 18 understand. You're doing both a design basis analysis, but
- 19 also probabilistic analysis; is that correct?
- 20 MR. POWERS: That's right,
- 21 Jack. The design basis analysis would be reported in a
- 22 Licensee event report related to the containment air cooler
- 23 conditions, and capabilities. And then the safety
- 24 significance assessment will be a separate assessment based
- 25 on as-found conditions and significance.

1	MR. GROBE: Okay.
2	MR. FAST: Okay. Moving
3	along. What we see here is the containment dome. Just to
4	get a vantage point of where we are, we're at the 603
5	elevation looking straight up into the containment dome.
6	And this is the polar crane, which has provided very good
7	reliability after we have gone through our modification
8	there. That rests on an outside ring, support ring here.
9	And I'll point out a couple of things. One is the
0	spray headers. So, you see a circular header here. That's
1	in the uppermost portion of the containment dome. And then
2	a lower containment spray header, the circle that I'm
3	identifying here.
4	What we've done, we've completed, as you can see, a
5	significant amount of the containment dome in the
6	refurbishment. You see the gray areas here where we
7	actually removed the paint.
8	That's a pretty arduous process. Used what's called
9	a rotopine; we also use needle guns. This is an air
20	operated and vacuum drag the debris back into the
21	containment system. And, that's where the paint's been
22	removed. You can see then the line where the old paint
23	here's the new paint, the white fresh paint. You can see
24	the gray where the paint has been removed. And then on the
25	outer ring, the paint that has yet to be removed here.

1	So, you can see the actual rigs, the spider rigs
2	that the paint crews are working out of. You can see how
3	they will actually rotate around to remove that paint, and
4	then another crew will come back and reapply coatings to
5	that surface area.
6	So, that's quite an effort, and continues to go
7	pretty well. The surface area associated with that dome is
8	about an acre, and all of that paint is hand removed. And
9	so, you want to get an update of where we are, we're making
10	good progress. We expect from a coating standpoint kind
11	of back to this sump. This paint needs to be recovered in
12	this area. Anyways, we do not have to remove the rest of
13	the paint on the walls.
14	Now you see here below that support. That's a
15	different style of paint. That's both a carboline, but a
16	different type of paint and that paint is good. It meets
17	design requirements.
18	MR. GROBE: Randy, there
19	could be folks in the audience that, for those of us that
20	stood there that actually makes sense; could you give
21	dimensions?
22	MR. FAST: The building
23	itself is about 2.8 million cubic feet and overall almost
24	300 feet tall. So, from the 603 elevation, which is the

operating deck of containment, as we've talked about some

- 1 of these other areas; the sump, the top portion of the sump
- 2 is at 565 feet. That's also where the plenum is. I showed
- 3 the pictures of the containment air coolers. So, that's
- 4 the lowest elevation of containment, 565 foot elevation.
- 5 The next is 585 feet. That's where the containment
- 6 air coolers with the actual heat exchangers are located.
- 7 The operating deck is at 603. The top of the D rings is
- 8 653 feet. That's 50 feet above that. It's about another
- 9 30 or so feet until you get to the support ring for the
- 10 polar crane. And then it's about another 50 or 60 feet to
- 11 get to the crown of the dome. So, overall, 300 feet from
- 12 top to bottom.
- 13 MR. GROBE: So, from where
- 14 that photograph is taken to the top of the dome, it sounds
- 15 like it's about 130 feet up?
- 16 MR. FAST: Yes, sir. That's
- 17 approximate. I would have to figure out the math. Don't
- 18 hold me to the 130. It's pretty close though.
- 19 MR. POWERS: It's pretty
- 20 special people that go up there and do that painting, I can
- 21 tell you that. Randy, did you go up and experience that?
- 22 MR. FAST: It's kind of an
- 23 interesting story. I really wanted to understand what was
- 24 going on in the containment dome. A lot of hype and I
- 25 wanted to see it up close and personal. We have a

- 1 qualification process that qualifies, just like a window
- 2 washer on a building. These rigs have some specialized
- 3 safety features for running the rigs up and down. I went
- 4 through that training program; was qualified as a rig
- 5 operator. Went up to the dome, and I actually removed
- 6 paint for about an hour up in the top of the dome. It was
- 7 quite exciting. I'll tell you.
- 8 MR. MYERS: Plus, it's an
- 9 area we spend a lot of hours of inspection time, from that
- 10 standpoint.
- 11 MR. FAST: So, really, my
- 12 hat's off to the paint crew. It sounds kind of like, well,
- 13 paint is not a big deal. I can tell you, these are
- 14 engineered coatings. This is a very dedicated crew that
- 15 are working this at heights.
- And in fact, just an item, from an interest
- 17 standpoint, you can say, well is that safe. Actually
- 18 brought in a specialist in the industry, a Professional
- 19 Registered Engineering to look at the design of these rigs
- and the application, and we got a good bill of health.
- 21 And, we continue to work safely in this area.
- 22 MR. MYERS: But to go into
- 23 the containment, to go up there; what's it take, like 30
- 24 minutes?
- 25 MR. FAST: It takes about 30

1	minutes, by the time you brief, you get in the basket. I
2	went up with three other people. By the time you get up
3	there, you have a series, actually had three tie-off
4	lanyards to ensure that you're safe. You're tied off by
5	double point at any one time. Then, you transition one

- 6 lanyard to your next position, and go through a series to
- 7 go from the basket to -- then we had, while we were doing
- 8 that uppermost portion, we had two 35-foot sections that
- 9 were in the very top and they were suspended by a central
- 10 pivot point at the very top of the containment dome.
- 11 Interesting project and really quite a tribute to
- 12 the folks that are doing this work.
- 13 MR. FAST: Next slide,
- 14 please.
- Next area I wanted to talk to you about is some of
- 16 the processes we went through. Certainly, we looked at the
- 17 plant and the plant's readiness to move fuel. But, one of
- 18 the things that is very difficult to assess, but we
- 19 actually use a business practice, this is much like a
- 20 procedure, was developed at our other stations.
- 21 We went through and refined it specifically for our
- 22 recovery here at Davis-Besse; and that involves a collegial
- 23 review by about 40 key organizational folks, including
- 24 supervisors, superintendents, managers, directors, and our
- 25 more senior people. Lew was personally involved with

