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                       UNITED STATES OF AMERICA
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                     NUCLEAR REGULATORY COMMISSION
              MEETING WITH NORTHEAST NUCLEAR ON MILLSTONE
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                            PUBLIC MEETING
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                              Nuclear Regulatory Commission
                              Commission Hearing Room
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                              11555 Rockville Pike
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                              Rockville, Maryland
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14
                              Thursday, February 19, 1998
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              The Commission met in open session, pursuant to
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      notice, at 9:30 a.m., the Honorable SHIRLEY A. JACKSON,
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     Chairman of the Commission, presiding.
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     COMMISSIONERS PRESENT:
21
              SHIRLEY A. JACKSON, Chairman of the Commission
22
               GRETA J. DICUS, Member of the Commission
23
               NILS J. DIAZ, Member of the Commission
24
               EDWARD McGAFFIGAN, JR., Member of the Commission
25
     STAFF AND PRESENTERS SEATED AT COMMISSION TABLE:
1
               MIKE MORRIS, Chairman, President and CEO,
                Northeast Utilities
               BRUCE KENYON, President and CEO, Northeast Nuclear
 4
 5
                Energy Company
               DAVE GOEBEL, Vice President, Nuclear Oversight
               MIKE BROTHERS, Vice President, Nuclear Operations
 8
               MARTIN BOWLING, Vice President, Unit 2
 9
               DAVID AMERINE, Vice President, Human Services
1.0
              BRIAN ERLER, Senior Vice President, ICAVP Project
11
                Director, Sargent & Lundy
12
              DON SCHOPFER, Vice President and Verification
                Manager, Sargent & Lundy
13
14
               DAN CURRY, Vice President, Nuclear Services,
15
                Parsons Power
16
               ERIC BLOCHER, Deputy Project Director, Parsons
17
              JOHN GRIFFIN, Deputy Team Leader, Little Harbor
18
19
                Consultants
               JOHN BECK, President, Little Harbor Consultants
20
21
               BILLIE GARDE, Consultant
22
              L. JOSEPH CALLAN, EDO
23
              DR. WILLIAM TRAVERS, Director, Special Projects
                Office, NRR
24
25
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     STAFF AND PRESENTERS SEATED AT COMMISSION TABLE:
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    [continued]
 3
              WAYNE LANNING, Deputy Director for Inspections,
                SPO, NRR
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PHILLIP McKEE, Deputy Director for Licensing and

Oversight, SPO, NRR EUGENE IMBRO, Deputy Director for ICAVP, SPO, NRR 9 1.0 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 1 PROCEEDINGS [9:30 a.m.] CHAIRMAN JACKSON: Good morning, ladies and 3 gentlemen. 4 5 The purpose of this meeting is for the Commission to be briefed on the status of activities related to the 6 7 three Millstone nuclear power reactors. The Commission will hear presentations today from 8 9 Northeast Utilities, Northeast Nuclear; contractors 10 associated with both the independent corrective verification 11 program; and employees concerns program; and the NRC staff. 12 Millstone Unit 1 has been shut down for over 27 13 months; Units 2 and 3 for approximately two years now. All three of the Millstone units were placed on the NRC's watch 14 list in January 1996. The units were recategorized as 15 category 3 plants in June 1996. This action necessitates 16 17 Commission approval for restart of each of the units. 18 This Commission meeting is the fifth quarterly meeting to assess the status of activities at the sites. 19 20 This meeting was scheduled two months after the last meeting 21 in order for the Commission to better assess the results of 22 some of the significant inspections that recently have occurred or are in process now. 23 24 In the interest of maintaining our schedule, I will keep my opening comments short. I have recently visited the Millstone site and conducted a public meeting while I was there in the evening to listen first-hand to 2 3 comments and statements and concerns of the various members of the local community and other stakeholders. I have made 5

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visited the Millstone site and conducted a public meeting while I was there in the evening to listen first-hand to comments and statements and concerns of the various members of the local community and other stakeholders. I have made available at the entrances to the meeting my comments from this public meeting on February 2nd, 1998.

The Commission is interested in status updates from all participants today to gauge how the licensee is measuring and tracking its progress, and as I stated at the last Coimmission meeting, to understand how well the site is

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13 14 functioning as a whole.

Once again, all parties should feel not only invited to but compelled to comment on questions asked of any group. But if your turn at the table has passed, I ask that you use the podium as necessary.

16 Copies of the presentation material are available 17 at the entrances to the meeting, and unless my colleagues 18 have any opening comments, Mr. Morris, please proceed. 19 MR. MORRIS: Thank you, Chairman Jackson and colleagues. Thanks for being here. It's nice for us to 20 21 come back and give you this update. We are here to 22 represent the company. We have with us members of our board of trustees as well as the chair of our nuclear committee, 2.3 24 oversight group, and we are happy that they are here to be 25 with us today. What we intend to do today with Mr. Kenyon and his team is to update you on the results that continue to be evaluated at the Millstone station. In fact, some 2 indicators aren't as good as we had hoped that they would be, and we will talk about that. Fortunately, some 4 5 indicators are much better than we thought they would be. and we will surely talk about that as well. But as we go through this -- and I know from your trip at the site, I hope that you will sense the feeling of 8 the people of this station and the positive attitude that is beginning to grow at the station as we get nearer and nearer 10 11 what we hope to be the opportunity to bring the stations back on line, Unit 3 in particular. 12 We -- I felt very strongly about one of the 13 14 comments you made at that meeting when you looked at the 15 people in the audience that night and said that your decision, along with your colleagues', would be based on 16 17 results, and that the results were up to the people in that 18 audience which, as you will remember, was surely dominated 19 by Millstone people. That was an excellent comment because 20 it's those people who are going to get this job done for us. 21 And we will give you that data as quickly and succinctly as we can and as straightforwardly as we can. So we appreciate 22 23 this opportunity to come back and give you that update. 24 With that, I will turn it over to Bruce. MR. KENYON: Good morning. The purpose of our 25 presentation is to highlight the progress that has been made 2 in preparing for the restart of Unit 3, to review the criteria we intend to utilize as the basis of our restart 3 affirmation, and this is new to the briefing book, to 5 discuss our most important remaining issues -- these include our efforts to progress toward establishing a safety-conscious work environment, and Dave Amerine, who is 8 the officer who integrates safety-conscious work 9 environment, human resources and training matters, reporting to Mike Brothers, will brief you on that. And other matters 10 11 are approaching completion of demonstrating compliance with the Unit 3 design and licensing basis, Marty Bowling will 12 brief you on this topic as well as the topic of corrective 13 14 action. And Mike Brothers will discuss progress toward 15 achieving Unit 3 restart readiness. Certainly I want to have oversight briefly update 16 17 you regarding its assessment of our restart readiness, and 18 that will be done by Dave Goebel. 19 We plan to focus on Unit 3 and site issues 20 relating to Unit 3, but we are prepared to address questions 21 on other units, should you desire. We have provided considerable information to you 22 23 in advance of the meeting, in the form of both the briefing 24 book and copies of the slides for presentation. For the 25 most part, the format and content are similar to what you

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have received previously. We added the description in 1 2 considerable substance regarding the long-term improvement plan. We revised a few of the indicators to more clearly 3 display our status, and in so doing, to eliminate some previous apparent discrepancies between what we were 6 describing as our progress and the data as displayed by your indicator. We substantially expanded the executive summary with the objective of that being a much more comprehensive 8 9 presentation of our current state of readiness prognosis and 10 11 We did not make any changes to the slides after 12 their transmittal to you. Your admonishment from the last 13 meeting was very clear and understood, and we trust that this information and these adjustments have been helpful to 14 15 16 The balance of my portion of the presentation will 17 be devoted to highlighting certain items from the executive 18 19 This slide shows four of the eight criteria to be used by NU as a basis for affirming restart readiness. Now 20 21 these criteria were discussed in some detail in the 22 executive summary of the briefing book, two of the four, and these deal with root causes as well as self-assessment 23 corrective action. We view these as currently satisfactory. 24 25 The other two, compliance with the licensing and design 1 bases and safety-conscious work environment, are tracking to satisfactory. These topics will be covered later in more 3 detailed presentations 4 This next slide shows the remaining four criteria. 5 Unit and station readiness are tracking to satisfactory, and 6 will be discussed in subsequent presentations. Management controls and oversight are satisfactory and, of course, restart affirmation is pending. 8 9 Now this slide and the next summarize the progress we have made in addressing the seven success objectives and 10 the associated 16 key sitewide issues. These have been 11 12 discussed in previous briefings and are an essential part of 13 our recovery strategy. I am pleased to report that of the 16 issues, nine 14 15 now meet our success criteria for start-up readiness. This is a net improvement of three since our last meeting to have 17 reached satisfactory for restart. And on this particular 18 slide, emergency planning, self-assessment and corrective $% \left(1\right) =\left(1\right) \left(1\right) \left($ 19 action for Unit 3 all move to a satisfactory status. However, based on having identified an adverse 20 21 trend on procedure adherence, particularly pertaining to 22 administrative procedures, the status of procedure quality adherence was reduced from satisfactory to tracking to 2.3 24 satisfactory, and we expect to have this resolved by the end 25 of the month.

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one significant change on this slide from last time is that environmental compliance moved to satisfactory. The other five issues are tracking to satisfactory for February.

Now I particularly want to comment on training, which I had expected to reach satisfactory by the end of January. Progress has not met expectations.

Further, as a result of a management assessment

followed by an investigation, it was determined that with

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This next slide shows the remaining issues. The

10 regard to in-process training for the shift technical 11 advisors, the requirements of a systems approach to training 12 were not rigorously followed, and there were instances of 13 14 Now these are significant issues, we are 15 addressing these issues, management changes have been made, 16 and we are committed to achieving the proper standards, but 17 we do not expect this matter to affect the Unit 3 recovery 18 schedule. 19 Now this slide indicates what I believe are the 2.0 most important remaining challenges to bring Unit 3 to 21 restart readiness. Now the first is to complete the process 22 of establishing a safety-conscious work environment. There is one remaining criterion, that is the timely recognition 23 and effective response to problems. This was identified as 24 a key challenge at our last briefing, and while we have 25 1 2

taken a number of important steps to strengthen performance, the entire situation is overshadowed by a recent high-profile event, the use of an inappropriate phrase in working papers, and that situation is still in progress. 4 5 CHAIRMAN JACKSON: Let me stop you for a second with respect to that, and ask you the following question. And I realize that, as you say, it's still in progress, and I assume by that you mean that you are still investigating or looking into it. But given the level from which it came, or the level at which it was signed off, did you ever give 10 11 any thought to having a work standdown to just directly 12 address the issue and to solicit your employees' thoughts 13 about that? Given that, you know, you have had the intense 14 focus on physical readiness of the plant for restart, in 15 terms of what message this might have sent to your employees about your level of concern in terms of what chilling effect 16 17 it may have had even if it had been inadvertent? 18 MR. KENYON: What we have done, Chairman Jackson, is add a number of site meetings. I don't know that they'd 19 necessarily be classified as everybody at one point in time, 20 21 but we responded right away with meetings, both in oversight 22 and elsewhere on the site. We got together all of 23 supervision. We communicated, not just verbally but in 24 writing, not just to our employees and the entire site work 25 force but also to the public, that that particular phrase

