

1 The other thing that Mike talked about, the deep
2 drain valve work, the reactor coolant pump work is
3 ongoing.

4 I'm just going to walk through, I think for maybe
5 the purposes of demonstrating, going through these pictures
6 and I'll point some items out.

7 Okay, we talk a lot about this emergency sump. This
8 is a pit right here. And under design basis accident,
9 you're flowing water into the containment building. And it
10 fills up from under vessel, and all of the water then, from
11 this elevation right here, which is actually the 565 foot
12 elevation of containment; it floods up about 18 inches
13 above that. That's under design basis, the amount of
14 water, about a half million gallons or so that go into
15 containment.

16 This was covered with a screen, kind of a chicken
17 wire affair, if you will, that was not very substantial and
18 only forwarded us about 50 square feet of screenage. Why
19 that's important is that this water as it fills up then
20 comes through these two valves. They're what's called
21 vortex breakers, cruciform breakers, that allow
22 antivortexing of water that's going back into the cooling
23 system for redistribution back into containment.

24 This area was covered over. That has been
25 completely removed. This is a stainless steel backing

1 plate. There are structural beams. In fact, I walked this
2 down yesterday. Two of those beams that Mike is talking
3 about have been installed. Quite a substantial
4 configuration here.

5 This area, it will be called the top head. Now
6 we're looking at a kind of 45 degree angle here, so this
7 top hat area has about three hundred square feet area of
8 screen that will allow at 18 inches above that elevation,
9 that will allow water to flow into that area and be
10 redistributed.

11 Now, on the far side of this sump is a cutout area.
12 We've started that, that cutout now. It's about 18 inches
13 wide, about 30 inches long, and that will allow some
14 extension pipes, which are drilled pipes to go down under
15 the vessel, and we'll see another conceptual design. But
16 actually, when I was walking it down yesterday, one of the
17 pipe sections had been mocked up with a piece of
18 insulation, so the guys could actually figure out, will it
19 fit in there properly. That will add another several
20 hundred, about up to a total of 1200 square feet of
21 screen.

22 So, you maybe can't get a lot of picture. These
23 covers here, that's plastic. It's a foreign material
24 exclusion cover, so we don't want to get any grit or debris
25 in this pipe. So, they're covered over.

1 You see a chainfall here for lowering and raising
2 equipment into that sump.

3 MR. SCHRAUDER: Randy, I walked it
4 down this morning and they've got four beams done.

5 MR. FAST: Oh. So, we got
6 two beams done since yesterday. Excellent. Thank you,
7 Bob.

8 Okay. This is the decay heat valve pit. Now, it's
9 very difficult to get the concept here, but in this
10 recirculation mode, there are two valves here; Decay Heat
11 11 and Decay Heat 12. And they will redistribute water,
12 so these have to be able to be open after a design basis
13 event.

14 This pit or sump is 19 feet long, 7 feet deep and
15 about 7 feet wide. So, the walls of this sump will be
16 lined with stainless steel and sealed to allow proper
17 environmental controls after a design basis accident. So,
18 that's what Mike was briefing us on a little bit earlier.

19 This is the fan blades for containment air coolers.
20 Now, containment air coolers are basically like an air
21 conditioner for your house in that it redistributes air to
22 ensure proper environmental controls. In a design basis
23 accident, we recirculate air for making sure that the
24 temperature and the pressure in containment is minimized.
25 So, this is one of the fan blades.

1 I'm trying to give you a concept of how, they're
2 about, I would say, 8 feet in diameter. So, these are
3 pretty significant.

4 These, this is the structural platform for the
5 cooling coils. You can see just, kind of see, you don't
6 get the whole piece of it. This would be one, like a
7 radiator from your car, so that's one cooling coil. There
8 is one, two, three, four sides of the box, so a total of
9 twelve.

10 Coming down and distributing service water, which is
11 the cooling medium for the containment air coolers are the
12 inlet and outlet piping. That's what we have redesigned
13 and we'll be reinstalling this stainless steel improved to
14 ensure proper flow distribution through the containment air
15 coolers. This is at 585 foot elevation. This spans
16 basically from the 585 down to the 565 foot elevation.

17 Next slide. This is just looking up into the fan.
18 So, we're down at 565 foot and you're looking up into the
19 fan. So, air is distributed from containment at 585 feet
20 through the cooling coil, down through the fan, down into
21 an outlet plenum and then back and ~~redescribed~~ redistributed back
22 inside of the D rings where the steam generators are located.

23 Not a lot to see here, but we're using a sponge
24 blast process to remove paint from equipment in
25 containment. This happens to be core flood tank number

1 one. It's tinted. We use a sponge blast media. It's
2 pretty nonintrusive. It does remove paint. It preps the
3 surface, and we have pictures of what it looks like when
4 we're done.

5 There is the tank painted bright white and
6 completely remediated. This is an engineered coating.
7 Now, why do I use the term, engineered coating? It's
8 because in reality this will sustain under design basis
9 accident, so it's an approved long term, won't remove from
10 jet steam impingement or any conditions that would exist
11 post-accident.

12 MR. MYERS: Would it be fair
13 to say from a coating standpoint, we understand our
14 coatings better than at any plant you worked at now?

15 MR. FAST: We know a lot
16 about paint. We've certainly, we've partnered with the
17 industry best and brightest and I feel good about the
18 condition that we're leaving the condition in.

19 Okay. With that, I'm going to turn it over to Jim
20 Powers.

21 MS. LIPA: I did have a
22 question for you, Randy.

23 MR. FAST: Yes.

24 MS. LIPA: Several meetings
25 back, we talked about the coatings on the conduits. Has

1 that issue been resolved?

2 MR. FAST: The coatings on
3 the conduit is unqualified. And let me go into a little
4 detail on that. When the plant was originally built, one
5 of the things that was done, you have galvanized, which is
6 a normal coatings process, on the conduit, but somehow we
7 elected to go back and paint it. And, that paint is not
8 qualified. So under design basis, some of that paint will
9 be removed.

10 Some of what we're doing with the emergency sump
11 screenage will allow for some of that paint, as it's
12 removed, will be trapped by that screen. So, we'll have
13 sufficient margin that right now, based on our engineering
14 analysis, we can have some coatings, unqualified coatings,
15 and still maintain margin for the sump.

16 So, the target areas we had was containment dome,
17 the core flood tanks, service water piping, and we do have
18 some other selected areas. We do have an initiative where
19 our Operations staff is taking a leadership role in
20 removing some of the coatings using other processes; not
21 sponge blasting, but just to remove some of those
22 unqualified coatings inside the D rings. But not all of it
23 will be remediated.

24 MS. LIPA: Okay. I think
25 that this is probably a good time for a break. I know

1 you're all ready, Jim, but we'll take a ten minute break
2 unless you had any questions.