- 1 this. We brought over our Vice President from the Beaver
- 2 Valley Station, and as well our Executive Vice President of
- 3 Engineering attended the majority of these discussions.
- 4 This went through a very detailed review of our
- 5 readiness. And we got started probably a little early, but
- 6 we invested between 50 and 60 hours of discussion in going
- 7 through this very detailed review.
- 8 It included the seven Building Blocks, and then as
- 9 well, we went through each organization and looked at
- 10 things like, do we have the proper staffing; are our folks
- 11 qualified; have we completed corrective actions associated
- 12 with problems in their areas; do we understand what their
- 13 back logs and procedures were.
- So, that review was a very intrusive review. And it
- 15 added a significant amount of value, I would say, in our
- 16 ability to assess our readiness to move forward.
- 17 One of the specific actions that came from this were
- 18 the Refuel Director roles and responsibility here. The
- 19 Refuel Director is a Senior Reactor Operator licensed
- 20 individual that is overseeing the actual movement of the
- 21 fuel to ensure that it's reliable and done safely.
- What we found out, as we queried. This is really a
- 23 tribute to having some new folks, use to maybe doing things
- 24 a little differently. Being intrusive, asking questions
- 25 about how do we do that. What we found out is the Senior

- 1 Reactor Operator was a little bit different than what we
- 2 would say the traditional role of the Refuel Director was.
- 3 We had what was called a tag board which keeps track
- 4 of the fuel itself, involved with some of the
- 5 administrative processes. They did not meet our
- 6 expectations. We subsequently changed that role and
- 7 responsibility to provide direct oversight, no
- 8 administrative duties, to ensure that we can safely move
- 9 fuel. That was a direct output from this Readiness
- 10 Review.
- 11 Another one, we put in place the Management
- 12 Oversight. When I talk about Management Oversight,
- 13 certainly myself and other senior managers have been
- 14 involved in looking at our readiness and the support. I've
- 15 made tours. I know Lew and myself and others made tours of
- 16 containment most recently within the last few days in
- 17 seeing how ready we are.
- But we did put in place, a seven-day-a-week,
- 19 24-hour-a-day Oversight Management Team, which includes
- 20 folks that were previously licensed and have refueling
- 21 experience. And, they're sitting there with the sole
- 22 purpose of overseeing the process of moving fuel.
- 23 Lastly, I want to talk about and we've had a lot of
- 24 discussions about our Observation Program. And we've
- 25 already gotten some good feedback on the observations that

- 1 have been conducted as part of our fuel readiness. One I
- 2 would mention is foreign material exclusion. We put in
- 3 place a housekeeping zone in the containment for the
- 4 movement of fuel, and we have a single point of access to
- 5 those areas to establish housekeeping boundaries.
- We saw that we had some opportunities for
- 7 improvement there. Those were documented on a Condition
- 8 Report as well as an observation, so we have corrective
- 9 actions to ensure that the role and responsibility of that
- 10 foreign material exclusion monitor is, will meet our
- 11 expectations.
- 12 Just a recap, and not to bore you with a lot of
- 13 facts, but we did our totalization of management
- 14 observation for the month of January. We did a total of
- 15 468; 364 included fuel observations, 46 a training. I
- 16 think it's important, because training continues. We still
- 17 have a lot of training that's going on, particularly in the
- 18 operations area. And, then 58 that were specific to
- 19 operations processes. 21 Condition Reports were generated
- 20 based on those observations.
- We had 90 percent schedule adherence, I'll call it.
- 22 You know, Lew has talked to us about, it's not just a
- 23 matter of just run out there when the time is right, we
- 24 want to preschedule those important evolutions and make
- 25 sure the people are scheduled to monitor it.

1	I was scheduled this last week to look at personal
2	protective equipment. Part of the reason I was scheduled
3	to do that is that was one of the shortfalls we saw as we
4	pulled together the information from the January
5	observations. We saw that there were opportunities in
6	areas for room for improvement.
7	I made an observation. I actually took some
8	specific action to get some additional safety equipment
9	that was identified from my observation about personal
10	protective equipment.
11	We feel like we've made some pretty good progress.
12	We benchmarked and compared ourselves against our other
13	FirstEnergy Nuclear Operating Company Stations and we are
14	doing more observations. And, although, sometimes our
15	staff say, we don't see our managers enough; we have
16	assembled a pretty impressive amount of observations.
17	About 72 percent of the field observations focused
18	on some element of safety, whether it be radiological,
19	nuclear or industrial safety; and 28 percent of those field
20	observations focused on improvements and standards and
21	being able to coach our folks to new standards of
22	excellence.
23	As part of the observation program, we have specific
24	attributes that we look at. We had a total of 656 checks
25	on procedures. That's verifications of procedures that are

- 1 in use, that they're being followed, that they're being
- 2 place marked; and so we have 650 total checks on
- 3 procedures. No alarming or no trends that we saw that
- 4 would require us to take any immediate action in that
- 5 area.
- 6 I thought it was interesting, got a couple of facts
- 7 here. The least observed focused area were observations,
- 8 field observations of office safety. I think that's, that
- 9 tells you that we're going where the action is. We're
- 10 going out to the plant and seeing the activities that are
- 11 actually ongoing. I think that's good, because sometimes
- 12 in an observation program, we'll allow observations of
- 13 something like office safety. While certainly that's
- 14 important, it's not our focus area. And, when you do the
- 15 rack up of information, it substantiated that.
- So, that's really all I had to identify. Well, we
- 17 did have some strengths, I just identified. We saw some
- 18 good teamwork. That's good. As we're building this team,
- 19 we want to be able to look at teamwork; we want to look at
- 20 communications, some of our human performance tools, like a
- 21 questioning attitude and peer checks were identified as
- 22 commonly seen strengths as part of observation.
- But as I mentioned, areas that we need to focus on,
- 24 personal protective equipment; that's why I was personally
- 25 scheduled and other managers last week to do those; tool

- 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.
- 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	contraints 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

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

1	nlant design hases	and, a lot of those potent	fial issues
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- 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.
- 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

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

24 to look at.

- 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.
0	Then, of course, all the nonconformances that were
1	identified during the course of that project were also
2	entered into the Corrective Action Program, and they would
3	then go back over to Path A and come down through the
4	Corrective Action Program.
5	MR. GROBE: Bob, let me
6	make sure I understand that. Oftentimes in engineering
7	reviews, you come up with a lot of questions. And, it's a
8	period of time until those questions are revolved to the
9	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 an	
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	

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	

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Distribution Systems, that includes 125 Volt/250 Volt DC

System, the 4160 Volt AC System and 480 Volt AC System.

One of the good things, I would say, that came out

of it or one of the encouraging things, is we looked at the

electrical distribution systems, we were not able to fully

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.
- 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;	

determined that it might be appropriate now to start weekly

calls with your Regulatory Affairs Group to track the

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ı	resolution of these questions. Tanticipate 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

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
- 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,
- 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.
- 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.