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1 --which was not really signed out -- what this was was a 2 working paper developed to describe strengths and weaknesses in the oversight organization. It was a work in progress. The next step in the process was for that to be discussed with first-line supervisors and above in oversight, and they correctly said that phrase is inappropriate. And so that 7 was good, and we have done a review for chilling effect, and we have determined that there is none, which I think speaks well not just to the fact that there is not a chilling 10 effect, but it also speaks to the growing resilience of the 11 work force, and that something that can happen, and we now 12 have an environment where there's a lot greater trust than 13 what there used to be. 14 Now I am not in any way saying this wasn't a serious event. We are conducting an investigation; it has 15 resulted in a verbal debrief to me yesterday. I expect a 16 17 written report in about two weeks. This is taking somewhat

longer than I would like, and that may be the basis of some

criticism, but I want to underscore the following --CHAIRMAN JACKSON: In terms of your verbal 20 21 debrief, are there any preliminary conclusions that you are 22 willing to share with the Commission? MR. KENYON: Chairman Jackson, with all due 23 24 respect, I think this is not the time and the place to indicate the conclusions. This is an extremely important 25 matter. The integrity of the organization and certain people's careers are at stake. It is very important that I 3 get the facts, and while I have a verbal debrief, the issues in this are complicated; it's taken longer than I thought, 5 because as the investigation was accomplished, there were 6 certain conflicts in what was said by people giving their views that required a second round of interviews in some cases, and even in some cases it went to a third round. 8 9 While I have certain thoughts in my mind as to 10 what the ultimate outcome is going to be, I feel that given 11 the importance of this, there are certain things I want to 12 see written down. In other words, the investigator who has 13 done this has -- yes, he's given a verbal debrief, but he also needs to write up the investigation results with each 14 15 principal witness. He needs to take all that information 16 CHAIRMAN JACKSON: That's fine. On February the 10th, the NRC sent you a letter 17 requesting within 30 days your response to several questions 18 19 related to chilling effect, enforcement under 50.7. You intend then to fold the results of this investigation into 20 21 answering that under-oath-and-affirmation letter? 22 MR. KENYON: Absolutely. 23 Another challenge is to complete the process of 24 demonstrating compliance with the design and licensing 25 bases. CHAIRMAN JACKSON: Let me stop you again, because 1 I feel that I want to get all the issues onto the table here 2 right from the beginning. You know, I have just read and 3 had a short briefing on -- and all of the Commissioners have copies -- of an event notification on Millstone 3 that the 5 6 NRC has just received, and I believe, you know, we have to try to be as open and straightforward about this as we can, not to blind-side you, but presumably you know about it 8 since it was a notification that came from your station. 10 But the notification, at least on the surface, 11 appears troubling for numerous reasons. It states that a 12 condition could occur that could result in the failure of 13 the heat removal -- residual heat removal pump due to inadequate cooling, and that since both pumps have a similar 14 15 design, this could lead to a common mode failure. 16 Now from my briefing, I understand that a 17 motor-operated valve on the recirc line of the RHR pump 18 senses a pressure spike on pump start which closes the 19 valve, and that an emergency work request was initiated, and that a subsequent test confirmed the problem, but the issue 2.0 in the emergency work request was placed on the deferral 21 22 list, that is for work to be done post-restart, but that, 2.3 you know, NRC review of the deferrable items list questioned this condition, resulting in further review by you, and this 24 25 event notification.

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I guess I have a couple of questions I just want to walk through with you, if you would.

3 When was the original testing completed?

5 Brothers. 6 MR. BROTHERS: The original condition was actually discovered in the 1986-'87 time frame for the cycling on the 8 alpha train. 9 CHAIRMAN JACKSON: And when were subsequent tests 10 11 MR. BROTHERS: The subsequent tests were performed 12 about six weeks ago. 13 CHAIRMAN JACKSON: And can you tell me a little 14 bit more about your reasons for placing it on the deferred 15 items list and was it reexamined after these subsequent 16 testing failures? MR. BROTHERS: Yes. The condition occurs -- was 17 conservatively reported as potentially affecting both trains 18 because the logic of the arrangement is the same between the 19 20 two trains. It's only observed on one train primarily because of the location of the orifice that develops the 21 22 differential pressure that inputs to this signal to the recirculation valve that you correctly described. 23 24 The event that actually has to occur is a break of 25 particular size -- in other words, a break that stabilizes at a reactor coolant system pressure, at a fairly low level 1 2 below the injection point of residual heat removal at about 3 450 pounds, but high enough such that you can get into a 5 Effectively what's postulated here is that the 6 valve closes based upon a pulse across this orifice, and then when it times out, and by the time it reopens, it once again sees the same type of condition if the break size has 8 9 caused the reactor coolant system to stabilize at a 10 particular pressure. 11 We had contacted the nuclear steam system 12 supplying vendor and asked for the probability of a break of 13 this size. It is considered a very low probability that a particular break of this size would in fact occur, but if 14 you postulate this particular break size, you can get into a 15 cycling mode which causes a potential of a thermal overload 16 17 failure, and then the valve could fail either open or 18 closed. And depending upon reactor coolant system pressure, 19 if it's a high pressure, the valve failing closed is the 20 worst case because then the pump doesn't have enough flow to 21 keep it cool. If it's a very low pressure, the valve 22 failing open is a problem because you could be robbing flow 2.3 that should be going into the core in this condition. So depending upon reactor coolant system pressure, 24 25 the valve failure mode is worse, depending whether it's open or closed was really indeterminate. We did go back and look 1 2 at it based upon questions from the Nuclear Regulatory Commission and sent out the prompt report yesterday. CHAIRMAN JACKSON: How would you assess this in 4 5 terms of significance level? 6 MR. BROTHERS: I don't yet have all the details. I think it's very significant. We are in fact going to look 8 at it very hard from a process standpoint. We think it's a low probability event. I believe that that would be concurred upon. However, it appears that it may have been 10 11 narrowly assessed from the standpoint of the recirculation 12 valve cycling which we have normally seen as once. We have

never -- of course, we have never had a break in this

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MR. KENYON: I am going to have to refer to Mike

condition, but what you normally see is the valve cycle, it was considered a nuisance, and evaluated as such. It was 15 probably too narrow of an evaluation. 16 17 CHAIRMAN JACKSON: Do you feel this indicates some potential vulnerability in your corrective action program, 18 at least with respect to effective root cause and timeliness 19 of resolution? You indicated that the original testing was 20 21 back in the 1986 time frame 22 MR. BROTHERS: The condition that I described has 23 been known for some time. It was just simply treated as a 24 nuisance. This arrangement is generic for Westinghouse plants. It may be a Part 21 issue associated with 25 Westinghouse. So we knew about it, we have dealt with it for some length of time on a fairly narrow basis. I think 2 3 from the standpoint of the deferrable items list, that we need to take a look from lessons learned on this one as well 5 MR. KENYON: But just to emphasize, Chairman Jackson, we are talking about a situation where a very low probability event, some -- and I'm not trying to argue this, 8 but some believe it's not even a credible event, and 10 certainly once the possibility of the broader interaction was identified, we have gone forward from there. So we are 11 talking about something that is low probability, but 12 13 certainly we want to be conservative about it, and certainly once it's identified, we want to thoroughly pursue it. It's 14 15 not, as Mike Brothers indicated, it's not an issue that's unique to us, we think. So it's something that we'll be 16 responsible about, and chase. We --17 18 CHAIRMAN JACKSON: Well, I guess the issue for me, and I'll just leave it on the table, is this: There is the 19 2.0 specific issue related to the specific system, with all the issues of whether it's a Part 21 issue, whether it's been 21 quote, unquote, known about. But it is an issue that 22

relates to the potential inoperability of your ultimate heat sink, the ECCS system. It is one that had been uncovered during previous testing, and to the extent that you in fact

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1 continuously say it was something that was known about, then again, particularly known about for over a decade, then it raises questions about the narrowness of focus in getting to 4 the root cause when there was an anomaly in the testing in 5 your ultimate heat sink. And that, I think, is the issue because it's not a question of whether some people think that is credible or not credible. It has to do with something that could render your ultimate heat sink 8 potentially inoperable, and it has to do with narrowness of point of view as well as getting to the fundamental root 10 11 cause in something that's been around for over a decade. 12 And so that's the message in this from my perspective. And there's not a whole lot of explaining away there can be with 13 respect to those things. 14 15 Would you go on?

16 MR. KENYON: Another challenge is to achieve Unit 17 3 readiness.

18 CHAIRMAN JACKSON: And because it does raise 19 issues about your deferred items list, because you, you 20 know, that's been a concern, period. And now this issue 21 comes up at the zeroth hour, before this meeting, that is. 22 MR. KENYON: Another issue is to achieve Unit 3 23 readiness. We expect to achieve readiness for Mode 4 next

week. This will provide an important opportunity to heat

the unit up to normal operating temperature and pressure in 25

1 order to further check out systems.

2 CHAIRMAN JACKSON: Is this a system that is needed

for Mode 4?

MR. KENYON: Yes.

4 5 It also will allow us to close out a substantial 6 number of remaining items required for restart as part of 7 the process. We recognize the need to address this issue, to address the recirculation spray system to the NRC's 8 satisfaction before entry into Mode 4, and there's -- that's been a recognized issue and we have a meeting with the NRC 10 staff this afternoon to further discuss that. 11

12 We also recognize a challenge to manage 13 nonrestart-related work items to an acceptable level. This obviously goes right into just what we've been talking 14

15 about. 16 We have put together a process to determine 17 whether or not an item's deferrable, and certainly that process is dependent on how you look at it, and we do have 18 19 this question of the cycling of a valve, was that looked at too narrowly. For what we understood it to be, it was 20 21 legitimate to defer it, for understanding it to be something

2.2 more than that, then it's not likely to be an appropriate 23 item to defer. And we will as a result of this look back through our screening and come to some further conclusion as 24

25 to whether the screening has been right, but up to now we

1 have felt that we have applied appropriate screening. CHAIRMAN JACKSON: Do you feel your ECCS system is 2 3 important?

MR. KENYON: Absolutely.

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CHAIRMAN JACKSON: Okay.

MR. KENYON: And in response to the NRC's very broad question on backlog, and of course that goes into how do you define backlog, in response to how we were asked to define it, we have provided a listing of items to the staff which is very encompassing. It's not just those that are risk and safety significant. It's not just those that represent physical work. But everything that we're tracking in the way of plant betterment, enhancements, clarifications, drawing upgrades -- I mean, there's a lot here.

The paperwork in process, condition reports, this is all what we're tracking, and thus when you cast the net that widely, you come up with what appears to be a fairly sizable number. But we have assessed not just individual items but we've assessed the aggregate using PRA techniques, so we're comfortable that the totality of the backlog is acceptable for startup.

CHAIRMAN JACKSON: Now my staff tells me in fact 23 24 that if you look at this particular situation and you look 25 at what may dominate a core damage event, that this is

nonnegligible in that regard. And, you know, the issue is

not to get into, you know, a debate specifically about this,

but the two points I really want to make is, this issue

about nonrestart backlog, the question is whether you may

need to reevaluate what you call nonrestart versus restart.

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A second point has to do with an embedded issue
      with respect to corrective actions has been timeliness of
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     the fix, as well as comprehensiveness of the analysis that
     leads to it, and again, and I know the message you're trying
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     to project to us today, and we have a responsibility to
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     listen to you, but, you know, I can't reemphasize more
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     strongly the need to take this and to propagate it as a
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      lessons learned into what you do.
               MR. KENYON: And, Chairman Jackson, we will do
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     that, so I'm struggling a little bit to deal with an issue
     that just surfaced which we need to put through our process
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     and ask us just the same questions that you're asking, and
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     thus we need to respond to that, so I'm trying in a sense to
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      take that one issue and assure you that we're going to deal
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     with that.
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              CHAIRMAN JACKSON: Well, it's not one issue.
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     That's my point.
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              MR. KENYON: Well --
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               CHAIRMAN JACKSON: And that's what I want --
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               MR. KENYON: Ramifications --
               CHAIRMAN JACKSON: You to understand from at least
     my point of view.
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               MR. KENYON: Yes.
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               CHAIRMAN JACKSON: It's not one issue. It is an
     issue, and the question is to what extent does it have any
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      generic implications.
              MR. KENYON: And if I conveyed anything other than
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      that, I didn't mean to.
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               CHAIRMAN JACKSON: Okay. So why don't we move on.
               MR. KENYON: Okay. To -- I guess finish my
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      comments on backlog with all acknowledgement of what you
     just said, we do have a very broad definition of what
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     constitutes backlog. We do have a very low threshold for
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     identifying items. We have had a careful process to
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      evaluate things. We'll have to go back and check that. And
      we think the magnitude that we have compares reasonably with
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     other plants providing they use a similar threshold and a
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      similar scope. We'll talk more about the backlog in greater
     detail later in the presentation.
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               Another challenge is to achieve station readiness
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      to support Unit 3 restart. And the remaining issue here is
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      training, and we are going to get that resolved.
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              Now this next slide addresses important other
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      challenges in transitioning the Millstone organization from
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     a recovery organization into long-term operation. Chairman
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     Jackson, you correctly pointed out certain of these issues
     and challenges in your recent site visit, and I also want to
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      say in addition to what Mike Morris said that your visit was
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      very much appreciated by -- and this is based on
      considerable feedback by the community, it was appreciated
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      by the community, it was certainly appreciated by
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      management, and particularly by employees who valued and
      appreciated the considerable time that you spent devoted to
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      talking with them. That communication was important.
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              Moving on to the challenges, there's a challenge
     in the sense of needing to ensure sufficient separation of
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     Unit 3 operations from the continuing recovery efforts on
     Unit 2 and the shutdown maintenance mode on Unit 1. This is
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      accomplished by having a management structure and dedicated
     resources for Unit 3 startup and operations separate for
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That's No. 1.