3 MR. GROBE: I just wanted to
4 make sure I was clear on this. So, it's your intention to
5 not removed the unqualified coatings from the conduit based
6 on the design margin sump?

7 MR. POWERS: Not entirely,
8 Jack. That's correct. I'll talk a bit about the sump
9 after the break, but it adds a good deal of margin and
10 we're factoring in whatever unqualified coatings remain in
11 containment will be factored into the design basis of the
12 sump, and in the last meeting we discussed making sure the
13 license basis reflects that as well.

14 MR. MYERS: Let me answer
15 that question. I met with a coating engineer last week,
16 and our intention, we're going to buy some, we're going to
17 try to sponge blast the stuff. We're going to buy some
18 stuff, I hate to say like you see on TV, where you put it
19 on and it takes the paint off.

20 The operators are going to do that. We're going to
21 get as much of that coating off that conduit as we can
22 before we start up. That will give us excessive margin.
23 From a design standpoint, it's not a problem, but it just
24 doesn't do anything but gain margin, so we're going to
25 remove as much of it as we can. Okay?

1 MR. DEAN: Let me ask, Jim,
2 are you going to get in a discussion of, you know, there
3 has been operability concerns about the containment air
4 coolers and the coatings; is that something you will have
5 an opportunity to discuss?

6 MR. POWERS: Sure, I can give
7 you an update on that. We're not entirely finished with
8 that, but I can give you an in-process update.

9 MR. MYERS: Now we have eight
10 minutes?

11 MS. LIPA: Okay, let's start
12 our ten minutes now. It's 3:23, be back at 3:33. Thank
13 you.
14 (Off the record.)

15 MS. LIPA: Okay, go ahead.

16 MR. POWERS: Okay. There is
17 two things I would like to update us on this afternoon;
18 one is the status of the System Health Assurance Building
19 Block and the other is an update on the NRC public meetings
20 we had at headquarters in Rockville on November 26th, both
21 about the emergency containment sump and the undervessel
22 incore nozzles.

23 The first issue I want to touch on is Containment
24 Emergency Sump. You heard quite a bit on it today by Mike
25 and Randy. This gives another perspective of the sump and

1 where it's located in the containment, and what we're going
2 to do to significantly expand our sump.

3 The normal sump, as shown up in the upper righthand
4 corner of the picture, there is a sump access area. Up in
5 that corner is where the existing sump pit is that Randy
6 pointed out in the photo graph. That's where the
7 construction is ongoing.

8 Now we're go work from that sump and we're going
9 to go down the stairwell. You can see there is a stairwell
10 tunnel that leads down to under the reactor vessel, and you
11 can see the bottom of the reactor vessel there on the left
12 hand portion of this three-dimensional figure.

13 Down along that stairwell is where the incore nozzle
14 guide tubes run. And they run down there. There is 52 of
15 them; very small diameter steel tubes that run down through
16 the tunnel, along the side of it and up into the bottom of
17 the reactor vessel. And we'll see those in more detail
18 just following this.

19 But there is room down there that we can use to
20 expand our containment sump strainer screen. And you can
21 see the lower strainer pointed out in the, in the picture
22 here as it runs down the stairwell.

23 Right now, we have 50 squares feet of screen in the
24 original design. That was removed. And we're moving
25 towards expanding that up to 1200 square feet of a

1 perforated plate strainer structure. And most of what you
2 see here in terms of the strainer itself, all the piping
3 and manifold boxing that's shown will be perforated, so it
4 all contributes to straining out any sort of debris that
5 may be generated and providing plenty of flow to the
6 emergency core cooling system suction.

7 So, we're going to place it as shown here. We
8 believe this is a model for the industry. And, that's what
9 we presented to the participants at the NRC. The desired
10 outcome of that meeting was to solicit any comments or
11 questions from the Nuclear Regulatory Commission staff,
12 the Technical Reviewer staff. And they were very curious
13 about this development. We intend to resolve the generic
14 safety issue 191, as it's referred to in the industry,
15 relative to containment emergency sump functionality.

16 It's an issue that's the industry has been grappling
17 with over several of the last years. It's been resolved at
18 the BWR's and we resolved it pretty effectively over at the
19 Perry Plant several years ago. And we brought many of the
20 same people that participated in that resolution to bear on
21 this resolution at Davis-Besse Plant.

22 So, we look at this as a model for the industry.
23 And our intent is to provide a demonstration for some of
24 our peer utilities to come and see how to effectively
25 resolve this issue.

1 In the next slide, we show the reactor vessel bottom
2 nozzles. On the left you can see a photograph of the
3 bottom head of the vessel and where I talk about the incore
4 guide tubes leading up into the bottom of the vessel. Here
5 we can see them coming up into the bottom. There is a
6 metallic insulation layer that's been removed, so that we
7 can see them.

8 During normal plant operation, the reactor is
9 enclosed in metallic ~~installation~~ insulation, as you can see on the
10 righthand depiction here, that keeps the heat. The reactor
11 vessel is 500 degrees in temperature when we are in full
12 power operation. And to keep the concrete around it cool
13 and minimize the heat loads in containment, it's all
14 encapsulated.

15 We stripped off all that insulation as part of our
16 discovery proceedings in containment to do a full
17 inspection of the bottom head. We've conducted what we
18 believe is the most thorough bare metal inspection of the
19 bottom reactor head that's been done to-date in the
20 industry. And we inspected thoroughly with a crawler
21 remote robot, so we could look very closely and not expose
22 our staff to undue radiation. And we went and we cleaned
23 very thoroughly the head.

24 There you can see its post clean state. And once we
25 go up to do our pressure test, pressure and temperature

1 test, at full pressure and temperature for 7 days and come
2 back down, we'll be able to go in there, and if there is
3 any indication of leakage, it will show up by white Boron
4 residuals.

5 And, our plan is to do that test. Go in and examine
6 to see if there is any leakage. We don't believe that
7 there is any, based on all the work that's been done
8 to-date. But if there is, we have a repair concept that,
9 that is ready to go; repair that's been done on pressurizer
10 vessels very similar to these type of penetrations. So,
11 that's in the wings and ready to go should we need it.

12 One of the other firsts that we're doing, as far as
13 this project, first U.S. installation of what we call our
14 Flus Monitoring System. This is a moisture monitoring
15 system that was developed in Europe and used in reactor
16 systems over there to monitor for any sort of leakage.
17 It's picked up as a change of moisture content in the air.

18 And we'll install the small sampling tubes within
19 the metallic insulation package. And you can see that,
20 it's shown in the righthand side here in this figure.
21 Small tubes laid out in insulation. They will be
22 continuously sampling the air to determine if there is any
23 change in moisture. If there is, we'll then take the
24 actions that will be prescribed in the operating procedures
25 for this monitoring system.