This review identified that the calculational basis

identified that if you're injecting an LPI pump, were

24

- 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
- this. When I say I don't have a clear path to solution on
- 24 this, we're either going to have to demonstrate
- 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.
- 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.

Okay, thank you.

1 MR. PASSEHL:

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.

ı	men, 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

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.
- 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
- 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,

it was supposed to be seismic. And it was not seismic. It

-	,
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

was not installed seismically.

- 6 earthquake effects, but we are also going back and making
- 7 that seismic now.
- 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.
- 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.
- 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
- 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
- took over the Beaver Valley Station. So, if you look at
- 16 our Davis-Besse station, all our performance indicators
- 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.

ı	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

individuals", so, what they see from, "which establishes an

overriding priority towards nuclear safety activities and

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

maintenance or operator training; it's leadership training,

it's management training, and supervisor skills training

24

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
0	work control. That's more than just going out working a
1	work package. Are the engineering documents that we
2	prepare quality documents? And one that I know is close to
3	our heart right now are the RWP's that we prepared,
4	radiologic standpoint, thorough and accurate. So, it's
5	across the board from a work control standpoint.
6	Questioning attitudes and overall drive for
7	excellence, and maintain our plant, and improving safety
8	margins from cycle to cycle, both from a personnel
9	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.

First from a policy standpoint, we started taking

many of our actions back in the May time frame in 2002,

24

- 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.
- 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.
- 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.
- 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.
- 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.
- 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
- that were sent out in the past, we wouldn't be here today.
- 15 So, we think we're seeing good improvement there.
- 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.
- 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.
- 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
- 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.

Right.

MR. MYERS:

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

- 1 at the way we graded ourselves for fuel load, and it sort
- 2 of makes sense; from a policy level of commitment that area
- 3 is graded white. From a management area commitment the
- 4 grade is white. And then, from an individual commitment,
- 5 we graded it yellow.
- 6 Now, what's interesting there is, this is a
- 7 management model once again. It's used to help us monitor
- 8 our standards, their implementation, and allow us to take
- 9 corrective action to assure that we are in line with our
- 10 employees.
- 11 It's not to say that our employees are yellow.
- 12 Okay? So, but we think there is areas that we need to go
- 13 focus on.
- 14 Let me go down to the policy level area. In that
- 15 area, we graded the management value structures as yellow.
- 16 Why did we do that? Well, when we go around and ask our
- 17 employees and survey about our, we don't get a consistent
- 18 reply from our employees when we talk about mission,
- 19 vision, our values; we don't quite feel like they're
- 20 clearly understood, even though we got them out there and
- 21 everything else; we're not where we want to be.
- We have worked on our business plan to ensure that
- 23 we really focused our business plan on safety now, but we
- 24 haven't wrote our business plan out to our employees. So,
- 25 that was a hit that we took there from the policy level.

- 1 Then, we categorized the management value structure
- 2 as yellow. And once again, it's just we don't get a
- 3 consistent message. That was the area that we made yellow
- 4 under policy levels.
- 5 Now, if you move on up into the management area of
- 6 commitment, that's where you talk about the management
- 7 staff at the plant. If you go look at the acceptance of
- 8 responsibility, responsibilities commitment was classified
- 9 as yellow in that area.
- 10 You know, one of the things we looked at there is
- 11 our appraisal process. We then have these new competencies
- 12 that we've installed and we're going through our appraisal
- 13 process now. We won't finish it until next month. So,
- 14 because we haven't finished it, we classified ourselves as
- 15 yellow. That's only one of about 50 questions. But
- 16 because we have not finished it, we classified ourselves as
- 17 yellow.
- And, there is a large number of management
- 19 observations, once again, that I mentioned awhile ago,
- 20 larger than what I want to see, that's requiring coaching.
- 21 So, those two issues cause us to classify that, that
- 22 indicator as yellow.
- 23 If you move up in the individual area, we talked
- 24 about a drive for excellence. We classified that as
- 25 yellow. We have a number of systems that still have

- 1 performance problems, you know. They're classified as A-1
- 2 systems, if you will. Now, each and every one of those
- 3 have a plan to get them off the A-1 plan before startup,
- 4 but we haven't had them implemented yet. So, because we
- 5 haven't had them implemented we classified that as yellow.
- 6 Then, there is a large number of issues that's
- 7 facing us from a corrective action standpoint. There is
- 8 about three thousand issues facing us right now. That's a
- 9 lot, and we know that's a big battle. So, we classified
- 10 that as yellow.
- 11 Then, the number of Condition Reports in the
- 12 engineering area, we actually classified that as red,
- 13 because there is just answers, there is questions that you
- mentioned a while ago, that we just don't have the answer
- 15 to right now. We made that red.
- So, the overall area, the overall commitment was
- 17 classified as yellow.
- Now, under rigorous work control, we also classified
- 19 that as yellow. The reason we classified that as yellow
- 20 is, as we fill the reactor cavity, that's, this is only one
- 21 example, but we didn't have a contingency plan in place to
- 22 go look for leakage. You know, and we thought that should
- 23 have been there. Then, once we got into the reactor cavity
- 24 issue, we didn't pull the decision-making knob out and use
- 25 it as effectively as we should have initially. It took us

- 1 several hours to do that. So, based on that performance,
- 2 we classified that area as yellow also.
- 3 Then under nuclear professionalism, once again,
- 4 we're taking a double hit here, but we haven't finished our
- 5 ownership for excellence evaluations, and we've had several
- 6 minor radiation protection CR's written, issues that we
- 7 found recently. I think you all know some of those where
- 8 the people didn't, they worked in areas maybe they
- 9 shouldn't have, but those issues that we came up with
- 10 there, we thought were enough to classify the nuclear
- 11 professionalism area also as yellow.
- So, if you look at us overall, we said, we're ready
- 13 to load fuel. There is some actions we want to go take.
- 14 We've already taken some of those actions.
- But in the policy area, the overall area was white.
- 16 Management area we classified as white. And then the
- 17 individual commitment area was yellow; individual
- 18 commitment areas.
- 19 MS. LIPA: Let me ask you a
- 20 question before we go on. I'm looking at slide 33 with the
- 21 definitions and trying to make sure I understand. If we
- 22 use the individual's commitment area, for example, there
- 23 are five attributes that fit into that. Your definition
- 24 page, it would say yellow, all major areas are acceptable
- 25 with several indicators requiring management attention.