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     that -- separate for Unit 2 recovery, and thus this is our
     means to ensure that there's a high degree of focus on unit
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               CHAIRMAN JACKSON: Where do you stand in
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      developing an integrated schedule?
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               MR. KENYON: We have an integrated schedule.
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               CHAIRMAN JACKSON: Has it been submitted?
               MR. BOWLING: It will be on the docket this week.
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               MR. KENYON: We have shifted into the normal
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      organization for startup and operations for Unit 3, and
     that's headed by Mike Brothers.
               Another challenge is the need to provide
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      additional monitoring and coaching as the plant resumes
      operation. The unit has been out for a long period of time.
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      We have to be very careful, cautious and conservative as we
      resume operation. An important action here will be to add
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     mentoring SROs in the control room from other units in order
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9
      to watch and coach as necessary, and we're going to do
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     something similar with plant equipment operators.
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               There's also the need to ensure that performance
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     monitoring and reporting and oversight shifts effectively
     into an operating mode such that we're well positioned to
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     detect any potential backsliding performance. The programs
15
      are in place. We have an acceptable but not generous number
      of personnel in oversight with operating experience, so I
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      think we're prepared to do that.
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               We need to establish a long-term improvement plan.
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      As I stated previously, achieving restart is just a
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     milestone on the road to excellence. The plan has been
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      drafted. A significant portion of that was included in the
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     briefing book and we will include the complete plan as part
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     of our next briefing.
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               Another important need is to do organizational and
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     succession planning. As we transition out of recovery mode,
      we're going to go to a simpler organization. The needs for
     that need to be defined. An important characteristic will
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     be to maintain good checks and balances. We will do
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      succession planning for obvious normal reasons, but also to
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      improve bench strength. We're not as deep as I would like,
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      and certainly we need to prepare for the eventual phase-out
      of the recovery organizations. So even as we prepared for
      restart, consideration is being given to these important
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9
      other challenges.
               Unless there are further questions for me, I would
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     like to call on Dave Amerine to brief on safety-conscious
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     work environment.
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               CHAIRMAN JACKSON: Please.
               COMMISSIONER McGAFFIGAN: I would like to ask one
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     question since it's not going to fit in anywhere easily in
     the briefing about Unit 2. The staff is going to present
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     slides later that show their current schedule looking toward
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      completing staff actions around the 10th of July. The last
19
      time you were here, you were hoping to be one month behind.
```

22 MR. KENYON: We've I think previously
23 characterized Unit 2 as being two to three months behind
24 Unit 3. The July time frame is obviously -- appears to
25 support the three-month interval. There has been some

Is that where you now are, three months behind in your own

20

21

schedule?

and the July time frame is right for where we are now. 4 COMMISSIONER McGAFFIGAN: And then one other questions. Parsons, in one of its backup slides, is --5 preliminarily in their discrepancy report found five Level 1's and one Level 2 at Unit 2. You all will have a conversation, but if that holds, that will have implications 8 about your startup schedule as well. MR. KENYON: We understand that. 10 11 Marty, how many have we responded to at this 12 point? MR. BOWLING: We have responded to those Level 1's 13 14 and provided additional technical information that should 15 justify a reclassification of those levels. That's certainly up to Parsons to confirm. 16 17 COMMISSIONER McGAFFIGAN: So in your judgment, the 18 Level 1's and Level 2's are 3's or 4's? 19 MR. BOWLING: That's correct, and some of those 20 have been responded to for over several months. 21 COMMISSIONER McGAFFIGAN: Several months. MR. BOWLING: Yes. 22 23 COMMISSIONER McGAFFIGAN: Very well. I'm going to 24 ask questions later. CHAIRMAN JACKSON: Okav. 25 28 1 COMMISSIONER McGAFFIGAN: Thank you. MR KENYON: Dave? 2 MR. AMERINE: Good morning. My name is Dave 3 Amerine and I'm the Vice President of Human Services at 4 5 Millstone I have recently assumed the responsibilities for 7 the safety-conscious work environment there. In this 8 capacity, I report to Mike Brothers, who retains the responsibilities as executive sponsor for establishing and maintaining the safety-conscious work environment, but I 10 11 will be going through that presentation. May I have the first slide, please. 12 This slide gives our six high-level success 13 14 criteria which we will use to ensure that we have 15 successfully established and are in a position to maintain a safety-conscious work environment at Millstone Station. I 16 17 will discuss the first four of these success criteria. The 18 last two, the employee concern oversight panel and Little 19 Harbor Consultant validation of our efforts, are independent 20 verifications of our evaluation. 21 At the December 12th NRC Commissioners' meeting, we reported that we felt we were currently meeting our 22 23 acceptance criteria in the first two success criteria; that 24 is, employee willingness to raise concerns and line 25 management's ability to handle issues effectively. Today, I 1 am pleased to report that we continue to meet our success requirements in the first two criteria, and we now feel that we are meeting our success criteria in the third area, an 4 effective employee concerns program. Although in general, we feel we are tracking to success in the fourth area, the ability to recognize and 6 address problem areas, as Bruce Kenyon mentioned, we have had a potentially significant event which is under investigation at this time. This is the recent situation 10 which occurred relative to a brainstorming session in nuclear oversight during which inappropriate terminology was

impact on Unit 2 because we have been devoting so much attention and resources to Unit 3, so I think three months

used. 13 However, overall, we believe we have made progress 14 in all areas in establishing a safety-conscious work 15 environment and are on track to support the restart of Millstone Unit 3 in this important area. 16 17 The first criterion I will discuss is the 18 willingness of employees to raise concerns. This criterion 19 is currently being met. 20 This graph shows our current leadership results to 21 support success criterion on employees' willingness to raise 2.2 concerns. As shown on the slide, our criterion is that 23 greater than 90 percent of the people are willing to raise 24 issues to their immediate supervisor. The current value is approximately 97.5 percent, so this criterion is currently 25 1 being met. 2 This graph shows the culture survey results which assess the percentage of respondents who agree that there is 3 a safety-conscious work environment in their work area. Although this measurement is not yet at our long-range goal, 5 we believe the current results in the overall cultural survey coupled with the percentage of people who are willing 8 to raise concerns to their supervisor meet our acceptance 9 10 This next graph shows our confidentiality plus anonymous trend. The top line is the total number of 11 12 concerns received per month and the bottom line is the total number of concerns which are requesting either 13 14 confidentiality or are received anonymously. Our criterion 15 is that no adverse trend exists in this area. As you can 16 see, in both December and to a lesser extent in January, we 17 had an increase in the total number of concerns and, 18 correspondingly, an increase in number of concerns which requested confidentiality or were received anonymously. 19 20 Although the percentage of confidential or 21 anonymous concerns actually decreased, we will be watching this indicator closely to ensure that an adverse trend is 22 23 24 By February 17th, four of the twelve concerns 25 received so far this month requested either confidentiality or were received anonymously. Now, if extrapolated 1 2 linearly, the total for February should be approximately 20 total concerns, which is less than both December and 3 4 January. There is no particular pattern in the increase of concerns that has been detected, and in the same period, the 5 trend of allegations to the NRC has decreased. 6 I might add that I was responsible for instituting an employee concern program at Davis Besse during their restart, the recovery and restart of that unit, and also at 10 the defense waste processing facility of the Savannah River 11 site. And when you go through that initial training and advertising advertising to increase employee sensitivity and 12 13 awareness of an Employee Concern Program, in both those 14 cases, I experienced a similar kind of increased activity in the beginning of the program, which eventually tapered off, 15 16 so this is not unexpected, in my opinion. 17 CHAIRMAN JACKSON: You mentioned there that although there is an adverse trend, that there are other 18 19 indicators substantiating that employees are willing to

raise concerns. Are those the other graphs that you are

going to be talking about?

20

23	CHAIRMAN JACKSON: Okay.
24	MR. AMERINE: Okay. The second criterion that I
25	will discuss is the effectiveness of line management in
	32
1	handling issues, like the first, we are currently meeting
2	this success criteria.
3	This next graph shows the average age of our
4	Condition Report Evaluations. Our goal is not to have an
5	adverse trend in this indicator. The average time of
6	Condition Report from a Condition Report initiation to
7	evaluation was approximately 23 days during the month of
8	January.
9	The last three weeks the average age of the
10	Condition Report Evaluations has increased from 26 to 34
11	days. Most of those not achieving the goal are exceeding
12	the 30 day target by only a few days. This is due to the
13	priorities, our engineering work force being directed to
14	respond to the Independent Corrective Action Verification
15	Program, support the transition to Mode 4 and respond to the
16	NRC inspection activities.
17	However, for the week of February 11th, of average
18	age of completed Condition Report Evaluations dropped once
19	again to 30 days. We believe we are effectively managing
20	this metric and performance in this area is currently
21	satisfactory.
22	CHAIRMAN JACKSON: Okay. So let me make sure I
23	understand. What you are saying is that even though this
24	average length of time has gone up, you are saying that you
25	understand it because the work force that would be
23	anderstand to seconds the work route state would be
	22
1	33
1	addressing these have been diverted to other things?
2	addressing these have been diverted to other things? MR. AMERINE: That is correct.
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4 3 percent. Significant attention has been focused on 5 completing those actions necessary to Mode 4, as we just

MR. AMERINE: Yes, ma'am. Yes, ma'am.

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discussed. As a result, the lower priority Corrective
      Actions became overdue.
               Now, once again, due to increase management
      attention in response to this KPI, for the week of February
      11th, we once again were at the goal of 3 percent, so this
10
11
      criterion is currently being met as well.
12
              CHAIRMAN JACKSON: How quickly must they be
      assigned? You say, you talk about the number of overdue
13
14
      assignments. When do they become overdue? I mean how
15
      quickly must they be assigned in order not to be overdue?
16
               MR. AMERINE: Well, we are trying to get them
17
      assigned as soon as they come in the door, and then get the
18
      Evaluation done within those 30 days.
               MR. BROTHERS: There's an Evaluation, the
19
20
      timeliness of the Evaluation is 30 days, and then the
21
      overdue is based upon the approved due date once that
22
      Evaluation comes out. So the overdues are looking at
23
      something that has gone past the due date that was approved
24
      by the Management Review Team.
               CHAIRMAN JACKSON: Okav.
25
               MR. AMERINE: Thank you. The third criterion I
 1
 2
      will discuss is the effectiveness of the Employee Concerns
      Program. We now evaluate our performance in this area
      satisfactory.
 4
 5
               The next slide shows the average age of unresolved
      concerns. In the December 12th presentation, the success
      criterion was that 90 percent of all investigations are
 8
      completed within 45 days. It was also indicated at that
      time we were assessing the validity of this indicator, of
10
     the effectiveness of our Employee Concerns Program. This is
11
      because an undue focus on timeliness can result in
12
      degradation of other areas of the Employee Concerns Program.
13
               We have altered our criterion to look at the
      average age of unresolved concerns to more effectively
14
15
      assess the ability of the organization to keep up with its
      receipt rate, without sacrificing any of the other aspects
16
      of the concern processing. No adverse trend with regard to
17
      this average age of unresolved concerns exists at this time,
18
19
      so this criterion is currently being met.
20
               The next slide shows the percentage of employees
21
      who have used the Employee Concerns Program, that would use
      it again if they had the need. The first three data points
22
23
      are really Little Harbor consultant numbers since we were
24
      not tracking this parameter during the early part of 1997.
      In December of 1997, we commissioned the Employee Concerns
2.5
 1
     Oversight Panel to ascertain a certain value for this
 2
      metric. This was determined to be 75 percent, which is the
      lighter shade bar. At the same time, Little Harbor, their
 4
      estimate was 83 percent.
 5
               CHAIRMAN JACKSON: When do you plant to do your
      next survev?
               MR. AMERINE: We are going to have them
 8
      commissioned to do that from now on. In fact, I talk about
 9
      that at this moment.
               CHAIRMAN JACKSON: On what frequency, I mean?
10
11
               {\tt MR.} AMERINE: I am not sure of the frequency, but
12
     it is going to be -- they are just getting into this metric
13
14
               CHAIRMAN JACKSON: You haven't decided what the
15
      frequency will be?
16
               MR. AMERINE: Yes, ma'am.
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CHAIRMAN JACKSON: Okay.
               MR. AMERINE: We are continuing to refine this
18
19
      metric to determine additional factors such as the areas
20
      that we would be looking, reasons for dissatisfaction and so
      forth, and we are going to fold that into determining, you
21
22
      know, what the answer to your question would be.
23
               At this moment, though, based on both Little
24
      Harbor and our initial one, we assess this metric as meeting
25
      expectations and expect to gain further useful information
1
     for it to become a more effective measurement as we use the
      Employee Concerns Oversight Panel data. So, therefore,
2
3
     right now, we believe this criterion is being met.
 4
               The fourth criteria is our effectiveness if
      recognizing and remediating problem areas within the
     Millstone organization. Although the performance in this
6
7
      area has improved, we are not currently meeting our
              The first slide here is simply a compilation of
9
10
      our current status of training to our supervisors and above
11
      at Millstone Station. We are committed to get above 95
      percent on the first three training categories, and we
12
13
     believe that we will have all three of those above 95
     percent by mid-March. The other one that is shown on there
14
     is our Forum for Leadership Excellence, and we will have the
15
      work force above 95 percent by mid-1998.
16
17
               CHAIRMAN JACKSON: Is this in-house training that
18
     you do, or you bring in outside?
19
              MR. AMERINE: It is a combination.
20
               CHAIRMAN JACKSON: Combination. And tell me about
21
     the Forum for Leadership Excellence.
22
               MR. AMERINE: That is a program that, in fact, my
23
      first two days at Millstone were spent in that Forum for
2.4
     Leadership Excellence. And we get, at various levels, we
     have brought together the managers and supervisors and we
25
1
      are working our way on down through the organization, and it
      is facilitated by an outside contractor who has done this at
     other utilities, to basically develop communication skills
3
      and techniques and team work approaches and so forth, and we
      have found it to be very useful.
              One of the things that I have seen that it does is
 6
7
      it starts to develop a common language across the site.
               Okay. Next slide. This slide shows our current
9
      trend of Employee Concerns alleging instances of harassment,
1.0
     intimidation, retaliation and discrimination with 50.7
11
     implications. We use a conservative classification of HIRD,
     including not only explicitly stated alleged activities, but
12
13
      also any inferred from the Concern Statement, including fear
14
     of possible future retaliation.
               The HIRD classification includes matters such as
15
     race discrimination and sexual harassment, as well as the
16
17
     chilling effect and adverse actions related to protected
     activities. So we are using a conservative definition in
18
19
      looking at this.
20
               But, regardless, we have zero tolerance for all
     HIRD instances, especially those leading to potential