1 So, this is another first that we'll be installing.
2 When we spoke to you last month at the public meeting, we
3 weren't sure at that time whether we would be able to get
4 this installed by the end of this outage. Now, based on
5 the work we've done with Framatone, our supplier, our
6 reactor supplier and the supplier of this monitoring
7 system, we believe we can get this installed prior to the
8 end of this outage. And, we're working towards that goal.

9 MR. GROBE: Jim, before you
10 go to your next slide. I wanted to make sure I was
11 speaking into the microphone, and for a moment I forgot my
12 question. It will come back.

13 MR. POWERS: I'm sure it's a
14 good one.

15 MR. GROBE: But everybody can
16 hear that I forgot my question.

17 MR. POWERS: I'll move on to
18 System Health, and I'm sure it will come to you.

19 MS. LIPA: I did have a
20 question before you go on, Jim. When we had the meeting on
21 November 26th, I think we talked at that meeting about some
22 tape that was on some of these lower nozzles. What did you
23 find about those?

24 MR. POWERS: What we found,
25 there was a few more pieces of evidence we wanted to take

1 to see if they could help us characterize the Boron stains
2 that were found at the bottom of the vessel. There were a
3 couple pieces of tape that were remaining, apparently from
4 original construction completion. And the tape was
5 enclosed in the portion of tubing that was hidden by the
6 insulation panels. And those are typically not removed,
7 those insulation panels. So, it really hadn't been found
8 until we did this complete removal and thorough cleaning
9 and inspection.

10 So, we took the tape samples off and sent them to
11 the lab. We also took some scrapings of the paint that was
12 on the side of the vessel, and sent that off to see if that
13 would help us characterize the results of the lab analysis,
14 the chemical analysis of the Boron samples we had taken.

15 And, in fact, they did the analysis. It didn't
16 really help us. It didn't clarify anything further,
17 Christine, in terms of knowing where the Boron, you know
18 confidently stating where the Boron originated from.

19 We believe it came from above, from washdowns of the
20 Boron that was on the head, and also from leakage through
21 our temporary refueling cavity seal.

22 One of the reasons Lew talks about so emphatically
23 enthusiastically about putting this cavity seal in, is that
24 it's going to prevent leakage and prevent these types of
25 questions from occurring. And many of the stains we saw on

1 the side of the vessel were Boron deposits likely from that
2 type of leakage source.

3 The cavity seal, for your information, will go up at
4 the top of the sketch, where you see the concrete; there is
5 a gap between the concrete and reactor vessel at the top
6 level there. That's the flange where the head comes off
7 the vessel during refueling. And, then you take the head
8 of the vessel off, then you put a seal plate around that
9 gap. That seals the cavity, the reactor annulus cavity.
10 Then you can flood up with water in a refueling canal and
11 pull your fuel out of the vessel and handle it for
12 refueling.

13 So, that's an important function; and once we put in
14 a permanent seal, then we'll have a high integrity water
15 tight barrier there, and we don't expect to have any more
16 leakage questions.

17 MR. GROBE: Jim, were there
18 any chlorides concerns that arose from discovery of this
19 tape?

20 MR. POWERS: No, there wasn't,
21 none that was reported, Jack.

22 MR. GROBE: Interesting.

23 I remembered my question earlier. I think you've
24 answered it to some extent, but you indicated a belief that
25 the bottom head penetrations are not cracked and not

1 leaking. Could you go into some detail on the basis for
2 that belief?

3 MR. POWERS: Well, the basis
4 really is that if you look at the flow trails, as we refer
5 to them, that came down the side of the vessel, there was
6 two different flow trails; one was a reddish colored, rust
7 colored flow trail on the one side of the vessel and the
8 other one was a white colored flow trail.

9 The reddish colored flow trail corresponded to a
10 location where the deconers, technical deconers staff at
11 the station had reported that when they were cleaning the
12 head, that some of the, some of the deposit had washed down
13 the side of the vessel, over the flange and down the side
14 of the vessel before they put in their cavity seal as part
15 of the initial stages of refueling when they were cleaning
16 the bolts to undo the reactor head bolts.

17 And the other trail came down from what looks like
18 on the other side of the vessel what would potentially
19 either be from the reactor cavity seal leakage, and we also
20 found as part of our inspections of this outage that there
21 is a couple of pressure detection lines that are associated
22 with the head and they're used to detect the integrity of O
23 ring seals. And we found that those had been cracked at
24 some time in the past.

25 So, when the, when the refueling canal is filled

1 with water, they may have been drippings and some leakage
2 as well. And so, we believe that there is evidence that
3 these flow trails came from those sources.

4 Now, the chemical analysis that we did showed higher
5 levels of lithium and Boron in some of the nozzle
6 locations, which is interesting there is a higher
7 concentration of Boron and lithium, but the interesting
8 thing was that there is no constituents, activation product
9 constituents from reactor coolant that you would expect to
10 see if we had an actual leak from inside the vessel.

11 So, there was some contradictory information there.
12 Although it was, it was interesting that some of these
13 nozzles at higher levels of Boron, it didn't show
14 activation products that we would have expected had it been
15 reactor coolant leakage.

16 And, when you look at the size of the samples that
17 were able to be taken, how they were taken, you know, the
18 amount of material that the chemists had to work with for
19 their analysis and how it may have been, it may have been
20 affected by, for example, the paint that was on the side of
21 the vessel; that's one of the reasons we sampled it;
22 Scotch Bright pads that were used to remove, scrape off the
23 sample, the very small amounts we were able to obtain, led
24 to questions on whether, you know, the quality of the
25 samples, the conclusiveness of the chemical analysis.

1 MR. GROBE: Have there been
2 any observed bottom head nozzle cracking in other plants in
3 the United States or in Europe?

4 MR. POWERS: No, not so far.
5 The French plants have surveilled, I think it's 17 plants
6 have been surveilled since 1993. And, although their
7 bottom nozzles are a bit different than ours, they still
8 have the similar type of pressure boundary weld associated
9 with them. And they still have temperatures in the range
10 of the temperatures that we have.

11 These nozzles have been believed for a long time to
12 be less susceptible to cracking than many other nozzles in
13 higher temperature portions of the Reactor Coolant System.
14 The French have never seen any cracks. Domestic plants
15 have also done some inspections in recent outages looking
16 for any evidence of leakage from these nozzles and have
17 reported none observed.

18 So, no, there is no evidence thus far of cracked
19 nozzles.

20 MR. GROBE: One more question
21 before we get away from the bottom head. Did you observe
22 any apparent contaminants on penetrations that weren't part
23 of the flow path that appeared to be coming down the side
24 of the vessel?

25 MR. POWERS: I believe every

1 one of the nozzles that we sampled was, was engaged or
2 involved in one of the flow paths. And we picked the
3 samples, the nozzles, there were twelve of them, based on,
4 largely on the appearance and, you know, tracking attention
5 of an area that should be sampled to see if there was any
6 conclusive evidence that would be available from a chemical
7 sample.