1 What's an area and what's an	indicator?
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- 2 MR. MYERS: The area would be
- 3 the individual commitment area, and then those indicators
- 4 are the various blocks on the righthand side, which are --
- 5 so there is a commitment area and then individual
- 6 commitments.
- 7 MS. LIPA: So, the page 33
- 8 then, when it defines yellow, it's talking about all three
- 9 major areas, you only have three major areas.
- 10 MR. MYERS: That's correct.
- 11 MS. LIPA: Okay. Thank you.
- 12 Oh, let me do a time check too, real quick, because
- 13 it's about 4:36, and we wanted to finish the presentation
- 14 part by around 5. So, that will help you plan the rest of
- 15 your discussions.
- 16 MR. MYERS: We're right on
- 17 target.
- 18 In summary, this is a pretty new concept. We think
- 19 this concept is pretty unique. We've never seen anybody as
- 20 a management team spending days trying to evaluate their
- 21 Safety Culture. I think it's pretty state-of-the-art, you
- 22 know, the process that we went through.
- 23 The Safety Culture assessment is innovative, in that
- 24 we think it's, once again, it's under refinement. You
- 25 know, we think gave us good messages. Provides a fair

1 assessment of our status. I think some of your guys said

- 2 in our meeting, it was fairly, it was very, very
- 3 objective.
- 4 It contains areas that are both qualitative and
- 5 quantitative for us to measure. We can go measure rework.
- 6 We can go measure performance in the field. We can measure
- 7 items rejected. But, you know, things that are hard to
- 8 measure, or a little harder to measure is, do our employees
- 9 understand and believe in our value system. You have to do
- 10 that by ad hoc surveys and stuff, and just questioning our
- 11 abilities. And, we found it to be a useful tool for us to
- 12 focus on, to go take management actions that we need to, to
- 13 correct the behaviors.
- We think the assessment is a fair representation of
- 15 where we're at right now and our results show it. For
- 16 that, I thank you.
- 17 Steve.
- 18 MR. GROBE: Before you go
- 19 on, Lew.
- 20 MR. MYERS: I knew I wouldn't
- 21 get by with that.
- 22 MR. GROBE: The question I
- 23 asked earlier, is this assessment process written down in a
- 24 station procedure policy, so that we can take a look at it
- 25 at the NRC?

1	MR. MYERS: V	Ve're doing that,	
2	as we said, we're turning it into a b	usiness policy,	
3	business guideline. It will be, you l	know how we do	
4	readiness restart reviews, we're ad	ding to that process,	
5	then we're adding to our business p	olan, and it will be an	
6	area we assess every month in our business plan.		
7	MR. GROBE: V	Vhen do you think	
8	it will be in a final company document?		
9	MR. MYERS:	believe before	
10	the next meeting.		
11	MR. GROBE:	Okay, the sooner	
12	the better.		
13	MR. MYERS:	t's going to be	
14	very soon.		
15	MR. GROBE:	Dkay.	
16	MR. MENDIOLA:	I have a simple	
17	question. You indicated each grou	up was interviewed for the	
18	readiness to load fuel I guess indiv	vidually. I would	
19	assume then that each group has	their own Safety Culture	
20	Assessment chart, if you would, at	a group level.	
21	MR. MYERS:	What they have is	
22	a group of questions that they ans	wered. Then, as they	
23	came in, we challenged them on the	nose questions.	

MR. MENDIOLA: I would assume

that the answers, their answers to each of those, I think

24

1	you said 50 questions, right?
2	MR. MYERS: I don't know.
3	MR. MENDIOLA: Would be, if you
4	will, pulled into each of these individual elements and
5	then into each of the individual commitments. So, I would
6	assume there would be a culture assessment on a group
7	basis, at a group level, that would then roll up into this
8	final overall culture assessment.
9	MR. MYERS: I think the
10	answer, I don't know if the answer to that is exactly yes
11	or not, but close to it. They came in with their charts
12	filled out. And, to be real on he is with you, there were
13	some people that came in and called things red, but after a
14	lot of discussion, they were made yellow. There were some
15	things people brought in they said were green, and by the
16	time we got through with them, they ended up being yellow.
17	There were a lot of areas I've got the complete
18	list here with me. There is a lot of individual areas that
19	we classified as red, as a matter of fact, and some areas
20	yellow. If you want to look at the overall results of the
21	report, the questions we asked and everything else; what we
22	do is, we took good notes for the entire meeting. We can
23	share that with you.
24	I think the answer to your question is overall yes,

but I'm not sure that we evaluated each and every area on a

1	Safety Culture standpoint.
2	MR. MENDIOLA:

Okay, the interest

- 3 in feedback obviously, that each individual group, if you
- 4 will, has their grades, so to speak, their self-assessment
- 5 policies.
- 6 MR. MYERS: Yes.
- 7 MR. MENDIOLA: And they take them
- 8 back to see, to improve themselves.
- 9 MR. MYERS: If it requires
- 10 management attention; for instance, there was one area, one
- 11 group, that the overtime was in question right now. So,
- we've already met with that group, and gave some direction
- 13 on where we want to see them reduce the overtime. So, a
- 14 lot of things, we're already beginning to take action on
- 15 those things. So, each group, you're right, walked away
- 16 with feedback and actions.
- 17 MR. MENDIOLA: Okay, thank you.
- 18 MR. MYERS: Okay. Steve.
- 19 MR. LOEHLEIN: Thank you, Lew.
- 20 I'll try to be brief.
- 21 As you know, on the NRC Nuclear Quality Assessment,
- 22 or NQA, it's our job to find problems, basically to find
- 23 the problems that no one else in the organization has, and
- 24 get them corrected. It's also our job, our value really is
- 25 measured in the types of things we can find. If we can't

- 1 or don't find issues of value, then we can't be effective
- 2 in improving the safety performance of the plant. So,
- 3 that's our mission.
- 4 What I'm going to share with you today are some
- 5 examples of activities that we do that really fall into two
- 6 simple categories; one is observations. Now, on
- 7 observations this is where we are trying to ensure that
- 8 actions and decisions that are being made are appropriate.
- 9 And if they're not, then we intervene if necessary to
- 10 ensure the proper outcome. Examples of this would be
- 11 participating in meeting settings, review boards,
- 12 briefings, that sort of thing.
- We also have the audit and assessment portion of our
- 14 activities, which deals with measuring against the standard
- 15 or acceptance criteria for a plant activity. And in those
- 16 cases, we provide feedback, usually via conditional reports
- 17 and audit records.
- So, what I've done is I've separated slides into
- 19 three parts, results from recent activities on the first
- 20 slide that I'll go through, then the other two deal with
- 21 ongoing assessments, and the last one for our plans for the
- 22 future here, near future.
- So, there's a number of items listed there. I'll
- 24 try to pick some of the high points. First, fuel spacer
- 25 grid damage and the associated stop work. I'm sure the NRC