21
22
      violations of 50.7.
23
              We have completed a review of 218 concerns between
     December 1st, 1996 and January 31st, 1998, which reveal that
2.4
25
      approximately 50 percent of the concerns had one or more
1
     HIRD elements, and approximately 25 percent had 10 CFR 50.7
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potential implications. These proportions are consistent

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bring those down.
 4
               Our criterion is that substantiated instances of
     potential 10 CFR 50.7 violations are rare and are handled
7
      responsibly. The top line shows the total numbers of
      concerns received and the bottom line on the chart shows
8
      those concerns with potential 50.7 implications.
              The bar, in August 1997, represents three
10
11
      instances of substantiated potential 50.7 violations. These
12
      three were all as a result of the MOV event which occurred
13
     in July-August time frame. Now, as of February 17th, these
     are the only substantiated cases of potential 50.7
14
15
     violations which we have had during the period of
     May-December 1997.
16
17
               There are additional cases that are still under
     discussion with a third party which have the possibility to
18
     be substantiated as potential 50.7 violations.
19
               This criterion, we feel at this time is being met.
20
21
     However, extensive executive involvement in any confirmed
     case of HIRD, regardless of whether or not there are 50.7
22
      implications, will ensure that Corrective Actions, up to and
23
24
      including reassignment and removal, are effective at
25
      eliminating HIRD at Millstone.
               CHAIRMAN JACKSON: If you have zero tolerance,
1
2
      what is your satisfactory performance criteria?
               MR. AMERINE: Well, in the discussion that Bruce
      Kenyon had about that before, where we are headed is to get
4
5
      the instances of this to be very rare and the total impact
      to be as low as possible.
              CHAIRMAN JACKSON: I guess I'm really trying to
8
      probe the thinking, I mean you have this lump-up here in the
     November-to-January time frame, but you feel that your
     performance is satisfactory, and is that because at this
10
11
      stage of the game, even though you have the potential
12
     concerns, they haven't been substantiated? I guess I'm
     trying to understand these relative to the trend on the
13
     graph what the definition of satisfactory is.
14
15
               MR. AMERINE: Right. As I was saying before, this
16
     looks similar and it is very similar to the previous graph I
17
     had on this, and these are alleged concerns that have come
18
     in, and again I believe that we're seeing this spike up,
19
     which is now coming down, and if we make a linear
20
      projection, February will be a 20, whereas January is 27.
21
               CHAIRMAN JACKSON: Ah, you can't make a linear
2.2
     projection.
23
               MR. AMERINE: Oh, I'm not saying --
               CHAIRMAN JACKSON: Can't do that.
24
               MR. AMERINE: You're absolutely right. But if we
25
      were, the number would have come down --
1
2
               [Laughter.]
               MR. AMERINE: But again, as I said, my experience
      at both Davis-Besse and the Defense Waste Processing
4
5
     Facility was that they went up and started to come back
6
               CHAIRMAN JACKSON: I understand all that. But
7
8
     what I would suggest that you -- I think it's -- you don't
     make linear extrapolations with something like this.
               MR. AMERINE: No.
10
               CHAIRMAN JACKSON: That's No. 1. No. 2, it is
11
12
     better to keep the emphasis on what's substantiated and
     what's not.
13
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with previous classifications, but we are working hard to

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MR. AMERINE: Right.
               CHAIRMAN JACKSON: And 3, if you think that there
15
      are explanatory statements you can make, which is probably
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17
     buried in here, you know, just list them in the margin,
     because I think that you don't want to affect your
1.8
      credibility about statistics and talk about extrapolation
19
20
     here.
21
               MR. AMERINE: I understand.
22
               MR. KENYON: Could I just -- I agree with what you
23
      said, Chairman Jackson. These HIRD items, just to
24
      emphasize, these are either alleged --
               CHAIRMAN JACKSON: I know.
25
1
               MR. KENYON: By the concerned or inferred --
 2
               CHAIRMAN JACKSON: Right.
               MR. KENYON: Or just a chilling effect. I mean.
3
4
     it is a pretty broad definition.
               CHAIRMAN JACKSON: Right. And all I'm trying to
      say is that it is better to talk about it that way, in that
6
7
      way, then to talk about linear extrapolation.
               MR. KENYON: We understand.
8
               CHAIRMAN JACKSON: Right. Please.
9
10
               COMMISSIONER DIAZ: Also, when you look at all of
11
     this graph, it might be appropriate to, you know, look at
     any one of them and say, you know, right now is not
12
      satisfactory, but the trend is not declining, but some of
13
14
      them you put a criteria and then you said well, you know, I
     look at any one of them, you know, criteria is less than 3
15
      percent, and obviously the last four months is over 3
16
17
     percent. Without extrapolation, using some averaging,
18
     you'll still be above three.
19
               So you have not met the criteria, but you can make
      an explanation if that is not significantly above the
20
21
      criteria, and that is not trending adversely. But, you
     know, I think making a statement that, you know, it's
22
     satisfactory or we met the criteria, it doesn't track with
23
      your graph. It's better to say it doesn't meet the
2.4
      criteria, but it doesn't meet it by a little bit, and is
25
1
     not, you know, tracking adversely. And I think that would
2
     be a little better from my viewpoint.
               CHAIRMAN JACKSON: Right. And I mean I think that
      all of these things are consistent. But, you know, and I
      realize you've had quite a bit of prior experience, but
6
      each, you know, entity and each organization is different,
7
      and therefore linear extrapolation's a very dangerous thing.
               MR. AMERINE: Okay. If I could have the next
8
     slide, please.
9
10
               This slide shows our total number of problem areas
11
      at Millstone Station. In fact, successful action plans have
12
     brought the number of problem areas down from 33 to 11.
13
     Four of the problem areas' action plans are nearing
      completion, four of the 11 that are left at this time, and
14
      are expected to be effective in mid-March.
15
               Now a problem area is any area in which a
16
17
      safety-conscious work environment may not exist. Problem
18
      areas are identified by inputs from the employee concern
      program, from the employee concern oversight panel, from
19
20
     Little Harbor Consultants, or from the culture or leadership
21
      surveys, or a combination thereof.
22
               Our criterion is that the total number of problem
     areas not indicate an adverse trend. While we meet that
23
2.4
      criterion, we have not yet demonstrated the ability to
     proactively identify and remediate problems prior to them
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1 becoming obvious problems.

2 The nuclear oversight problem discussed by Bruce Kenyon notwithstanding, we have several examples of proactive responses to potential problem areas in the recent 4 past. In other words, we have successfully prevented some 5 potential areas from becoming problem areas by effective intervention. We expect this performance level to continue 8 to improve and the organization's ability to identify and prevent problem areas to take precedence over our ability to 10 remediate problem areas which have been allowed to occur. 11 Increased senior human resource management and legal 12 presence on site is helping in our responsiveness. Returning to our six success criteria as we 13 reported during the December 12 NRC Commissioners meeting, 14 we are meeting our criteria for employees' willingness to 15 16 raise concerns and line management's effectiveness in 17 dealing with issues raised by employees. We have made 18 significant and meaningful progress towards establishing an effective employee concerns program. Today we feel we're 19 20 meeting the success criteria in that area. 21 The fourth success criteria, our ability to 22 recognize and address problem areas, is where we still need to improve to meet our success criteria. Significant 23 24 progress has been made over the last few months. This area

The remaining two success criteria, employee concerns oversight panel and Little Harbor Consultant concurrence, are under way and expected to support the Unit 3 restart schedule.

will continue to be our focus going forward.

Now speaking of going forward, our next focus in the area of safety-conscious work environment is the development of the plan that Mr. Kenvon mentioned. As we have consistently stated, our overall recovery strategy is the startup and then power ascension, and then the long-term performance improvement plan. Mike Brothers is also the executive sponsor for the long-term performance improvement for Millstone station, as well as the safety-conscious work environment, which is a subset of that.

14 Included in this plan are some plan enhancements 15 to our processes which will support the safety-conscious work environment. These include but are not limited to 16 17 clarification of employee concern program responsibilities, long-term organizational alignment within the areas that I'm 18 responsible for, first-line supervisors' handbook, and a 19 safety-conscious work environment manual. This plan should 20 21 be finalized in late February or early March.

CHAIRMAN JACKSON: Thank you.

MR. AMERINE: If there are any other questions, 23 I'll pass the baton to Marty Bowling. 24

25 Thank you.

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1 MR. BOWLING: Good morning.

2 Before I begin, let me clarify my response to your question, Commissioner. In terms of the five Level 1s and the one Level 1 -- Level 2 on Unit 2, we have responded to 4 5 three of the Level 1s and the one Level 2, and that was done in '97. The responses for the remaining two Level 1s are in final preparation and will be provided shortly to Parsons. In my August and December briefings to you I

discussed the status of corrective actions at Millstone.

10 Today I want to update you on our progress.

In general terms it's my view that the corrective actions continue to be on track to fully support both Unit 3 12 13 restart and the continuing recovery of Unit 2. We have a 14 program that is designed to industry standards. This 15 program has been implemented, personnel trained, and self-assessments of both the process and the quality of 16 17 results are being performed. I think this is the key 18 attribute, in that it's not a perfect program, but when we 19 find we've made a mistake, we're looking at it in its broadest extent to understand the extent of the problem and 20 21 making sure that we get that fixed. And this issue that you've brought up will go right into that process. 22 23 Also, nuclear oversight is providing weekly 2.4 independent surveillance of the program. 25 This slide shows the four major programmatic 1 elements and the supporting attributes of corrective action in the broadest sense. This slide, which focuses on Unit 3, is color-coded to represent the current status toward 3 restart readiness for Unit 3. My purpose is to give you a balanced sense of the robustness of our corrective actions at this stage of the 6 recovery. The first two elements, problem identification 7 and problem evaluation, were discussed last December and continue to be satisfactory. As you will note, the two 9 elements of problem resolution and corrective action 10 11 effectiveness are not yet satisfactory, but are on track. 12 Indicators are provided in the issue book for most of these 13 areas, and include both restart and postrestart items. With respect to problem resolution and corrective 14 15 action effectiveness, the principle issues that I will focus 16 on are the restart backlogs and configuration management 17 effectiveness. Both Mike Brothers and I will also discuss 18 postrestart backlogs. Mike will also discuss repetitive 19 issues and Unit 3 organizational readiness. The restart backlog or remaining tasks required 20 21 for restart of Unit 3 are shown in this slide. These remaining tasks include all of the items required to restore 22 compliance with the design and licensing basis for safety 23 2.4 and risk-significant systems as well as NRC regulations. As you can see, this indicator is showing steady progress and 25 it's tracking to satisfactory. As of February 17, 684 1 restart tasks remain. CHAIRMAN JACKSON: How many, 683? 3 4 MR. BOWLING: 684. CHAIRMAN JACKSON: 684. And that's as of the 7th -- 17th. 6 MR. BOWLING: Yes. 8 This slide and the next give a better perspective 9 of the remaining tasks required to restore compliance. As 10 Bruce indicated in his remarks, progress continues on the 11 key organizational and programmatic issues. This slide shows that most of the significant items, that is, those 12 issues that could affect the operability and functionality 13 of safety and risk-significant maintenance rule equipment, 14 15 have been addressed. In addition, substantial progress has been made in 16 17 responding to the NRC's significant-item list relating to 18 manual chapter 0350 process. Finally, we are meeting our commitments to the 19 NRC. Just to update you where we are as of vesterday on the 20 21 significant items with 50.54(f) it's 252 items remaining for the MC0350 significant items list there are six.

23 CHAIRMAN JACKSON: You had indicated in your 24 executive summary that you would expect that all the 25 significant items list packages to be submitted to the NRC by mid-February. Did you -- were you able to meet that? 1 2 MR. BOWLING: There are still six. 3 CHAIRMAN JACKSON: Oh, that's what you mean when 4 you say there's six. 5 MR. BOWLING: Yes. Yes. 6 CHAIRMAN JACKSON: Okay. I understand. 7 MR. BOWLING: I will discuss our responses in more 8 detail. That number's substantially less. And for open NRC restart commitments, it's at 77. The next slide. 10 11 This slide shows the corrective action resulting 12 from the NU-performed reviews to restore compliance to 13 design and licensing basis. As you can tell, a substantial number of the corrective actions have been completed. 14 15 The next slide, please. 16 Now moving to the second element, corrective 17 action effectiveness, I want to concentrate on configuration management program effectiveness. 18 19 The program for reviewing the Millstone Unit 3design and licensing basis was developed in the spring of 20 21 1996. The methodology used was to perform a diagnostic 2.2 review of key design and licensing basis documents. Based 23 on the diagnostic results which were provided to the NRC in July of '96, the scope of the configuration management 24 25 project was determined. In summary, this was a graded 1 review based on risk and safety significance. Still, it was 2 comprehensive in scope with 88 maintenance rule covered systems, 19 topical areas, environmental qualifications, 3 energy, line break, fire protection, and portions of 4 5 approximately 60 other technical programs. Also, the FSAR and technical specifications were reviewed to determine if they were being complied with. CHAIRMAN JACKSON: Let me ask you, you have a 9 meeting this afternoon --10 MR. BOWLING: Yes. 11 CHAIRMAN JACKSON: -- with the NRC staff on the 12 recirculation spray system, and it's a system, you know, that I happened to look at when I was there, and to a large 13 14 extent, you've reconfigured that system during your shutdown. Can you describe the problems you've had and how 15 16 you assure yourselves that the system now is operable? 17 Would you just kind of walk through that in a succinct 18 fashion? 19 MR. BOWLING: Okay. And I may ask Mike Brothers 20 for some help here as well. 21 CHAIRMAN JACKSON: Sure. Okay. 22 MR. BOWLING: In initial startup, there were flow 23 stability problems through the heat exchangers of that system which required restrictions on flow, and the various 24 25 analysis has been to assure that the flow stability is

51

1 acceptable, and that has required both reconfiguration of 2 the lineups in terms of injecting into the reactor coolant

system directly as well as supporting other ECCS pumps, and

4 it has also required physical modification such as orificing

5 in order to get the flows right.

operators being able to do lineups in the required amount of time, and that time was extended to give them the adequate 9 time to perform these evolutions. Mike? 1.0 MR. BROTHERS: Yes. I would break the problems 11 12 with the recirculation spray system up into, as you 13 described, the original problem, too much flow through the 14 heat exchangers when we went into the injection mode, which was changed in 1985 and called into question in our process. 15 16 When we shut down, we identified fluid temperature $\ensuremath{\mathsf{S}}$ 17 problems with a failure of service water which resulted in a fluid system excedent, ambient temperature problems, and the 18 19 fact that we treated the containment temperature profile 20 during a large break LOCA as a transient event, that was 21 called into question. 22 We had water hammer events that came from the 23 generic letter as a result of the Haddam Neck problem that 24 they had had on their containment air recirculation fans. 25 It wasn't in the same system, but it was a water hammer 1 event. 2 We had the ECS valve erosion event, the single most significant event we had, an industry event, which says that the valves were throttled down so far that if you can 4 imagine a line going to the break, the loop that the break 6 is in, that the position of that valve being throttled is supposed to eliminate or reduce the amount of flow that's 7 being robbed and going to the break, but the valves were 8 found by EPRI to be in the cavitating range and they fail 1.0 quickly. Orifices were installed for that as well as the 11 air entrainment issue that was identified in the tier 1 12 inspection. 13 So all those in addition to the original design problem of too much flow were in the recirculation spray 14 15 system. 16 CHAIRMAN JACKSON: Okay. MR. BOWLING: We have put on the docket a fairly 17 comprehensive discussion of how the system is performing 18 19 today versus its original licensing basis and all the --20 explaining all the changes. CHAIRMAN JACKSON: Thank you. 21 22 MR. BOWLING: As I stated, the configuration 23 management effort was graded based on risk and safety significance. Initially, the scope was focused on the areas 24 25 of weakness identified in a diagnostic review; however, we 1 recognized that self-assessment would be critical. Simply 2 stated, we know that we must be able to find our own 3 problems and fix them before they become more significant. In addition, the ICAVP review process has resulted in findings that have also required us to determine the need 5 for additional reviews. In a number of cases, we have performed the necessary additional work to provide added assurance that we have identified all of the important 8 9

Also there was a timing issue in terms of

This slide shows the additional areas that have or are currently being addressed. A number of issues have been identified by these reviews, but none individually have had high safety significance or have resulted in a reportable event under 10 CFR 50.73.