8 And, Bob, was that the case?

9 MR. SCHRAUDER: Jack, I don't
10 have a microphone, but there were some nozzles that had
11 deposits on them that were not evidently in a flow path.

12 MR. GROBE: Okay.

13 MR. SCHRAUDER: We did take
14 samples from those also.

15 MR. GROBE: Okay,
16 interesting.

17 MR. POWERS: Thanks, Bob.

18 Lew was asking me to talk about susceptibility.
19 This whole issues revolves around what's called primary
20 water stress corrosion cracking. That's what started the
21 issue on the head. That's been found in the industry that
22 the alloy was referred to as Alloy 600 metal that's used
23 for these nozzles is susceptible to cracking, given the
24 right set of circumstances, and it's related to chemistry
25 and stresses that are in the material, and temperature is

1 one of the major factors.

2 And so, that's why we look pretty carefully when we
3 talk about susceptibility ranking and go through the
4 reactor system. The bottom head operates at a lower
5 temperature than the top of the reactor. The bottom head
6 operates at about 566 degrees; and the top head at our
7 plant operates about 604 degrees, for example.

8 The pressurizer also operates at a relatively high
9 temperature. And we took some, did some NDE on one of the
10 lines coming out of our pressurizer, a vent line, to see
11 whether it had showed any signs of potential cracking, and
12 it did not, as a matter of fact.

13 And, those are some of the reasons why we believe
14 these lower heads penetrations are not currently affected.

15 MR. GROBE: Okay, thank you.

16 MR. POWERS: Okay. Let me go
17 on to the System Health Assurance Plan update.

18 We completed our discovery for the initial scope of
19 the review of our systems. We've been talking about this
20 in past public meetings. This morning in my office, I had
21 all of the reports completed by the engineers, reviewed by
22 our various reviewers, management reviewers, oversight
23 reviewers. And, we're prepared to be delivered to Lew
24 Myers for his sign-out as completion for inspection, and
25 they're all in his office now for his review and final

1 sign-out.

2 This really constitutes a milestone for us,
3 although, all along we've been identifying issues as we
4 found them within our Corrective Action Program. Finishing
5 these reports really turns a corner for us in terms of
6 completing a major portion of discovery looking through the
7 health of our systems.

8 What we found as a result of all the reviews that
9 have been done is there is a number of issues, particularly
10 in the design calculation area, that we're going to be
11 following up on. Corrective action documents have been
12 written, based on potential issues. We need to determine
13 the validity of the issues, the questions that are asked.

14 And we know that there are some good issues here for
15 us to tackle. I have listed a few of them out here that
16 we're currently working on. Instrument tolerances in
17 calculations, for example. We have instrument set point
18 drift and calibration accuracies, for example.
19 Instrumentation accuracy, built into calculations that form
20 the bases for our tech spec trip set point, set points.

21 But for other set points, we have not incorporated
22 this level of detail similar to other older plants the
23 vintage of Davis-Besse. And, we're evaluating that now in
24 terms of what, the significance of that to our other
25 systems, and that's ongoing.

1 The emergency diesel generator loading sequence is
2 being studied. We need to prepare a detailed calculation
3 on the diesel generator performance as it's loaded with
4 step loads. You know, in a case where we lose our offsite
5 power from the gridlines, our emergency diesel generators
6 automatically start and automatically load in the plant to
7 drive our safety systems.

8 Those safety systems have some rather large motors,
9 rather large loads. And, how those sequence onto the
10 diesel generator is something the engineers study to make
11 sure that the frequency output of the diesel generator is
12 maintained during that loading transient and that the
13 equipment functions acceptably through it.

14 This type of analysis has been done at many other
15 nuclear plants with engines just like ours. So, the
16 engineers now are comparing how our plant compares
17 design-wise to them. It's a very common diesel generator
18 that's in use. And the diesels have been tested a number
19 of times and the analysis has been done at many other
20 sites, so we're following through to prepare that analysis
21 for the Davis-Besse site.

22 Service water temperature, we talked about that a
23 lot before. There had been work in the past to address the
24 rising lake temperature in this region, and their affect on
25 the plant. As part of that work, we lost some margin on

1 our systems. As the temperature goes up from the lake, the
2 heat exchangers don't cool quite as well. So, in
3 addressing that issue, we did not address it in a manner
4 that we would preserve margins, and that's what we're going
5 to go about now. We're doing a lot of reanalysis of the
6 capability of the system with some more recent tools,
7 analytical tools, to demonstrate we have margins we need
8 for safe operation.

9 The bullet here I have talks about high pressure
10 injection minimum flow, was an issue that came up as part
11 of the NRC inspection portion of the external oversight of
12 our system reviews. This issue concerns very, very small
13 leak in the reactor system and high pressure injection
14 system responding to it and injecting. In the very long
15 term, about 23 hours after that type of situation would
16 develop.

17 If we would empty out our reserve water tank, and
18 switched over our suction to the emergency sump at that
19 point, there is a prescribed action to close the min flow
20 valve, the minimum flow valve that goes back to our reserve
21 water tank. And, there is a question on the table in terms
22 of whether the high pressure injection pump is protected
23 adequately for minimum flow.

24 And, for those of you that aren't pump engineers,
25 the pumps need to have a certain amount of small flow going

1 through them, so that the pump doesn't vibrate and so the
2 water doesn't ultimately overheat. Just from the energy of
3 the pump turning will heat the water to where it boils and
4 forms voids and that can damage a pump.

5 So, in the industry we try to ensure the minimum
6 flow protection is provided. So, that's a comment we
7 received and we're working on that issue now.

8 Then the last bullet is an issue that came up in our
9 service water review on heat exchanger code relief
10 protection. These are relief valves. Normally heat
11 exchanger vessels designed for the ASME Code are provided
12 with what's called code thermal overpressure protection.
13 Particularly, if it's, for example, a fired boiler, where
14 the pressure increases, just as it would on your stove on a
15 teapot, there is a way for the steam, the pressure to get
16 out; there's small relief valves that do that.

17 In this case, our heat exchangers are not fired,
18 it's not a large source of heat, so there is a question of
19 whether they need to have code relief protection;
20 something that many of them haven't had since the original
21 construction of the plant.

22 So, we're wrestling some issues here that are both
23 new in the case of service water temperature, for example,
24 and very old in the case of high pressure injection or heat
25 exchanger code relief protection.

1 MR. GROBE: Jim, I just
2 thought of something on that last issue. Are you
3 interfacing with the state code pressure injection board on
4 that last issue?

5 MR POWERS: Have we
6 communicated with them? We haven't drawn them into
7 discussion yet, Jack. We've been looking at the licensing
8 basis and the code itself, but I think that's, that's a
9 good point of something we do need to engage them, because
10 they're very active at the site and they're one of our
11 additional oversight resource that we can use to bounce
12 this off of.