1 is aware of the stop work that NQA imposed on us a few

- 2 months ago on the movement of fuel.
- 3 Randy Fast talked to you about different types of
- 4 grid strap damage that was being found. That had occurred
- 5 in the past. Corrective actions had been taken, which when
- 6 found new damage now, NQA was not satisfied that we had in
- 7 place the necessary controls to make sure we would not have
- 8 future damage, so that's why we imposed the stop work.
- 9 There was ultimately a formal Root Cause Evaluation
- 10 done. And we have, we are satisfied here in the last few
- 11 days that the compensatory measures and corrective actions
- 12 necessary to make fuel movement safe was achieved.
- 13 I think that was a case, one of the cases where NQA
- 14 didn't have to, thought they needed to impose stop work
- 15 authority.
- 16 Restart Station Review Board Decision-making. This
- 17 is an interesting area. It's a meeting that we observed
- 18 with quite a bit of regularity, because this team, this
- 19 review board team is evaluating which activities or which
- 20 Condition Reports and Corrective Actions need to be
- 21 performed prior to restart versus post restart.
- So, naturally NQA, our main vision is to make sure
- 23 that the decisions made there are made conservative. But,
- 24 while in the process of observing that, or any activity,
- 25 sometimes we find issues in related areas. And in one, in

- 1 a case that we're looking at, one of these review boards,
- 2 the Restart Station Review Board, came to light that one of
- 3 the Condition Reports that had been evaluated for post
- 4 restart was done on the basis that an issue, the only issue
- 5 that might be restarted was going to be handled on a
- 6 different Condition Report.
- Well, under the charter of the Restart Station
- 8 Review Board, they don't question whether that translation
- 9 actually happens. It's not part of their scope. In a
- 10 particular case, we found that that transference of that
- 11 issue to the other Condition Report had not actually
- 12 occurred. So, we identified that on a Condition Report and
- 13 aligned the evaluation to make sure we don't have more
- 14 cases of that type of situation.
- 15 In other related type of looks, we found a few cases
- 16 where Work Orders were deferred to post outage; whereas,
- 17 the Corrective Actions that were associated were still
- 18 properly shown as prerestart. So, the organization had not
- 19 lost track of the item from a Corrective Action standpoint.
- 20 There was this concern that perhaps something could, would
- 21 be found in the way a work order had been retargeted post
- 22 restart. This again, we identified on a Condition Report
- 23 and underlined as to looking to what that means in terms of
- 24 scope and we will monitor that.
- 25 Since we are on a time bind, there is a number of

- 1 them up there, I think there's a couple of key ones. If
- 2 you have any questions on any of those in particular,
- 3 please say so; otherwise, I'll move on to some of the
- 4 ongoing things we're doing.
- 5 On the next slide, there is a list of the things
- 6 that I have both past assessment activities and things
- 7 we're doing right now.
- 8 In the System Health Readiness Review, that's an
- 9 area that's been discussed at some length here. We know
- 10 from past meetings with you, with the NRC and others here,
- 11 that we had done five independent reviews of systems
- 12 ourselves, and to do a comparison.
- 13 We had concluded that the System Health Readiness
- 14 Reviews were successfully done. We did find some
- 15 differences, and overall in that whole process, I had
- 16 written about 60 Condition Reports identifying the
- 17 differences in other enhancements that we at NQA
- 18 recommended. None of those resulted in us identifying a
- 19 significant condition or that we felt that the process had
- 20 not worked properly.
- 21 Program Reviews is ongoing right now, because we
- 22 have, in a similar fashion, we performed six independent
- 23 program reviews, and we're right now gathering our delta
- 24 comparison on these programs, what we found compared to
- 25 what the line found.

am,

- 2 The TEP ODP, which is the Test Equipment Procurement
- 3 Operability Determinations Process, Reliability Program,
- 4 and Classification Process, which takes a look at how the
- 5 organization decides whether something is or is not a
- 6 safety related item, either materials area or in the work
- 7 function area. And, we're compiling our data right now and
- 8 we'll be initiating Condition Reports as appropriate for
- 9 that.
- 10 We also reviewed six Phase I Reviews, or we observed
- 11 six Phase I Reviews and looked at five Phase II Reviews
- 12 that were performed by the line.
- Another area here that's ongoing is the area that's
- 14 probably of interest is Safety Culture and Safety Conscious
- 15 Work Environment and Independent Survey. What we did in QA
- 16 is we just last week completed a ten percent survey of the
- 17 plant staff, face-to-face interview style survey.
- Now, we're still digesting what all those results
- 19 are telling us, but I thought I would share with you some
- 20 of the initial impressions of the results.
- 21 First, in all the interviews we conducted, none of
- 22 the individuals stated that they had personally experienced
- 23 retaliation in response to identifying a concern. We had
- 24 all but one individual indicate that they would personally
- 25 use the Corrective Action Program to identify concerns as

- 1 their first, that's the first place they would go.
- 2 After those two items, the next few bullets I have
- 3 for you have to do with their perceptions. A lot of these
- 4 questions we asked them, and we have this in Safety
- 5 Conscious Work Environment, is really about how do they
- 6 feel about what they hear, and you know, even if they have
- 7 not been personally involved in a situation.
- 8 Over 95 percent of the sampling told us that they
- 9 believe that management wants employees to report
- 10 problems. About 90 percent did not feel that the
- 11 possibility -- I'm sorry. I'm trying to characterize this
- 12 right.
- 13 The way we asked the question was, had they heard of
- 14 issues with retaliation. They themselves had already told
- 15 us they didn't experience. We asked them, do you believe
- 16 retaliation is a possibility or an issue that you've heard
- of in the last three months, was not properly dealt with.
- 18 From that perspective, there were 90 percent of those
- 19 people identified that they felt this concern had been
- 20 properly addressed. Ten percent of them felt they had
- 21 heard something somewhere that it had not gone right.
- 22 And about 80 percent felt that the identified
- 23 concerns had been completely and effectively resolved.
- So, these numbers, we think, are improvements over
- 25 the numbers that Bill Pearce had presented some months