Two of these reviews cover areas recently

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11 12

13 14

17 principal concern was for the potential for air binding of 18 safety required pumps which was identified by the NRC in 19 their Tier 1 out-of-scope SFFI and was mentioned by the NRC in the December Commission meeting with you as a potential 20 21 high safety significant issue. 22 At the January 13th pre-decisional conference 23 which was open to the public, we provided the NRC staff with 24 information demonstrating that this issue posed no safety 25 impact and that the Millstone ECCS systems were operable and 1 functional. We are also providing the NRC staff the technical information we relied upon so they can independently review our conclusions. 3 The other issue concerns the use of operating experience, especially NRC information notices. The Unit 3 5 6 configuration management effort did utilize a significant amount of operating experience, but the scope did not explicitly require a review of NRC information notices. As 8 9 a result, despite several opportunities, we missed the RSS 10 air-binding issue. To address the extent of the potential for air 11 12 binding as well as any other operating experience issues 13 that relate to system-to-system interactions, we expanded 14 our reviews to an integrated system functional review. This 15 review, which drew heavily upon operating experience, looks specifically at system interfaces and system-to-system 17 interactions. 18 The team consisted of a multi-discipline group of 19 engineering, operating and operating experienced personnel and has been in place since late October of last year. The 20 21 team is also performing reviews of the FSAR with a 22 particular focus on the interface between the AE and the NSSS design safety system functions. 23 24 Additional reviews of NRC information notices is 25 also currently taking place to ensure that our scope has been adequate. With respect to the other items on this 2 slide, reviews and any needed corrective actions are being pursued. You will note that several of these items are 3 consistent with the preliminary ICAVP contractor DR trend 5 results to be presented later by Sargent & Lundy. 6 CHAIRMAN JACKSON: Has your management team in any 7 way been surprised at the amount of work necessary for you 8 to regain your assurance of conformance with the design and 9 license basis? MR. BOWLING: I don't know if surprise is the 10 11 right word. Clearly, we have learned a lot as we have gone 12 through this process, and I have to say that it started -the process started with an organization that was not at the 13 14 level of performance that we have today or that met a 15 standard, so it's a process of increasing standards. The other aspect of this which I think is 16 17 important is that I mentioned several times that we did a 18 graded safety review. In other words, this review stopped 19 when conformance to design and licensing basis was 20 confirmed. The ICAVP review goes deeper in the sense that 21 it's looking at essentially all calculations and drawings that relate to the systems that are in scope. I think this 22 23 is the explanation for a lot of the Level 4's. 24 CHAIRMAN JACKSON: Let me ask you one last question given what you just said. You know, when I was on 25

addressed in a pre-decisional enforcement conference. The

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MR. BOWLING: Yes.
2
               CHAIRMAN JACKSON: You know, I was walking around
 3
     to meet employees, and I did that, I met a number, but I
4
     also met a lot of contractors, and I guess -- what is your
 5
     assessment today? One has to do with standards, but the
 6
      other actually has to do with actual capabilities, of the
      strength that the organization has in engineering, you know,
9
      given that a lot of these kinds of issues, at least, that we
1.0
      are discussing at the moment, depend on that area, and one
11
      of these days, the contractors are going to be gone.
               MR. BOWLING: Right. Certainly, the knowledge
12
13
      transfer is a critical issue for us. I would say that in
14
     our system engineering area that we are less reliant on
     contractors, and they have been involved heavily in the
15
16
     process. In addition, we have done a lot to document with
17
     design basis summaries of the key safety-related functions
18
     and systems so that we have that record.
19
               CHAIRMAN JACKSON: Okay.
20
               MR. BOWLING: We are also looking at the ICAVP
21
     Discrepancy Reports, DRs, and although, individually, most
22
    are not safety significant, in aggregate, they may indicate
23
    an area requiring program enhancement. We will make these
    enhancements upon confirming that the DRs and the trends are
24
25
     valid.
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 1
               The trends that we are currently evaluating do not
 2
      indicate any programmatic weakness or breakdowns, but will
      likely afford an opportunity to improve.
               With respect to the DRs, we are on track to
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5
      respond to all that have currently been received from the
      ICAVP contractor by the end of February. We currently have
      212 remaining to respond to.
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8
              As of February 11th, we have responded to 634,
9
      subsequently we have responded to more, as I indicated.
              The single level 2 DR for Unit 3 relates to a
10
11
     number transposition error and a degraded voltage
12
      calculation. This error was in a non-conservative
13
     direction, but sufficient voltage is available for the
14
      effected safety-related equipment to perform its safety
15
     function and the design basis was met. We have responded
     with the technical information to support a level 4
16
17
     reclassification of this issue, which we believe the ICAVP
18
     contractor will confirm.
               Again, the remaining DRs are scheduled to be
19
20
     responded to by the end of February.
21
               CHAIRMAN JACKSON: Let me ask you, you know, and I
     know the focus has been on Unit 3, but from where you sit,
2.2
23
     is there a difference, or a detectable difference in the
24
     threshold for calculating level of significance between
2.5
     Sargent & Lundy and Parsons?
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site. I met a number of contractors.

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3
      second?
 4
               MR. BOWLING: I am not sure I can give you the
      answer that you are looking for. I do see a difference in
      the determinations of significant levels, but I think maybe
 6
7
      the NRC staff would be better able to answer that.
               CHAIRMAN JACKSON: Okav.
               MR. BOWLING: If I could have the next slide.
9
10
      Based on the 634 responses that we have made through
11
     February 11th, and recognizing that only about 30 percent
     have been closed by the ICAVP contractor, we can generally
12
13
     conclude that the Unit 3 reviews have identified most of the
14
     design and licensing basis issues. To date, NU has
      confirmed that only seven of 634 DRs are of level 3
15
      significance, which is a design and/or licensing basis
16
17
      issue, but does not affect or operability or functionality,
     and which has been characterized to be of low safety
18
19
      significance.
20
               This slide shows the safety significance of what
     has been identified during the Millstone Unit 3 reviews and
21
     the ICAVP inspections. It is important to note that no LERs
22
     have resulted to date from any of the over 600 ICAVP DRs
23
24
      that we have reviewed to date. This provides a strong
      indicator that the Unit 3 reviews to restore conformance to
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1
      the design and licensing basis were effective in identifying
 2
      significant safety issues.
               With respect --
 3
 4
               CHAIRMAN JACKSON: What percentage did you tell me
      were closed?
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               MR. BOWLING: Thirty.
7
               CHAIRMAN JACKSON: Thirty percent.
8
               MR. BOWLING: Approximately. With respect to the
     NRC inspections, a number of potential violations have been
9
10
      identified, as well as several issues that have been
11
     determined by us to be reportable, and from yesterday, that
     has gone up to four items.
12
               These issues and potential violations also have
13
     not been of high safety significance, at least the three
14
15
     that I have on my slide. Nonetheless, as previously
16
     discussed, we have already taken both the NRC preliminary
17
     findings and the ICAVP contractor DRs into account in our
18
      self-assessments to determine the need for additional
19
     reviews.
20
               As you know, we have informed the NRC staff, in
21
     response to Question 2 of 10 CFR 50.54(f), that over 4,000
     items may be deferred to after restart of Unit 3. Question
22
23
      2 cast a wide net by essentially asking for all items that
2.4
     will not be completed prior to restart, irrespective of
      either safety or business significance. Both Mike Brothers
25
1
      and I will discuss these deferrals in our presentations, but
2
      I wanted to make clear that the items required to restore
      compliance with the design and licensing basis, as well as
3
      NRC regulations, will be completed prior to restart in key
      areas such as RSF prior to Mode 4 entry.
               For the deferred items under Ouestion 2, we will
6
7
     docket our approach for managing and monitoring the
     post-restart backlog. In our February 9th, '98 letter to
     the NRC, we committed to the Corrective Actions for any
10
     deferred level 4 DRs by the end of the next refueling
11
      outage, as well as providing periodic status on the level 4
     Corrective Actions.
12
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CHAIRMAN JACKSON: Would you speak to that for a

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13
               This slide shows the number of our deferred tasks
      resulting from both the Configuration Management Review and
14
15
      the ICAVP Reviews. The 705 configuration management tasks
      will be addressed and either completed, scheduled or
16
     cancelled based on the value added that can be provided.
17
               Examples of what is included in the deferred
18
19
     backlog are listed. About 30 percent of the 705 relate to
20
     minor drawing enhancements for labeling, pointers and
21
      designators which are not relied upon by the operator or the
22
     design engineer when using the drawing. Only a few,
23
      approximately 12 items, are related to the FSAR and reflect
      grammatical or editorial preference or applied to a
24
25
      non-safety system.
1
               Procedures constitute about 30 percent and include
2
     enhancements which do not affect functionality. However, a
3
      significant number of the procedure deferrals are
      significant, but consist of procedures, primarily,
      in-service inspection, in-service testing, that will not be
5
      required until the next refueling outage. These will be
 6
      completed prior to the next refueling outage.
               It is also worth noting that the size of the
8
9
      backlog was originally 948 and is currently 697. Our intent
10
     is to work this off as quickly as possible.
               CHAIRMAN JACKSON: Now, the numbers you are
11
12
      showing here, subsets of the, quote-unquote, "5,000 open
13
      items," --
               MR. BOWLING: Four thousand, ves.
14
15
               CHAIRMAN JACKSON: Four thousand.
               MR. BOWLING: Forty-two.
16
               CHAIRMAN JACKSON: Forty-two-hundred.
17
18
               MR. BOWLING: And Mike Brothers will discuss the
     remainder of that.
19
2.0
               CHAIRMAN JACKSON: Okay. All right. And so there
21
      are other categories?
22
               MR. BOWLING: Yes.
2.3
               CHAIRMAN JACKSON: Okay.
               MR. BOWLING: Which Mike will discuss. But I
24
     wanted to discuss those that may bear to one degree or
25
1
      another on the design and licensing basis.
               Now, with respect to the ICAVP DRs, please not
2
      that these deferrable tasks of 215 represent the DR
 3
     Corrective Action assignments, not the number of DRs being
5
     deferred.
 6
               Now, I mentioned that we would docket our approach
      to this backlog. I have several back-up slides that discuss
     that approach and our planned commitments to the backlog, if
8
9
      you would like to see those.
10
               CHAIRMAN JACKSON: We'll go on. But let me --
11
               MR. BOWLING: We are working with the staff on
12
     that
13
               CHAIRMAN JACKSON: Let me ask you a question here.
      You have a slide 62 that is further on, that says,
14
15
      "Discipline work prioritization process applied to identify
16
      items deferrable until after restart." I see the 705 on
17
      that.
               MR. BOWLING: Right.
18
19
               CHAIRMAN JACKSON: But I don't see the 215.
               MR. BOWLING: The 215, once they get their
2.0
21
      assignments, are collectively included in the first number
     there, the assignments. They are not further bend at this
22
23
      point.
               CHAIRMAN JACKSON: So they will be additive to
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MR. BOWLING: No, they are inclusive.

CHAIRMAN JACKSON: Okay. I see. All right. 2

3 Okay.

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4 MR. BOWLING: Again, none of these deferrals will

affect conformance to design and licensing basis.

In addition to restoring conforming to design and 6

licensing basis, we have also strengthened the programs

necessary to maintain the design and licensing basis going forward. This required correcting longstanding issues with

10 the Design Control, Document Control, Safety Evaluation and

11 many other programs that are required to maintain

operational changes in conformance with the design and 12

13 licensing basis.

The tier 3 portion of the ICAVP looked 14

specifically at these programs, and it is worth noting that

the NRC preliminary conclusion at the Public Exit on January 16

28th was that the Millstone change control process satisfied

10 CFR 50, Appendix B, and would serve to maintain a design 18

and licensing basis.

20 It should be noted that this NRC inspection also 21 identified several issues which will need to be corrected 22 prior to restart.

In our August 6th meeting with you, I discussed two new and innovative organizations that we have added, a Configuration Management organization for each unit and an

1 Engineering Assurance function. These organizations which

increase our confidence that future changes will be made in

conformance with the design and licensing basis are now 3

staffed and functioning for both Units 2 and 3.

5 In addition, there is a dedicated Nuclear

Oversight Surveillance of the configuration control change

7 process and we have completed most of the specialized

configuration management training for over 1200 personnel in

Unit 3 and the groups that support Unit 3. Unit 2 training

10 is currently ongoing.

> Finally, self-assessment and performance monitoring is being utilized to evaluate the effectiveness

of the Configuration Management Programs.

14 In summary, the actions that have been taken to 15 date to restor and maintain conformance to the design and

16 licensing basis, and to address longstanding safety,

17 programmatic, organization, human performance and technical

18 issues are being effective. Still, we recognize that all

19 Corrective Actions necessary to restore full compliance have

not yet been completed. However, the work completed has

21 been substantial and to acceptable standards.

22 The remaining work to support the restart

readiness is on track and will restore conformance with the 23

2.4 design and licensing basis and NRC regulations. The

25 organizations, programs and processes are also in place to

1 maintain conformance.

2 The ICAVP Reviews to date indicate that Millstone

3. Configuration Management Review and Programs have been

4 effective in identifying almost all of the issues of safety

significance, including those issues necessary to restore compliance with the design and licensing basis. In saving

6

this, I recognize that the entire Millstone organization must continue in its pursuit of a healthy respect for

regulations from both an intent and compliance standpoint,

and that we must continue to demonstrate timely and 10 effective Corrective Actions. 11 In conclusion, I do believe that our overall 12 13 Corrective Actions approach is robust and that we have the programs and organizations in place to now support the 14 conduct of safe operations. 15 If there are no --16 CHAIRMAN JACKSON: Thank you. 17 MR. BOWLING: If there are no further questions, I will turn it over to Mike. 19 20 $\operatorname{MR}.$ BROTHERS: Good morning. The purpose of my presentation today is to discuss the readiness of Millstone 21 Unit 3 to return to power operation. My assessment of 22 2.3 Millstone Unit 3's readiness is as follows: The Unit is 24 tracking as satisfactory with regard to readiness to support power operation. This assessment is made up of four broad 2.5 1 areas, physical readiness, regulatory readiness, 2 organizational readiness, and operational readiness. The start-up and power extension plan in 4 supporting organization support is satisfactory to support restart. This is currently satisfactory. The Unit backlogs 5 are tracking as satisfactory to support restart. The metrics presented on the next slides are designed to support these conclusions. One overall point to 8 make is that the slides that you have are up-to-date as of 10 February 6th, 1998. Because we are rapidly readiness to enter Mode 4, these small numbers of remaining items are 11 12 decreasing rapidly. I will give you the current numbers in 13 my presentation today. 14 CHAIRMAN JACKSON: Can I get you to slow down a 15 little bit? 16 MR. MORRIS: You're working on the same issue we 17 are working on. MR. BROTHERS: There's a contrast between me and 18 19 CHAIRMAN JACKSON: Mr. Bowling set you up. 2.0 MR. BROTHERS: Next slide. Under the topic of 21 22 physical readiness, this slide shows the number of 23 modifications which remain to support restart. As of February 13th, 1998, there were five modifications 24 remaining, of which one is working in the field. The four 25 are engineering modifications that don't require physical 2 work. 3 It should be noted that the total number of modifications required for restart that have been performed to date is 216. The five remaining modifications bring the total to 221 modifications required for restart. This does not include the potential mod required to resolve the RHS 8 MOV 610 and 611 cycling problem that we discussed earlier. 9 CHAIRMAN JACKSON: Do you have emergent mods? I 10 mean when was the last new mod added? Are there ones that 11 are popping up? MR. BROTHERS: Yes. We had a mod added on 12 13 Saturday that was associated with a DWST, demineralized 14 water storage tank uncertainty. It is not a physical mod, but it's a modification to support the calculation. So they 15 16 are coming up, and they get assessed per our PI 20 criteria 17 as to whether or not they're required for restart. This metric is tracking a satisfactory. 18 Continuing on our physical readiness, this slide 19 20 depicts our current status of online orders. The total number of work orders remaining as of February 11 is 665.