13 MS. LIPA: Jim, where do you
14 stand in your review of these issues for reportability,
15 past operability?

16 MR. POWERS: Well, all the CRs
17 that go through the process, as I mentioned earlier, are
18 checked off in terms of whether they involve past
19 reportability. And there are two of them that you asked me
20 to talk about; one was the containment air coolers and
21 emergency sump. We had talked about those before the
22 break.

23 And the, the containment air coolers, we're in the
24 process of submitting a voluntary LER reporting the
25 condition of the containment air coolers that was found in

1 containment subsequent to the Boron effects on them, but
2 we've looked at the structural capabilities of those
3 containment air coolers, both the piping to them and the
4 coils, and the coil supports and the registers and such,
5 and believe that the structural integrity is good.

6 We have not taken the analysis through all the
7 thermal capability of them. There was some Boron fouling
8 of them when we took them apart, dismantled them for
9 replacement, we found that there was some fouling on the
10 water side, sludge and so forth in there. And so there is
11 additional issues we were assessing on the performance of
12 the CACs. So, we're going to provide an LER reporting of
13 that situation to you. That's in preparation now.

14 We're also providing a supplement to the report that
15 we made on the containment emergency sump. We had reported
16 the potential inoperability of that sump, based on the
17 qualified coatings in containment, unqualified coatings
18 that we found.

19 And, also based on an opening that we found in the
20 screenage of the sump, a relatively small opening, but
21 bigger than the quarter inch design opening. And we had
22 reported that to you in a relatively brief abstract last
23 month, and based on these facts, we're providing an
24 expanded response that gives much more detail on what we're
25 doing and what we found.

1 MS. LIPA: What about these
2 five bullets that you have here; are those still under
3 review?

4 MR. POWERS: Yes, still under
5 review. They're potential issues, and as we review them to
6 determine, to determine the significance of them, then they
7 will be going through reportability assessment. Christine,
8 if they're reportable, we'll report them.

9 And so, another point that goes with our, our
10 completion of the discovery for System Health is that we're
11 moving into our extended condition reviews. We found some
12 issues here on the Systems Review. We want to make sure
13 that the balance of our, of our important risk significant
14 systems are healthy as well. So, from an extended
15 condition standpoint, we're moving off as part of our
16 implementation plan, moving forward into building block to
17 go through additional systems, and we'll be communicating
18 that list of systems to you.

19 That's moving forward as well. There is a total of
20 15 of our important systems that we'll be evaluating to
21 make sure they don't have similar issues in the design
22 calculation area, as well as several other topical
23 engineering design areas. Of those 15, 7 are already done,
24 so there is 8 additional systems that we're going to be
25 working on over approximately the next month and a half to

1 determine their safety function capability.

2 MR. GROBE: Jim, before you
3 go on, you and I had a rather lengthy meeting this morning
4 discussing these issues. I just want to make sure I
5 understand a couple of things.

6 You've identified issues regarding calculations as
7 well as a number of specific technical areas, like high
8 energy line break analysis, and seismic capability analysis
9 and several others, where you believe that you don't yet
10 have the extent of the problem identified. And if I
11 understand what you just said correctly, you were going to
12 broaden the scope of your review of the systems to address
13 some of those issues and further understand what kind of
14 problems might exist in the plant; and that will take
15 roughly a month and a half, is that what you said?

16 MR. POWERS: Right. We expect
17 in the range of approximately six weeks to do the initial
18 cut through the systems.

19 MR. GROBE: Okay. And, a
20 number of these deficiencies you've identified, either
21 you've concluded are operability issues or could be system
22 operability issues; and these are technical specification
23 systems that are required to be operable during plant
24 operation.

25 MR. POWERS: What we're looking

1 at for the starters here, Jack, is the systems that
2 contribute greater than one percent of risk significance to
3 our core damage frequency value. And the 15 systems that
4 we have selected compose 99 percent of the value of our
5 core damage frequency code.

6 So, from a probabilistic safety assessment
7 perspective, we have, we've got the vast majority of the
8 important systems composed in a set of 15 important systems
9 at the plant. They also compose 98 percent of our large
10 early release frequency value. So, these are truly systems
11 that are important to safety at the plant.

12 MR. GROBE: I understand
13 that. The technical specifications however require all
14 systems to be operable; and, if you wanted to choose to
15 modify your technical specifications and remove some of the
16 specifications for other systems that are less risk
17 significant, I suppose you could go down that avenue.

18 But we talked about meeting in the regional office
19 later this month. I think we tentatively set the 23rd, for
20 you to go through in much more detail the logic path that
21 you've developed, where you've got some engineering issues
22 that you've identified that could effect the operability of
23 the systems, and how you chose the extent of the additional
24 reviews you're going to be, and how you are justifying the
25 need to not review all tech spec, technical specification

1 systems.

2 So, this is a very important area, and I'm looking
3 forward to that dialogue. And, hopefully, by the time we
4 meet on the 23rd, if that's the final date, I think that's
5 firming up, you can have a much more clear understanding of
6 the operability impacts of these design deficiencies, and
7 we can get into a little more detail on that subject.

8 MR. POWERS: Okay.

9 MR. MYERS: Jack, I think it's
10 fair to say too --

11 MR. GROBE: You need a
12 microphone, Lew.

13 MR. MYERS: I think it's fair
14 to say, you know, a lot of these issues are just calcs
15 that 25 years ago we may not have or may not completely
16 understand, so we don't know that any of them really affect
17 operability this time. What we wind up doing is generate a
18 CR on any issues we find as we do these slices and then
19 doing an operability assessment of each one of those, you
20 know, as we find the issue; similar to what we do at other
21 stations.

22 Just because you may not have a calc; when you get
23 through you may have a calc and find out everything is
24 okay. So, that's where we're at.

25 MR. GROBE: Appreciate your

1 comments, Lew. I wanted to make sure it's not, I'm not
2 being misunderstood.

3 I'm not suggesting that you're required to do
4 reviews of all of your systems. What's important to me is
5 to understand which of these engineering deficiencies had a
6 more safety significant impact on system operation, and if
7 there are engineering areas where you had a significant
8 impact on safety, what is your justification for the scope
9 you have chosen, and making sure that we clearly understand
10 that the standard that we need to come to, to approach
11 restart, is a reasonable assurance that the systems are
12 going to be performing correctly. And I want to start
13 developing that foundation for an understanding of how you
14 came to a conclusion that this plan will give you
15 reasonable assurance, and we need to understand that before
16 we can make any sort of a recommendation to our management
17 on going forward.

18 MR. MYERS: I understand
19 that. Thank you.

20 MR. GROBE: Could we go back
21 to slide 18 a bit? Actually 17.

22 I think, Mike, this was part of your presentation.
23 I wanted to get into a little more detail on the approach
24 to Mode 3; and particularly in the area of system
25 function. But first, I would like to talk, the third

1 bullet down on this slide has to do with the emergency sump
2 strainer. What is your expectation for completion of that
3 modification?