- 1 back, but it's the kind of thing we're continuing to look
- 2 at. These are just our early, the early data we've got
- 3 based on what we completed late last week.
- 4 MS. LIPA: Steve, was that
- 5 ten percent a random ten percent? I might have missed that
- 6 part?
- 7 MR. LOEHLEIN: Yeah, the way we
- 8 actually did it, Christine, is we took the organization
- 9 chart of supervisors and below, so no one above supervisor
- 10 was included in the sampling. Then, we went through the
- 11 Org. charts and picked up, like every so many we picked a
- 12 name, whoever that happened to be, and that's how we
- 13 established the randomness of it.
- 14 MS. LIPA: Thank you.
- 15 MR. LOEHLEIN: Are there any more
- 16 questions on the examples I put up here?
- 17 In terms of upcoming observations which are on the
- 18 next slide, probably a good one to mention was the fuel
- 19 movement activities. Assume that the plant conditions
- 20 support fuel movement. That will be the next really
- 21 important thing for QA to observe.
- 22 And we will be providing coverage on every shift to
- 23 look at fuel movement activities. And, we're real
- 24 interested in things like the preevolution briefs, command
- 25 and control in the field, and proper application of the

- 1 compensatory measures that are being taken to prevent fuel
- 2 damage.
- 3 Another important one that is taking place now is
- 4 radiation protection activities, because now the plant will
- 5 be moving fuel. We'll have changes in RWP Requirements,
- 6 Radiation Worker Requirements, and that sort of thing.
- We have already taken a look at the high red areas
- 8 and having all those, were properly established.
- 9 MR. PASSEHL: Just a question.
- 10 How do you, or what's your mechanism for capturing your
- 11 observations in writing? Do you submit reports or?
- 12 MR. LOEHLEIN: Yeah, we had a
- 13 data base known as the QFO, Quality Field Observation.
- 14 It's a data base that's really not too dissimilar from what
- 15 the management team uses for management observations to
- 16 capture what we see in observations there. But, of course,
- 17 it doesn't mean that we also don't have Condition Reports,
- 18 quite of number of them actually, in areas that we write as
- 19 we do observations and assessments. That's where we
- 20 capture all our information and we share with line
- 21 management and they result in the basis for our quarterly
- 22 audits.
- 23 MR. PASSEHL: So, I guess, do
- 24 you roll up your observations, say Program Reviews, System
- 25 Health Readiness Reviews with a separate assessment report;

1	or, it sounds like you don't do that?
2	MR. LOEHLEIN: Well, we, in terms
3	of, it's probably going to depend on what you're talking
4	about. On System Health Readiness Reviews, we have talked
5	about how we are going to do rollups when that whole
6	process is completed, but in the interim we're using our
7	Continuous Assessment Process, the parts of it that fit our
8	Standard Master Assessment Plan, as we call it, get
9	reported as part of the quarterly assessment. But you're
10	right, there are some areas like that, that we are planning
11	to write individual reports on the results at the end.
12	MR. PASSEHL: I see. And have
13	you mapped out your assessment activities beyond fuel
14	movement?
15	MR. LOEHLEIN: Well, what we do
16	most of our, we have a plan we set up, we produce a
17	quarterly assessment plan. And the whole thing is we have
18	a number of things that we see or look at periodically.
19	And what we do is we look ahead to what the station's
20	schedule of activities is planned to be.
21	We look for those areas that, you know, key areas of
22	perhaps vulnerability in terms of safety and that sort of
23	thing, and we ensure that those elements and attributes
24	that apply to those kinds of activities are included in our

plans for that quarter. That's how we do it.

1	MR. PASSEHL: Okay, thank you.
2	MR. LOEHLEIN: I think the
3	Resident receives a copy of our Quarterly Assessment Plan
4	to share them with you. If you need a copy, we can get you
5	one.
6	Overall, I think I would like to make a concluding
7	statement really about how we feel at NQA in what we're
8	seeing, and that is overall we're observing a lot of good
9	performances in many areas, but we continue to provide the
10	feedback that's necessary to ensure that improvements and
11	corrections are made when appropriate.
12	MR. GROBE: Thanks, Steve. I
13	appreciate that briefing. I actually have a question for
14	Bill Pearce, and I was wondering if you might come up. I
15	saw you back there.
16	One of the changes in the organizational structure,
17	one of the Corrective Actions for the Root Cause was to
18	separate Quality Assessment from the Line Organization at
19	the site. You have a very unique reporting relationship in
20	that new structure. You report both to the President of
21	FirstEnergy as well as to the Nuclear Subcommittee Board of
22	Directors.
23	I was wondering if you could talk a little bit about
24	what sort of interface you have with the President of
25	FirstEnergy, and the Subcommittee of the Board.

1	(Off the record.)
2	MR. MYERS: Can I ask a
3	question real quick? Right now, I think, the charts are on
4	the wall for the schedule part. I feel comfortable
5	deleting that.
6	MR. GROBE: That would be
7	great.
8	MR. MYERS: Okay.
9	MR. PEARCE: First part about
10	meeting with the President, I actually talked with Bob
11	Damon on the telephone, and we talked about what's going on
12	at the three sites, and how I perceive it. And of course,
13	we talked to the line organization also.
14	If I see something, and I've had several times where
15	I did, where I called Bob about something that I saw going
16	on, to give him what I thought was a different perspective
17	of what we're doing, and provide some information or
18	insight into what I think is going on. So, I think that
19	demonstrates some amount of independence.
20	And I pretty well watch, I spent most of my time at
21	Davis-Besse, and the majority of my time; and both working

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with the Quality Assurance Organization and Employee

may need some assistance or help.

Concern Program, in trying to assess, get some feel of how

things are going, and where the Quality Assurance Program

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23

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1	In fact, every day when I'm there, which is like I
2	said about 90 percent of the time, I go down in the
3	mornings and get some update on what they're doing, what
4	they're seeing, you know, what they're interaction with the
5	staff is, and how they're feeling about things.
6	So, I guess that's really what I'm doing, Jack.
7	In regard to the Nuclear Committee of the Board,
8	they meet monthly. I meet with them monthly, as does the
9	Line Organization. And, I try to give some independent
10	view as to, from a safety perspective of where we're going,
11	not just how we're doing it, you know, getting work done,
12	or how we're doing in the outage, but from a safety
13	perspective; focus on issues that are relevant to, like
14	fuel integrity, RCS integrity, containment integrity,
15	health of the safety systems and provide some insight from
16	a safety perspective to the board, to the different
17	committees of the board.
18	So, that's some independence I think I provided.
19	Other than the Line Organization, they of course give their
20	reports and I give mine. And they don't always match
21	exactly, but at least the Line, I think they know what the
22	issues that I have are.

give one example of a situation where you had a differing

perspective than what the Line Organization had on a

MR. GROBE:

23

24

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Could you just

1 specific activity? 2 MR. PEARCE: Sure. I just 3 gave, I think the last time I think it was, the Line reported about what was going on at Beaver Valley on the 4 5 steam generators. And, I had some concern whether, whether 6 the Nuclear Committee of the Board fully appreciated the 7 condition of the steam generators at Beaver Valley. So, I 8 tried to give some definition, technical definition of 9 that, that they could understand, and to make them 10 understand where we were. 11 It's, I think that's something, that level in the 12 organization needs to understand, that they need to support 13 what we're doing over there with those generators. MR. GROBE: 14 Okay. Let me just characterize what I think I understood you to say. 15 16 You provided some additional context from your perspective, 17 so that there would be a complete understanding of the 18 situation in that one example. Is that correct? 19 MR. PEARCE: That's correct. I can give you some other examples, if you let me think of 20 21 them. 22 MR. GROBE: No, I just wanted

Right.