```
All of these work orders have been individually assessed as
     meeting our deferral criteria. We are on track to work the
23
24
      existing numbers down to our goals of 500 power block and 50
      maintenance rule or PRA significant work orders prior to
25
1
     resuming power operation. In my discussion of backlogs I
2
      will give a more detailed breakdown of the 665 remaining
      work orders. This metric is tracking a satisfactory.
3
               Now shifting to regulatory readiness, Marty talked
      earlier about the completion rate of NRC commitments
 6
      required for restart. To recap what he said, we currently
     have 77 remaining commitments to address prior to restart,
     none of which are overdue. The total number of commitments
     which have been addressed up to now is 691. This metric is
10
      tracking a satisfactory.
               CHAIRMAN JACKSON: And you don't anticipate asking
11
12
      to defer any of these?
13
               MR. BROTHERS: That's correct.
14
               Also under regulatory readiness this slide shows
      our current significant items list status. As of February
15
     12, 1998, we had six packages remaining to submit out of a
16
     total of 216. This list corresponds to the 86 zones in the
17
1.8
     NRC's Millstone 3 specific attachment to manual chapter
     0350. We are on track to have all the packages submitted
19
20
     for review and closure to support unit restart. We believe
21
      that the quality of packages continues to be good. This
22
      metric is tracking a satisfactory.
23
               This slide shows our current status on the 5054F
2.4
      significant items required for restart. As Marty said, as
     of February 17, 1998, we have 252 items remaining to be
1
     closed out of a total of 4,284 items. The 4,284 is
     different than the 3,876 shown on a previous slide. The
      reason for that is because of the way as Bruce characterized
3
     the net being cast as TRs come in and they do in fact become
     automated work orders, they become deferable or
     nondeferable. So that is a moving number. So we have 252
 6
      out of 4,284 items. These items are also on track to
     support Millstone Unit 3 restart. This metric is tracking a
9
      satisfactory.
10
               This slide shows our current LER submittal rate
11
      for Millstone Unit 3. The solid portion of the bars are
12
     current LERs, and the cross-hatched portions are historical
13
      LERs. This slide shows that we are below the industry
      standard of approximately two LERs per month, although we do
14
15
      acknowledge that the fact that we are in Mode 5 makes this a
     non-like-to-like comparison. In addition, the 5072 prompt
16
17
      report that went out yesterday will be an LER.
18
               The historical LERs being reported shows that our
19
      low threshold and questioning attitude continues to be
      fostered at Millstone station. As we return to power
20
21
      operation we will monitor our performance in this area.
22
     This monitoring, however, will be on a strictly benchmarking
     manner to preclude the adverse consequences of trying to
23
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The third broad topic under unit readiness is