4 MR. POWERS: Mike, go ahead.

5 MR. STEVENS: Okay, the
6 emergency sump strainer modification was broken into two
7 pieces. We expect that the top piece will be installed to
8 support moving fuel. That's what we're working towards.

9 MR. GROBE: Okay. So, I
10 understand now. So, you're planning on doing the
11 modification which will increase the top strainer from
12 approximately 50 square feet, I think you said the number
13 earlier today was 300 square feet. That part of the
14 modification will be done, but the bottom section of the
15 strainer that goes down the stairs and around the corner,
16 that part of the modification won't be done at this point
17 in time?

18 MR. STEVENS: That's correct.

19 MR. THOMAS: So, do you stop
20 doing the bore through the sump walls going down into the
21 undervessel?

22 MR. STEVENS: No, we haven't.

23 MR. GROBE: Could you go into
24 a little bit more detail on how you're going to sequence
25 these things?

1 MR. STEVENS: I'm not sure I
2 understand the question. We're going, the tech spec and
3 requirement for moving fuel is to have the emergency sump.
4 And we have a safe shutdown procedure that goes through
5 contingency plans and alternatives for having the flow path
6 through the, what is storage tank, and then back into the
7 vessel.

8 We intend to install the top piece. We're not going
9 to leave the hole there. We have to do something with
10 that. We're working through those contingencies.

11 Part of what is prohibiting us from moving forward
12 and finishing it will be the dose rates in the area and
13 we'll have to sequence that so that we can get in and back
14 out without getting into lock high rad areas.

15 MR. GROBE: Let me restate
16 that to make sure. I think I understand, I think I
17 understand what you said. You're going to continue with
18 the modification work for the bottom section of the
19 strainer, but at the point in time that the plant is ready
20 to proceed with fuel load, you'll somehow blank off those
21 strainer sections such that the sump has an integrity.

22 MR. STEVENS: That's correct.

23 MR. GROBE: Is there going to
24 be some sort of post maintenance or modification test that
25 will be done at that point to ensure the integrity of the

1 sump? It's kind of an undefined situation.

2 MR. STEVENS: That's why we
3 broke it into two pieces, so we could better define it. We
4 will do the operability reviews required to partially close
5 that portion of the modification, and all in accordance
6 with. Do I understand the question?

7 MR. GROBE: Did that answer
8 your question, Scott?

9 MR. THOMAS: Yes.

10 MR. GROBE: Okay.

11 MR. MYERS: I think one thing
12 that is important here, we have our plans right now to stop
13 somewhere along the way, but what we have to do is, and
14 blank it out; but what we're going to have to do is we have
15 a condition report on that. We'll have to do an
16 engineering evaluation. Once again, the people that
17 declare operability is our shift supervisors. We all need
18 to understand that very clearly.

19 So, what we have to do is go over to our shift
20 supervisors and convince our shift supervisors that this
21 sump for the conditions we're at, that the straining module
22 will meet its intended function, you know, and that being
23 the support system for the sump. The shift supervisors,
24 shift managers will make that determination.

25 MR. GROBE: Okay, and that's

1 where it should be. I appreciate that.

2 I don't have your valve numbers memorized, but I
3 think a couple things came together for me as you were
4 giving your presentation, Jim.

5 This RC 46 and RC 47 drain piping cracking, those
6 are the valves that are on the lines that come from between
7 the O rings on the reactor head. Okay. And the crack in
8 the drain piping is a potential source of material that
9 might have flowed down the side of the reactor vessel?

10 MR. POWERS: That's right,
11 because it's down below the cavity seal.

12 MR. GROBE: Okay. Thank you.

13 Could we go to the next slide?

14 MR. MYERS: The answer to that
15 question was yes, for people who couldn't hear in the
16 back.

17 MR. GROBE: Right, you need
18 to use the microphone, Jim.

19 The next slide, on slide 18, you indicate core
20 reload in mid January. Are some of the systems that you're
21 going to be reviewing for extended condition design issues,
22 systems that are required to be operable for core reload?

23 MR. MYERS: Yes.

24 MR. GROBE: Okay. So, it
25 seems like there is kind of a convergence of activities

1 here. About six weeks of design reviews, which will
2 discover additional problems likely, and so, that's a
3 tentative date based on knowledge of what deficiencies
4 might be identified in these continuing design reviews?

5 MR. MYERS: I don't want to
6 peek for our operators, but what we know right now, if you
7 go through the operational check sheets, we have a
8 requirement that containment sump have some degree of
9 operability to, to support core reload. That's not a tech
10 spec out, that's an administrative item we have in our
11 house.

12 We will look at that item based on having the
13 containment, the permanent cavity seal in place and make a
14 determination what we need to have in effect for core
15 reload. Then the next step is, you know, putting the head
16 on, going to Mode 5 and then Mode 4, and so on. And each
17 one of those plateaus requires different conditions.

18 Here for the ECCS system to be a systems, that's
19 where you get into the core of mitigation system, the ECCS
20 systems, Emergency Core Cooling Systems; that's usually in
21 Mode 4 runs with them, and I think that's 280 degrees
22 here.

23 So, at that point, you know, we'll have to have a
24 large portion of our systems operable. And, at that point,
25 right now we're looking at mid February there. So, it's

1 not as convergent as one might think.

2 MR. GROBE: Okay, I see. So,
3 Mode 3, you're looking at, and that's the next slide, slide
4 19, your target there is mid February?

5 MR. MYERS: That's correct.

6 MR. GROBE: Okay. And then
7 after, at the time you get to Mode 3 is when you're going
8 to be doing that reactor cooling system normal operating
9 temperature and pressure test.

10 MR. MYERS: That's right.

11 MR. GROBE: I understand.
12 Okay. I appreciate you bearing with me. A number of these
13 issues came together as you went through that
14 presentation.

15 I apologize. There is one more thing. Bob
16 Schrauder, you indicated that you had some contaminants on
17 bottom head penetrations that were not associated clearly
18 or easily visually associated with leakage coming down the
19 side of the vessel.

20 Did you have any digital photographs that were
21 generated of those penetrations prior to the cleaning? I
22 was down there, but it's all been cleaned up.

23 MR. SCHRAUDER: I would have to go
24 back and check the database of the pictures we have. Some
25 pictures --

1 MR. GROBE: Yeah, if you have
2 digital pictures of those penetrations, I would be
3 interested in seeing them if you could email them to me.

4 MR. SCHRAUDER: Okay.

5 MR. POWERS: Okay, next slide.

6 Just wanted to briefly talk about one of the
7 engineering focuses then on restart. Mike talked about
8 Mode 6 at the time we took out this number of our CRs, we
9 were at 189 Mode 6 condition reports that provide
10 restraints going to Mode 6. So, there are issues that need
11 to be dealt with. Those are actively being worked on.