Okay, thanks.

one, just to make sure I understood.

MR. PEARCE:

MR. GROBE:

23

24

1	MR. PEARCE:	You're welcome.
2	MR. GROBE:	Any other
3	questions?	
4	At this point, Lew, do you h	ave any closing remarks
5	that you want to give?	
6	MR. MYERS:	Yes, I do. I
7	would like to take a moment for	that.
8	You know, backing up, befo	ore I get started, I can
9	tell you there has been times fro	om a schedule standpoint
10	and all, that Bill give, or cost sta	andpoint, that Bill give
11	the board a different perspective	re than I did. I'm always
12	giving the most aggressive pers	spective. So, I know there's
13	been some differences there.	So, I can assure you, he's
14	brutally honest from his perspe	ctive. There is another
15	example.	
16	In closing, you know, I war	t to talk about fuel
17	movement. We're not, we're no	ot going to move fuel until
18	we're comfortable with the clea	rance of the vessel. That
19	may take longer than we expec	t, especially if we wind up
20	having to review internals or so	mething, but we'll do that
21	if we need to.	
22	We're sitting here today. V	Ve looked at the tapes
23	before we came here. We're g	oing to work it for the next
24	twelve hours or so, but we're lo	oking at other options
25	also. So, fuel movement is em	inent and we feel like we're

- 1 very ready for that when the time comes.
- 2 Containment testing will be completed in early
- 3 March. We're looking forward to that. We already have the
- 4 air compressors lined up, good owner of the program, and we
- 5 feel of that project, feel like we're closing in on being
- 6 ready to pressurize that containment.
- 7 System reviews showed good, good progress. We don't
- 8 have all the questions answered. We know that. But we've
- 9 got them in our data base, and we have people working on
- 10 all of them. So, we're pleased with the progress we made
- 11 there so far.
- 12 The one thing, I think it served us well that we
- 13 haven't, we talked a lot about, is Safety Culture
- 14 evaluation, that the Readiness Restart Review for fuel load
- 15 that we did. We identified over a 170 issues that we took
- on as a management team before fuel load. One of them was
- 17 to ensure that we wanted to have the other decay heat train
- 18 functional. And that wasn't a requirement. We thought it
- 19 gave us added value. So, we've got both decay heat trains
- 20 available.
- 21 Additionally, once again, we think that serves us
- 22 well. We think that Safety Culture did serve us well.
- 23 Eventually, I have a prepared statement though that I
- 24 wanted to provide you. And I'll do that now. I prepared
- 25 this today.

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1	At (our Janua	rv sum m	eetina wii	in NKC in	Lisie.

- 2 Illinois, we reported that we had recently, it was reported
- 3 that we had recently been informed that several persons
- 4 have been subject to retaliation for raising safety
- 5 concerns at Davis-Besse.
- The person claimed that within the past two weeks at
- 7 least two employees who have raised safety concerns to
- 8 their immediate supervisors or stopped work for safety
- 9 reasons received letters of reprimand, verbal threats of
- 10 harm by co-workers and/or experienced damage to their
- 11 personal property while on site, specifically that tires
- 12 were slashed.
- When I got back, I requested our attorney to contact
- 14 the individual, and obtain a more, obtain more specifically
- 15 information, so that we could perform a meaningful
- 16 investigation of these allegations. Our attorney called
- 17 the individual on two occasions and left detailed messages
- 18 requesting information. Neither call was returned.
- 19 We conducted a review of our records and concluded
- 20 the allegations most likely corresponded to two separate
- 21 events that we know of. One occurred more than six months
- 22 ago, and the other within the last month. Our
- 23 investigation of both events did not substantiate
- 24 retaliation to raising safety concerns.
- We are in the progress on actions for the second

- 1 event. Management received, management received the
- 2 discipline for the employee in question and has retracted
- 3 the issue at the time of the meeting on January the 30th.
- 4 This issue had to do with the practice at Davis-Besse of
- 5 employees leaving early without supervisor notification,
- 6 not a safety issue.
- 7 Our message is clear. Bring us the allegation.
- 8 We'll address that. We can not solve problems unless we
- 9 have all the relevant information. We all share the
- 10 responsibility to maintain a Safety Conscious Work
- 11 Environment at Davis-Besse. I'm firmly committed to that.
- 12 We encourage interested members of the public to
- 13 share in that responsibility with us. I thank you very
- 14 much.
- 15 MR. GROBE: Okay. Thanks,
- 16 Lew.
- 17 I think what we'll do right now is just move right
- 18 into the question and answer session without taking a
- 19 break. That way we'll get folks to dinner at a reasonable
- 20 hour, if that's okay. Christine and I will just step down
- 21 in front.
- 22 MS. LIPA: What we would
- 23 like to do is have everybody sign in and state your name
- 24 clearly. Just make sure we have a sheet up here.
- 25 Sign in, state your name clearly for the

- 1 transcriber, and then we're really going to keep people to
- 2 3 to 5 minutes. This is one of the feedbacks that we've
- 3 gotten in the past is we haven't kept people to the time
- 4 limit. So, we're going to be policing that a little bit
- 5 better this time.
- 6 MR. GROBE: Before we get
- 7 started, I just wanted to make two observations. One was
- 8 we also received a lot of feedback regarding the quality of
- 9 our sound system. I think this is an improvement. I think
- 10 that the microphones have been working much better than
- 11 they have in the past.
- 12 If you do have feedback though, we are continuing to
- 13 respond. We have made several revisions to the sound
- 14 system in the last couple of months, and this one seems to
- 15 be effective. So, I want to thank the folks here at Camp
- 16 Perry for this sound system.
- 17 I also wanted to comment on an action that the
- 18 Agency took today that some of you may have heard about.
- 19 In the continuing Agency response with all pressurized
- 20 water reactors in the United States, the Agency has issued
- 21 orders to each operating pressurized water reactor in the
- 22 United States, specifying NRC expectations for future
- 23 examinations of reactor head penetrations.
- 24 After the discovery of the situation at Davis-Besse,
- 25 actually preceded Davis-Besse, the Agency had initiated a