organizational readiness. This slide shows our

organizational readiness assessment as of February 10, 1998.

This methodology complements the nuclear oversight restart

verification plan by assessing departmental readiness,

whereas the nuclear oversight restart verification plan

directly improve this indicator. This metric is

24

25

satisfactory.

An easy distinction between the two assessments is 8 9 to contrast this assessment of the corrective action which 10 addresses the departmental effectiveness of the correction action department versus the nuclear oversight restart 11 verification plan assessment of corrective action which 12 13 addresses the broader implications of the effectiveness of 14 the corrective action program at Millstone Unit 3. With the above explanation in mind, let me discuss the organization is assessed as not yet a goal but tracking 16 17 a satisfactory for Millstone Unit 3. As of February 10 the operations department is assessed as tracking a satisfactory 18 based upon training that is required for Mode 4 and not yet 19 2.0 being complete for all shift personnel. As of today that 21 should be in fact done. 22 This will be completed prior to Mode 4 and the 23 operations department will be satisfactory prior to entry 24 25 Work planning outage management is assessed as tracking a satisfactory based upon schedule adherence not yet being at our operational goal of 75 percent of planned 2 activity starting on time and 70 percent of those planned activities completing on time. Our current percentages are 62 percent and 55 percent respectively. This is not 5 expected to be a goal before entry into Mode 4, but will be a goal prior to entry into Mode 2. 8 Maintenance planning is assessed as tracking a 9 satisfactory based upon the restart backlog goals not yet 10 being a target, but all the items are tracking a satisfactory. These goals are also Mode 2 goals. 11 12 Training is assessed as tracking a satisfactory 13 based upon the fact that we have not yet completed our 14 evaluations as to the extent of the systems approach to training problems within training and the Millstone Unit 3 15 shift technical advisor program status. Both of these two 16 17 areas will be satisfactory for Millstone Unit 3 prior to entry into Mode 4. 18 19 Licensing is assessed as tracking a satisfactory 2.0 based upon the continued need to extend an excessive percentage of commitments. This is expected to be evaluated 21 as satisfactory for Millstone Unit 3 prior to entry into 22 23 Mode 4. 24 Finally, management is assessed as tracking a satisfactory based upon greater than five percent of CR ANN RILEY & ASSOCIATES, LTD. Court Reporters 1250 I Street, N.W., Suite 300 Washington, D.C. 20005 (202) 842-0034 1 evaluations taking longer than 30 days. As discussed by Dave Amerine in his discussion on CR evaluation timeliness, the average age of evaluations is less than 30 days, and the quality of evaluations continues to remain high. Increased 4 attention is being applied to this area, and we will assess 6 overall management effectiveness as satisfactory prior to entry into Mode 4. In summary, we expect all departments with the 8 9 exception of work planning, outage management, and 10 maintenance planning to be assessed as satisfactory prior to entry into Mode 4. In addition, all of the departments will 11

be assessed as satisfactory prior to entry into Mode 2.

This slide under the overall topic of operational

assesses the issue of programmatic readiness.

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```
readiness shows our current number of temporary
15
     modifications which are installed on Millstone Unit 3. Our
16
     goal is to have less than 15 temporary modifications
      installed prior to entry into Mode 2. We currently have 18
17
      temporary modifications installed, three of which are for
18
19
      outage support. We are on track to meet this goal prior to
     entry into Mode 2. This metric is tracking to satisfactory.
20
21
              Continuing under operational readiness, this slide
22
     shows our current status on control room and enunciator
23
     deficiencies. Our goal is to have less than ten
2.4
     deficiencies prior to entry into Mode 2. As of February 11,
    1998, we have nine deficiencies. This metric is
25
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                                               73
1
      satisfactory.
2
               This slide shows our current number of operator
      workarounds at Millstone Unit No. 3. Our definition of an
     operator workaround is based upon industry standard
4
5
     definition. Our goal is to have less than ten operator
      workarounds prior to entry into Mode 2. As of February 8,
      1998, we have eight operator workarounds. This metric is
8
      satisfactory.
               This slide shows our percentage of low
      significance or precursor events as a percentage of all
10
11
     human error events. It is desirable to have a high
12
     percentage of low-significance errors to total errors to
13
     allow for the implementation of corrective action at a lower
14
     threshold, thereby preventing more significant events. An
15
      example of a precursor event will be a tagging error caught
     by the individual performing the second check of the tag.
16
17
               A higher level event or near-miss would be the
18
     same error missed by the second checked but caught by the
     worker prior to commencing work. A breakthrough event would
19
      be a failure of all the barriers, the initial tagger, the
20
21
      second checker, and the worker, and then work actually being
     performed on an incorrectly tagged component.
22
23
               We have set an extremely high percentage goal in
24
      this area of greater than or equal to 95 percent of all
25
     human errors being classified as low significance precursor
1
      errors. Although in December we fell to 92 percent, in
2
     January our performance was once again at goal, and as this
      slide shows, our general performance exceeded goal for the
     last seven months.
 4
               During that same time, there have been no
      breakthrough events in which all the barriers failed or
      significant consequences have occurred. This metric is
8
      satisfactory.
              This slide shows our current errors per 1000 hours
      worked for technical and administrative procedures at
10
     Millstone Unit 3. We show an increase in both the technical
11
12
      and administrative error rate in December. As Bruce pointed
13
     out in his summary remarks, this caused us to change our
14
     assessment from satisfactory to tracking to satisfactory in
15
      the area of procedure compliance.
               January's levels returned to approximately our
16
17
     previously low historic values, but continued good
18
      performance in this area is required before we once again
19
      rate procedure compliance as satisfactory for Millstone Unit
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CHAIRMAN JACKSON: Why do you feel you have the 21 22

problems in the administrative procedures area this far down

the line? 23

MR BROTHERS: We have taken a look at that I 24

25 think what you had was the same type of thing we

demonstrated in the timeliness evaluation during the January time frame. The December period of work at Millstone Unit 3 3 was the most extensive period of work that we had for the last two years, and I think we saw the corresponding --

CHAIRMAN JACKSON: You said because of the

concentration of the work?

MR. BROTHERS: Yes, the physical work and driving to complete the integrated leak rate test in the beginning of January was compressing, and in our view was what caused things to happen.

This metric is tracking to satisfactory.

12 This slide shows an overview of our heat-up, 13 start-up and power ascension program. I have seven points to make here. 14

We have an approved procedure which governs a heat-up, start-up and power ascension of Millstone Unit 3which takes into account the fact that we have been in cold shutdown for approximately two years. We have a dedicated start-up organization which has been in place since January 12th, 1998, to provide integration and management support as the unit returns to power operation.

We currently have in place shift mentors for operations which we will expand with NU and non-NU senior reactor operators as the unit returns to service.

25 Our operating crews are visiting operating plants

1 and have observed plant start-ups during the last few 2 months.

Specific heat-up and start-up training will be provided to all operating crews. Training on modifications has been largely completed and will be completed for all crews prior to entering mode four.

Finally, the dates and the days given here are to provide a framework for planning only. We will conduct a measured and controlled return-to-power operation, taking whatever time is required. Unit management will not rush to return this unit to service. My unit and engineering directors will recommend to me and receive permission from me prior to making any mode change as the unit is sequenced back to power operation.

15 This slide shows the current numbers for the seven 16 broad areas which make up our deferrable items. I have 17 previously discussed the corrective maintenance, operator 18 work-arounds, control room deficiencies, and temp mods, and 19 Marty has discussed the configuration and management items in his presentation. 2.0

21 The remaining items, corrective action 22 assignments, corrective maintenance, and engineering 2.3 backlogs have been individually reviewed by our management 24 review team and expert panels.

The next three slides further characterize our

This slide gives a breakdown of our deferrable corrective action assignments. Roughly half of these items fall into the area of minor procedure or documentation improvements. None of these, or any of the remaining deferrable items, affect the design or licensing basis of Millstone Unit No. 3. 8 A review by our probabilistic risk assessment group has been conducted on all of these assignments. This 10 11 review first screened the 2260 items to look at only 12 maintenance rule items. As you know, the maintenance rule 13 includes systems which are risk and safety-significant, systems which are risk or safety-significant, and systems 14 15 which are in scope, but are neither risk nor safety-significant. 16 17 This screen reduced the 2260 items to approximately 1000 items. These 1000 items were 18 individually reviewed by a team in our PRA group. This 19 review identified approximately 250 items which required 20 21 additional information to verify that they were in fact 22 deferrable 23 Additional information was provided on those 250 24 items, and the final result was the identification of 11 25 items out of the original 2260 for further consideration by 1 line management. This consideration is under way. 2 I do want to point out that this review has not yet been conducted on the engineering backlog that you see in two more slides. Within that engineering backlog was the 4 5 RHS issue that we discussed earlier. That review will occur, however, prior to entering mode two. I consider this an excellent cooperative effort 8 with our organization that gives us added assurance that our 9 deferrable items are properly characterized. This slide shows our breakdown of our corrective 10 11 maintenance backlog. Approximately 52 percent of this 12 backlog is associated with maintenance rule systems, and none of these items affect system operability. 13 Let me just describe what these headings mean. An 14 15 example of a non-functional component which does not affect system operability would be a non-functional local 16 17 temperature indicator on a piping system. The system is so 18 operable with a non-functional temperature indicator. It 19 should be emphasized that this classification cannot be 20 applied to any component directly covered by technical 21 specifications or used to ensure continued operability for 2.2 any technical specification, component or system. Equipment which is functional characterization 23 24 covers minor degradation which does not in any way affect 2.5 component or system operability.

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1 The remaining 48 percent of our power backlog is 2 associated with non-maintenance rule systems, so they are 3 not risk, not safety-significant, and not in scope. This slide characterizes our current engineering deferrable items. 65 percent of this backlog is associated 5 6 with enhancements or modifications which have been screened by unit management as appropriate for future consideration, but unnecessary to perform at this time. 20 percent of the 8 engineering backlog is devoted to component level engineering in which, for some reason, an exact replacement 11 part is not available.

12 The remaining 15 percent is made up of items such as administrative actions or organizational/programmatic 13 enhancements. As I described earlier, our corrective action 14 assignment backlog has been screened for individual and 15 aggregate impact by our PRA group. 16 17 As we approach mode two, we are continuing to work 18 down all of our deferrable item areas. As such, we will 19 perform another assessment of the aggregate impact of all 20 deferrable items shortly before entering mode two. 21 It should also be emphasized that we have 22 benchmarked ourselves against recent industry experience for all the metrics I have presented today. Millstone Unit 3's 23 24 goals, when stacked against these goals, compares favorably 2.5 to units which have recently started up after extended 1 outages. 2 In summary, we believe that Millstone Unit 3 will shortly be ready to enter mode four and begin the controlled sequence which will lead us to meeting all our goals and 4 satisfying the prerequisites for mode two by late March of 1998. Millstone Unit 3 is on track to return to power operation with the unit ready from a physical, regulatory, organizational and operational standpoint. 8 Our start-up and power ascension program is in place and ready to support the unit. Our backlogs are at 10 11 reasonable levels and have been screened both internally and 12 externally, from an individual and aggregate impact standpoint, to fully support our plans to be ready in all 13 14 aspects by late March of 1998 to return to power operations. 15 If there are no questions, I'll turn it over to 16 Dave Goebel to discuss nuclear oversight's current 17 assessment. COMMISSIONER DIAZ: Yes, if I might go back to 18 19 your figure on Table 62 of slide 62, I'm sure that Mr. Morris saw this and understood very well every one of these 20 items, but I didn't. And I know that now you have gone and 21 explained it. This figure, when I saw it yesterday, you 2.2 know, created some concerns because, you know, we started 23 with a series of 6000 issues, and then we classified them. 24 25 I would recommend that, you know, when you get back in here, you take this and do like what you did in your quick presentation, you know, like saying there are only 11 of 2260 items that are being considered. That narrows the 4 scope down significantly. If not, it looks like an insurmountable task to be done, you know. And clearly, you know, there are differences in here that need to be reviewed 6 to determine the risk significance, and obviously you have 8 been doing all of those things, and I hope you keep doing 9 it. But it's not obvious from this table when you look at 10 it. And I strongly recommend it, please. You know, 11 separate them, even when you put them in a table that, you know, it's not clear at all what the meaning of these things 12 13 14 MR. BROTHERS: Thank you. 15 MR. GOEBEL: Good morning. Today I would like to present the current status of the nuclear oversight restart 16 17 verification plan for Unit 3. The data is shown on this 18 slide. 19 I would like first to review what the slide depicts. There are 21 issues; each is listed on the 20 21 left-hand side of the slide. These were taken from the 16 in the summary book which we provided you, and selected

other issues which I feel are important.

One item in the latter category is materials, and

25 another is engineering.

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in this area.

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Attributes are evaluated for each issue, and those
attributes are derived from the NRC's manual chapter 0350,
INFO guidance, in particular 96-006, and other relevant
documents. The attributes are evaluated throughout a
two-week period and the summary scores derived. A roll-up
of the scores in a given area resulting from this look is
then related to a color, either red for significant, yellow
for improvement needed, or green for satisfactory. Those

10 In general, for an issue to change color, two
11 evaluation periods at the new level are needed.

colors are then displayed on this slide.

Since our last meeting, there is leadership,
corrective action, configuration of management, regulatory
compliance, conduct of operations, and environmental
monitoring have turned green, while procedure quality and
procedure adherence has gone from green to yellow, as
problems once fixed have resurfaced, and this has been
discussed previously.