12 We're prioritizing work at the site by mode change.
13 So, Mode 6 being the first one. We're focusing a lot of
14 attention on bearing down. And then the ongoing
15 modifications that support fuel reload and containment
16 health. I listed a few of them here. Although, there is a
17 lot of work going on to improve the plant, as I'm sure a
18 lot of the people there would tell you all.

19 So, that's it for the engineering update. Unless
20 there is any questions, I'll turn it over to Neil
21 Morrison.

22

23 MR. MORRISON: Thanks a lot.

24 For those of you who don't know me, my name is Neil
25 Morrison and I'm the Owner of the Program Compliance Plan

1 Building Block. As Lew mentioned, I am on loan from Beaver
2 Valley.

3 Today I'm going to provide you a brief update on the
4 current status of my building block and also some future
5 actions that FENOC is going to take in the area of program
6 reviews.

7 As many of you -- well, as the board members may
8 know that the Program Compliance Plan Building Block
9 consists of two parts. The first part, which we would
10 characterize as a Phase 1 Program Review, is for programs
11 that were not associated with the degradation of the
12 reactor vessel head. And we do a program review that is
13 similar to a coached self-assessment that gets some
14 independent oversight actions on the back end of it.

15 The second review that we do is a Systematic
16 Detailed Review; and that's primarily focused on programs
17 that were associated in some manner with the degradation of
18 the reactor vessel head or programs that management has
19 asked to have a detailed review on.

20 Currently, we have completed 65 Phase 1 Program
21 Reviews, which is our intended target population. Of those
22 65, 19 are complete, paperwork is all signed off,
23 approved. And the remaining 46, we're working through to
24 close those out.

25 For Phase 2, which is our Systematic Detailed

1 Review, we had six programs that we intended to complete
2 that are on the Restart Checklist. Four of those six are
3 complete. You'll see them listed there; the Boric Acid
4 Corrosion Control Program, the Corrective Action Program,
5 the In-Service Inspection Program and the Operating
6 Experience Program.

7 In addition to that, we had a pilot that we had
8 performed prior to starting this activity, and it was
9 Probabilistic Safety Assessment Program. And that report
10 is in draft status. We will complete that action in
11 January.

12 MR. HOPKINS: When you say
13 complete; what does that really mean? I'm interested in
14 how many actions you may still have coming out of it or
15 what?

16 MR. MORRISON: My Building Block
17 is a primary focus type of building block. We will go in
18 and evaluate a program and document concerns or issues that
19 we may have in a program using a Corrective Action Process;
20 and out of that, then the program owners take those
21 Condition Reports and resolve those issues and they develop
22 an Implementation Action Plan to pull those issues together
23 and manage them and resolve them and put the programs in a
24 condition to support the restart of the facility.

25 MR. HOPKINS: Okay.

1 MR. DEAN: Neil, do you
2 identify any of those actions as, in a manner of mode
3 restraints as we've heard discussed with other?

4 MR. MORRISON: My building block
5 does not do that. We provided initial characterization
6 whether we think the issue might be considered as a
7 restart, but then the Restart Station Review Board would
8 take that condition report and confirm that evaluation one
9 way or another.

10 Those issues that may affect operability of a
11 component would get run through the control room and they
12 would assign a mode restraint if appropriate.

13 MR. DEAN: You talking
14 restart, you're talking overall recovery of the plant, not
15 just the core?

16 MR. MORRISON: That's correct.

17 So, currently we have two additional programs that
18 are under review right now at this time and they're near
19 completion. We expect to complete them before Christmas.
20 That's the Modification Program and Radiation Protection
21 Program.

22 In addition to that, under my Building Block, I know
23 this is one that I think the NRC has a lot of interest in,
24 we are developing a Reactor Coolant System Integrated
25 Leakage Program, which does include unidentified leakage.

1 And, while the program is under development, really aren't
2 in a position at this time to go into great detail. I can
3 give you a couple of features we have under consideration
4 for that program.

5 One of the unique things that we're looking at doing
6 is, when a plant heats up into Mode 3, which is normal
7 operating temperature and pressure, but no nuclear heat, as
8 mentioned earlier, we intend to do a baseline plant
9 leakage. What's good about that is, you'll do this leakage
10 calculation to determine what your baseline value is. In
11 conjunction with that, you do a VT-2 walkdown, which is a
12 normal activity coming out of refueling, which would
13 confirm that you have no pressure boundary leakage.

14 Another thing we're looking at doing later on this,
15 in 2003, we're going to heating the plant up and we'll be
16 sitting in normal operating temperature and pressure for
17 approximately 7 days. And at that time, this program that
18 we have under development, we're going to pilot that.
19 We're going to do some calculations at that time, and we're
20 going to instill through some normal piping systems a known
21 inventory loss in the cooling system and see how sensitive
22 our methodology is to that, looking at small numbers. Make
23 sure that we will be able to identify leakage at low
24 numbers.

25 MS. LIPA: Question that I

1 have is, I guess I thought that one of Phase 2 Programs

2 Reviews was the QA Program. Did that change?

3 MR. MORRISON: The QA Program,
4 there is a detailed review going on and that's not really
5 being managed under my Building Block. That's being done
6 independent of my Building Block. And that is in fact
7 ongoing right now.

8 MS. LIPA: What Building
9 Block is that associated with?

10 MR. MORRISON: I don't think it's
11 associated with any specific Building Block. It's being
12 done through QA themselves.

13 MR. MYERS: Management/Human
14 Performance.

15 MR. MORRISON: I stand
16 corrected.

17 MS. LIPA: Trying to keep it
18 all straight. Thank you.

19 MR. GROBE: Neil, before you
20 go on, Jim had talked earlier about the installation of the
21 Flus Monitoring System. And, I have two questions. One
22 concerns experience on installation testing, preoperational
23 testing of such a system, and calibration of such a system,
24 and whether you're going to use this time frame, whether
25 this Flus System will be in operation at the time of this

1 first NOP/NOT test, such that you can baseline that and
2 perform the preoperational testing at that time?

3 MR. POWERS: Our thoughts on
4 that, Jack, is that we know that the insulation package has
5 to be tight in order for that Flus Monitor to work well.
6 And, our initial concept is, we would want to provide some
7 sort of test to see if we could detect very small amounts
8 of moisture with the Flus, but it's not linked at this
9 point into the Integrated Leak Testing Program tests that
10 Neil is describing here, which would be more, the Flus is
11 very, it's localized to the lower reactor vessel area,
12 where what Neil is talking about, we're really surveilling
13 the entire Reactor Coolant System and we need to be able to
14 detect leakage in steam generator cubicles, for example,
15 and pressurized cubicles, beyond just the bottom head.