- 1 number of what we call generic activities; that's
- 2 activities that affect more than one Licensee. The
- 3 inspections that Davis-Besse was doing during the outage in
- 4 February of 2002 was in response to an NRC bulletin
- 5 requesting certain examinations and inspections of head
- 6 penetrations.
- 7 After Davis-Besse, that continued. There were two
- 8 more bulletins issued. And, just today there were orders
- 9 issued to every operating PWR in the United States. So,
- 10 those are activities that really have little to do with
- 11 what we're doing here; that is, assessing Davis-Besse's
- 12 progress toward approaching restart, but I just wanted to
- 13 make sure everybody was aware of that.
- So, are there any, I think first local officials
- that have a question or a comment?
- Okay, are there any members of the local area around
- 17 the plant that have a question? Quiet, satisfied group or
- 18 a very hungry group; one or the other.
- 19 Okay, are there any other members of the public that
- 20 have a question or comment?
- 21 Excellent.
- 22 MR. RIDZON: Paul Ridzon with
- 23 McDonald Investors.
- 24 Jack, at the close of every meeting, you always give
- 25 an overview of the meeting, and your take on progress

	1	made.	That's what I	always	thought w	as the	valuable	part
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- 2 of the meetings. I wonder if you could provide that to us
- 3 now.
- 4 MR. GROBE: I was afraid you
- 5 were going to say a benediction.
- 6 I think my perspective and the panel's perspective
- 7 hasn't changed over the last several months; that the plant
- 8 continues to make progress in running their Return to
- 9 Service Plan. We continue to have inspections and our
- 10 inspections have not disclosed any significant issues in
- 11 their activities.
- 12 Last month was a busy month. The meeting on January
- 13 30th was very meaningful. FirstEnergy has clearly
- 14 articulated their plans for assessing Safety Culture, going
- 15 forward, and the proof is in the pudding, of course. We
- 16 need to see those plans fleshed out in paper, so that we
- 17 can understand them and evaluate them; and then we need to
- 18 see them implemented. So, progress is being made, and I
- 19 think it's being made on every front.
- 20 MR. RIDZON: Could you give a
- 21 sense as to what level of implementation is required for
- 22 restart? Obviously, you can't get a hundred percent of the
- 23 way, I guess Sonya at one point said that it takes three
- 24 years for this to kick in. I expect we're not going to --
- 25 MR. GROBE: Oh, I understand

- 1 your question. Let me articulate it to make sure I
- 2 understand it. Your question has to do with the level of
- 3 Safety Culture that is necessary for restart.
- 4 What we're waiting for is for FirstEnergy's
- 5 definition, so we can clearly understand the threshold that
- 6 they've set. In broad terms, the threshold is that none of
- 7 their areas of performance will be in the red category.
- 8 They've established colored categories for their
- 9 performance. We need to see what's behind that. What goes
- 10 into those assessments.
- 11 Lew presented in broad terms the assessment they did
- 12 for fuel loading. Again, we need to see the details that's
- 13 behind that before we can make a judgment as to whether or
- 14 not we agree with their assessment scheme; and we'll do
- 15 that as soon as they have it for us.
- 16 MR. RIDZON: Thank you.
- 17 MR. GROBE: Hello, Amy.
- 18 MS. RYDER: How are you?
- 19 My name is Amy Ryder. I'm with Ohio Citizen
- 20 Action.
- 21 I have a question about this infamous red photo that
- 22 was taken back in April of 2000. Apparently, this was
- 23 reported in the Cleveland Plain Dealer, that a Condition
- 24 Report was written about this photo in April of 2000; was
- 25 given to a FirstEnergy supervisor, and then was turned over

- 1 to an NRC inspector. Now that it's clear that both the NRC
- 2 and FirstEnergy knew that the condition of the reactor
- 3 was -- or that it was corroding, that there was a
- 4 significant amount of rust; does the NRC still stand by its
- 5 decision that they should not have issued the immediate
- 6 shutdown order?
- 7 MR. GROBE: I'm not sure --
- 8 MS. RYDER: Your agency --
- 9 MR. GROBE: I'm not sure what
- 10 your question is, but let me step back and make sure that I
- 11 understand it.
- 12 The photograph you're talking about is the one that
- 13 showed rust materials coming out of the, what are called
- 14 weep holes on the side of the reactor vessel.
- 15 First, to the best of my knowledge, the NRC did not
- 16 see that photograph until the Augmented Inspection Team
- 17 received that photograph as part of the background
- 18 information that they reviewed. That was in March and
- 19 April, early April of 2002.
- 20 This specific question is under review within the
- 21 NRC, and I don't know the results of that review, but I
- 22 think the second question that you asked was whether we're
- 23 revisiting the issue of issuing -- or not issuing an order
- 24 near the end of 2001. And I think the Chairman fairly
- 25 clearly articulated the agency's position on that in his

1 letter to the Inspector General in response to the

- 2 Inspector General's investigation of that matter.
- 3 So, I don't have anything more to add beyond what
- 4 the Chairman stated.
- 5 MS. RYDER: My understanding
- 6 was that Condition Report was turned over to an NRC
- 7 inspector long before April of 2002.
- 8 MR. GROBE: That was
- 9 information that I believe the Union of Concerned
- 10 Scientists put out and I don't know what the foundation of
- 11 that is, and it's under review. To the best of my
- 12 knowledge, the first time we saw that photograph was March,
- 13 middle of March, between the middle of March of 2002 and
- 14 the first week in April of 2002.
- 15 MS. RYDER: So, their
- 16 information is wrong?
- 17 MR. GROBE: That's, to my
- 18 understanding it is. That's correct, but it's under
- 19 review, and I'm not part of that review. So, it's being
- 20 looked at.
- 21 MS. RYDER: Okay.
- 22 MR. GROBE: Other questions?
- Okay, very good. I guess the rest of you are
- 24 waiting for our meeting at 7:00 this evening, when we're
- 25 going to have a general public meeting and receive

1	questions and comments from the public at that time.
2	Thank you very much.
3	(Off the record.)
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1	CERTIFICATE
2	I, Marie B. Fresch, Registered Merit Reporter and
3	Notary Public in and for the State of Ohio, duly
4	commissioned and qualified therein, do hereby certify that
5	the foregoing is a true and correct transcript of the
6	proceedings as taken by me and that I was present during
7	all of said proceedings.
8	IN WITNESS WHEREOF, I have hereunto set my hand and
9	affixed my seal of office at Norwalk, Ohio, on this 21st
10	day of February, 2003.
11	
12	
13	
14	Marie B. Fresch, RMR
15	NOTARY PUBLIC, STATE OF OHIO
16	My Commission Expires 10-9-03.
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