16 MR. GROBE: Is the Flus
17 System going to be part of the RCS Integrated Leakage
18 Program?

19 MR. MORRISON: Yes, it will be.

20 MR. GROBE: Okay.

21 MR. MORRISON: Overall, the
22 Integrated Leakage Program, we are trying, we are in the
23 process of putting together, we want it to be a model for
24 the industry, something that they can take, you know, after
25 we got it in place, and pattern their own programs after

1 it.

2 MR. GROBE: One other
3 question is, is there, where these Flus systems are used, I
4 have no experience with these systems at all; are you able
5 to use those on top head installations also?

6 MR. MORRISON: Yes, we can use
7 them on top heads also.

8 MR. GROBE: But you're not
9 planning on doing that at this time?

10 MR. POWERS: Not at this time,
11 since we got essentially an unused new head installed,
12 we're not planning that at this time, Jack, we're mostly
13 focused at the bottom head region.

14 MR. MORRISON: The last thing I
15 wanted to talk about this afternoon has to do with Program
16 Reviews. I'm sorry.

17 MR. GROBE: One more question,
18 Neil, I apologize.

19 MR. MORRISON: That's quite all
20 right.

21 MR. GROBE: I'm very
22 interested in the section of your RCS Leakage Procedure
23 that deals with VT-2 Testing and Inspections. I've seen
24 quite a variety over the years of approaches to those types
25 of inspections; some are comprehensive inspections, some

1 are less effective. Is there going to be guidance in this
2 leakage procedure on VT-2 Inspection Procedures, or is that
3 in your ISI Inspection Procedures?

4 MR. MORRISON: That's an
5 interface with the ISI Program, but we will be looking at
6 that interface pretty hard and make sure that the
7 inspections are appropriate for what our goals are.

8 MR. GROBE: Good, because
9 it's a particular area of interest of mine.

10 MR. MORRISON: Okay.

11 Moving on. The Program Reviews that we've been
12 working on, we've seen a lot of benefit from those. One of
13 our intentions is, an outcome of my building block is to
14 make this an ongoing effort for Davis-Besse.

15 So, we're in the process of developing a procedure
16 that's more attuned to doing this for an operating plant,
17 and we're going to pilot that here doing program reviews.
18 And, once we've got this working well for us, our
19 intentions are to make this a FENOC-wide initiative.

20 And, to do that, we'll take this piloted program
21 procedure that we're developing right now, turn it into a
22 NOP, which for FENOC is FENOC-wide procedure. And, we will
23 initiate program reviews through the Nuclear Services
24 Department, which is based in Akron.

25 And to help support that activity, we're going to be

1 developing a list of what we characterize as Priority Plan
2 Programs across the FENOC fleet. And, we will select
3 several of these programs and evaluate them every year
4 FENOC-wide.

5 And the goal here is to look at these programs and
6 look at them on a regulatory compliance perspective, how
7 we've addressed industry guidance, interfaces and
8 hand-offs, and we want to look at the implementation and
9 verify it is being implemented successfully.

10 And, really, this whole thing all ties back to the
11 root cause effort that occurred back in March. If you
12 think back to the technical root cause effort that we had
13 at Davis-Besse, one of the things that we identified was
14 there were a number of barriers that had not provided the
15 level of protection that we had expected. Those barriers
16 were really plant programs. And, there was a population
17 had let us down.

18 So, with this FENOC-wide effort, we want to go
19 back and look at what we think are important plant
20 programs, use as process to make sure they are actually
21 providing the level of protection that we are expecting of
22 them.

23 So, unless there is some other questions, I'm going
24 to turn this over to Clark Price. I think Clark is going
25 to talk about the O350 progress.

1 MR. MYERS: We already have
2 a self-assessment process. In that self-assessment
3 process, we lay out a yearly schedule of, say, what we're
4 going to do. I would see this rolling in from a corporate
5 standpoint into a program reviews yearly to improve the
6 year before, for each side, and we'll do that across the
7 sites.

8 And for some sites, you know, like we do have one
9 boiler, boiling water reactor, we have a few pressurized
10 water reactors. So, look at it on a site specific basis.
11 So, Boron evaluation probably will not be a concern too
12 much at the boiler.

13 But what I anticipate, a yearly group of programs
14 that we would look at, and we've identified 65 programs or
15 so now. We'll pick those and make sure they're giving us
16 the performance they think, we think they should be. So,
17 that's sort of the way we see this plan now. Okay.

18 MR. PRICE: If there is no
19 other questions, I'll continue.

20 I'm Clark Price. I'm the owner of the Restart
21 Action Plan.

22 One of the things I would like to talk about today
23 is our overall progress on our 350 Restart Actions that we
24 have at Davis-Besse, and how we're accomplishing those in
25 our Return to Service Plan.

1 Starting off with that, I would like to go back to
2 our basic Building Blocks for a moment and talk about those
3 Building Blocks. There are seven Building Blocks that we
4 started off with in our Return to Service Plan, that were
5 designed to address all the areas, the causal factors that
6 we identified in our original root cause on the head
7 degradation.

8 This Building Block Plan, these Building Blocks have
9 served us very well and continue to serve us very well;
10 however, as you saw, and Christine talked about it earlier,
11 the NRC 0350 Panel developed a set of Restart Checklist
12 items that really, that is what we need to focus and
13 address for restart.

14 Next slide. So, we started off with Building
15 Blocks. Then we go to the Checklist items, and I'll be
16 talking about a chart here shortly that we've designed to
17 monitor both of those.

18 We developed a number of Davis-Besse O350 Restart
19 Actions to address each of the 0350 Panel Restart Checklist
20 Items. And, primarily those were derived from our Building
21 Block activities. Although, as you heard here today, there
22 are a few items that are outside the Building Blocks that
23 are on the Checklist.

24 We've also developed performance indicators and
25 monitoring tools also to help us monitor the progress of

1 our plans and also help to schedule the inspections with
2 the NRC. We want to make sure that we're ready for their
3 inspections when they send out the inspection teams, and we
4 continue to monitor that as we go.

5 One of the things we also did -- you can go to the
6 next slide. One of the other things we did, was in our
7 plans, we have, we took our plans and divided those into
8 basically a discovery phase and an implementation phase.
9 The Building Blocks were primarily designed to be discovery
10 phase building block items, but our overall plan not only
11 has to address the discovery phase, but also the
12 implementation of anything we find during that discovery.
13 And that's where we kind of combine all of that effort into
14 the overall restart checklist and our restart actions to
15 support that.

16 What you have in front of you right now on the
17 screen is a monitoring tool that we use both on site with
18 our senior management team and our owners of all the
19 Restart Checklist Items and we also use this as a
20 communication tool with the NRC to communicate our overall
21 progress.

22 This report is designed, the lefthand column, the
23 colored bars is our discovery phase activities. The far
24 left -- and it's very difficult to read. We tried to get
25 all of this on one page and it gets kind of small. But in