You will note a green dot adjacent to the emergency preparedness area. If all goes well, this area will turn green this week. At the last evaluation two weeks ago, it had exceeded the limit to move into the green area.

There are three key areas which are in yellow that are impacting our moving forward. There are others that are yellow, but today I am comfortable with their status. The

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three areas which require increased management attention are procedure quality adherence, training, and work control and planning, and those have been discussed by other gentlemen at this table earlier.

I would like to discuss each area as each is clearly defined activities which require improvement. It is my opinion that if these activities are completed, these areas will achieve a green status and be ready for restart.

9 The first is procedure quality, procedure
10 adherence. Procedure quality has improved since the last
11 briefing, but adherence issues have resurfaced. Those areas
12 which require increased management attention include
13 increased coaching by the first-line supervisor. You recall
14 the last time I stated that increased first line supervision
15 time in the field is the most beneficial change we can make

Another area requiring attention is providing feedback to all affected workers on problem areas, and the third is holding people accountable for adherence problems.

Additionally, we need to prioritize and complete
the remaining procedures which are required for restart. I
don't see this as a problem, but additional work must be
done in this area.

24 In the area of work control and planning, which is 25 another area requiring increased management attention, we

la adhanana and Mila Don

1 need to improve our schedule adherence, and Mike Brothers 2 has mentioned that.

The primary sources of schedule adherence
difficulties are work package quality, work release start
times, work prioritization, and schedule development
assumptions.

Among the issues in this latter category -- that is schedule development assumptions -- we need to improve 8 the coordination between operations and the various work 10 groups in establishing a schedule. Additionally, we need to obtain management support 11 and accountability for accomplishing this schedule as it is 12 13 laid out. 14 In the training area, the training area is one of 15 great importance to the organization and has been discussed previously, as the others have. 16 17 Increased attention is required in several areas. Complete the qualification of systems engineers prior to 18 final system verification of readiness for start-up must be 19 2.0 done. We need to ensure that the system's approach to 21 training is functioning for Unit 3 as it was designed. We need to ensure that items from the corrective action plan 2.2 23 which resulted from the shutdown of training are properly 24 closed, and on a longer term basis we need to verify that 25 the proper staffing skills are present within the 1 organization. 2 As I said, these three remaining areas provide the biggest barrier to near-term success, and additional effort is needed to ensure that success. 4 Subject to any questions, I'll pass it back to 6 Bruce for his closing remarks. CHAIRMAN JACKSON: Tell me again about the 7 8 emergency preparedness area that's been tracking steadily 9 yellow. 1.0 MR. GOEBEL: Right. At the last session, which 11 --and I hold these sessions -- the people do the work on a 12 daily basis. We have a roll-up on a two-week basis, and at 13 the last roll-up two weeks ago, it will be reviewed again today and tomorrow, but two weeks ago, with a score that 14 15 could drive it into the green area as being a 70 cut-off, it received a score of 80. So for a two-week period preceding 16 that, it was essentially green, but we have an internal 17 process where we don't change the color because we want it 18 19 to sustain and hold; we just don't want a fluke up or down. 20 So if it goes well this week, then I expect it to sustain and stay at that level, and my information from my people 21 22 who are doing this week are the indications that it will 23 stay there, it will go up. I need to wait and get the 24 score. 25 CHAIRMAN JACKSON: Okav. 1 MR. KENYON: Chairman Jackson and Commissioners. 2 we appreciate the opportunity to brief you regarding our 3 progress. Certainly as a result of recent events and this meeting, we recognize the need to deal with the RHS valve 4 5 cycling issue. We will do that. We will look at it for its implications, and we certainly understand that we need to test that against what it means for the credibility of our deferred items list, and we will do that. We also have what I have referred to as the 10 oversight event playing out, and I need to get the remaining information there, but I want to assure you that I will take 11 12 appropriate action in due course and with every intention of 13 demonstrating that this organization can and will handle, with careful deliberation, even of a serious event such as 14

this, and this really should set the stage for an

understanding of how this organization -- it's not that we never have an event, but it's when we have one, we know how

15 16

18 to handle it and handle it responsibly.

19 We have an understandable concern on your part on

the nature of the backlog, and Commissioner Diaz, we

21 understand the need to make our -- whereas we are

comfortable, we have a responsibility to portray the 22

23 information in a way that's clear as to what's outstanding.

24 We need to do it in a way that makes a clearer statement as

to its relevance, its significance, and we will do that.

Having said all that, I think we are close. We have a manageable amount of work remaining. I think that performance indicators show that, and certainly I look forward to our next briefing, and the work force and the leadership team is starting to get excited after a long

haul.

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Mike, do you want to add?

MR. MORRIS: I would just close with one comment,

Chairperson Jackson. You asked a question about whether we 9 10

were surprised on the amount of effort that it's taken to

get to where we are today, particularly with the license and 11

design bases. I think we are impressed with what it has

taken, deeply impressed with what it has taken, and by that 13

I mean to say that we understand what it would be like, I

think, to be on the other side of this gap again, and I 15

think this team is prepared, from the comments that you have

17 seen today and the data that you have seen today, that if

you believe with us that we are ready to come back on line,

we understand what it is going to take to stay there, 19

20 because we never want to have to do this again. It is an

impressive amount of work.

22 Thank vou.

23 CHAIRMAN JACKSON: Well, thank you.

24 Normally I would wait till the very end to make

some comments to you, but I will, and they are in the way of 25

reinforcing some things that in fact Mr. Kenyon has already spoken to.

You know, we have a responsibility in making our

decisions with fairness, and that creates a very narrow line that we end up having to walk, and many times the question

is raised of, well, if any other unit or licensee in the

country had the degree of scrutiny that you folks have had,

8 would not these kinds of issues have turned up then? And

wouldn't we find some lack of conformance with design or

licensing basis issues? Would we not find some of the kinds

11 of employee concerns, difficulties, et cetera, that the

licensee has had? And, you know, I tend not to get into 12

those discussions, and I will tell you why: fundamentally

14 because we can't do that, because we are where we are, and

that's what we end up having to deal with in the end. And

even though most of you who are the incumbents in the 16

position today were not in these positions when at least 18 this latest episode began, the organization got to where it

is because of its historical problems and historical 19

20 patterns and the longevity of those problems, and a history

21 of perhaps pencil-whipping problems away, and in some sense

you come to a point where in a way that something that you

23 are struggling with is the issue of if we can't have

24 confidence relative to the little things, it raises

questions about the confidence with respect to big things. 25

And that's what the results in the end have to demonstrate,

that it is a comprehensive approach to dealing with things,

such that, yes, at any given time there can be items that pop up, items that are unresolved. 4 The obvious confidence one is going to have is particularly the things that have the greatest safety 6 significance are addressed, but that is undergirded by an approach and a philosophy and a way of doing things that says one aggressively goes after issues and gets to the root 1.0 of them, and therefore, in looking at how deferred items are 11 evaluated, how they are addressed, what you do ends up 12 having to be evaluated in that regard. It's not -- it may 13 not make you happy, but in the end it does come to that, and that's why the recent issue -- and we all recognize that it 14 has to be fully evaluated and all of its implications drawn 15 16 out -- but why it is troubling with regard to everything I 17 have laid out. Because of its implications for self-discovery of problems, robustness of evaluations. And 18 19 so it is very important that it get reviewed, not just for the issue-specific clarification or, yes, if it's a Part 21 21 issue, then we are going to have to deal with that from the 22 broader perspective. 23 But you have to look at it from both its generic 24 implications, but it's important that you give everything, 25 whether it's 4200 or 5000, whatever the number is, a 1 complete scrub, obviously with respect to safety significance. That's the base line. 2 3 But one really does have to ask the question of if there are historical items, then you are kind of on the spot 4 as to say why, particularly if they are in a 5 safety-significant system, but just generally because of what I said. If it's historical, why should you continue to defer it? And I'll say more at the end. And I appreciate the comment -- I think it's implicit in something you said, 10 Mr. Brothers, about having the total review of all of the engineering items. And so the question is, as you go 11 forward to do that, then you have to ensure that you don't 12 13 miss things like this, because we are where we are. MR. MORRIS: We fully understand that. We will 14 tighten the mesh on our screen and rerun. We understand 15 16 your point. Thank you. CHAIRMAN JACKSON: Thank you. 17 18 We will now hear from Sargent & Lundy. 19 As is structured, we are going to hear from 20 Sargent & Lundy, and then from Parsons Power. 21 MR. ERLER: As we have done before, Sargent & 22 Lundy will provide some lead-in to cover both overall review 23 process and then the details on Unit 3 review that it completed. I am Brian Erler, the project director for the 24 25 ICAVP for Unit 3 for Sargent & Lundy, and Don Schopfer, the 1 project manager for the review team. Don will present the 2 summarv. MR. SCHOPFER: Good morning. 3 The first slide we have is again it's sort of a refresher of the structure of the ICAVP, and I'll go through these rather briefly. I know you have seen them before. The structure of the ICAVP is broken down into three tiers as required by the Commission paper 97-003. Tier 1 is the system verification to confirm that the system 10 selected meets the licensing and design basis, and system 11 functionality. Tier 2 is the accident mitigation system review to 12 13 determine that those systems that design parameters meet the requirements in the FSAR.

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15
               And Tier 3 is the programmatic review, or the
      review to verify that configuration control processes have
16
17
      not introduced changes into the licensing and design basis.
               CHAIRMAN JACKSON: Now you can always depend upon
      me to do this. If I look two slides down the road at these
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20
     tiers, you marked them complete. Now when you say that, do
     you conclude that you have made the verifications that are
21
     laid out in each of these tiers?
22
23
               MR. SCHOPFER: We have.
24
               CHAIRMAN JACKSON: Or does it mean something else?
               MR. SCHOPFER: It means that we have completed the
25
     discovery process and the reviews, and have identified all
1
     of the discrepancy reports, preliminary discrepancy reports
      from those tiers. Now the resolution of those preliminary
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 4
     DRs has not been completed yet, but the review process and
     the discovery process and identification of any
 5
     discrepancies is complete for those items.
 6
               CHAIRMAN JACKSON: Okay. So discovery, review and
8
      identification of the DRs --
9
               MR. SCHOPFER: Correct.
1.0
               CHAIRMAN JACKSON: -- is what you mean when you
11
     say complete?
12
               MR. SCHOPFER: Correct.
13
               CHAIRMAN JACKSON: Okay. Thank you.
14
               MR. SCHOPFER: The scope of the Tier 1 system
      review is as shown here. It lists the 15 maintenance rule
15
16
     group 1 and 2 systems that comprise our grouping of four
17
      systems which we have used the shorthand designation at the
18
     bottom of the page in bold that describes service water,
19
      RSS, HVX, which we termed the ventilation systems,
20
      supplemental leakage collection and release system is what
     SLCRS stands for, and the aux building ventilation
21
22
      safety-related portion of the aux building ventilation and
23
     the emergency diesel generator room ventilation system. And
     then the DGX system consists of the diesel generator and all
24
25
      the associated auxiliary systems supporting the diesel
1
      generator and the electrical 4160 volt distribution system.
2
               As four, I'd like to mention that the scope of the
3
      review for these systems also includes the review of the
4
      electrical power feeds from each component in these systems
 5
      up to the first motor control center, and then a load path
      review from that motor control center to the diesel
6
7
      generator. Also the I&C; signals that interface with these
      systems from other systems are included in the review
9
      process.
10
               CHAIRMAN JACKSON: I see.
               MR. SCHOPFER: And any supporting systems from a
11
12
     mechanical standpoint also.
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               CHAIRMAN JACKSON: So let me ask you a question
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      about the RSS. What is your assessment of the difficulties
     that the licensee has had with the recirculations crisis?
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               MR. SCHOPFER: I am not sure I understand the
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17
     question, Chairman Jackson.
               CHAIRMAN JACKSON: Well, it seems that it has
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19
     taken a long time to kind of, you know, come down the line,
20
     pin the problems down, get, you know, comprehensive fixes,
      et cetera. But I don't want to sav it, I want vou to talk
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23
               MR. SCHOPFER: Well, there have been a number of
      issues and problems associated with that, and Mike Brothers
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CHAIRMAN JACKSON: So you basically agree with his 1 2 assessment? 3 MR. SCHOPFER: Well, I agree with -- you asked what the problems were, and there were a number of those. And it has -- there have been a number of modifications made

to this system after we started the review. And, in fact,

as you will see on the next slide, there are some additional

modifications that the staff has asked Sargent & Lundy to

look at that have just been completed or are being

completed. So -- which came out of some of the earlier

reviews of the previous mod. So it has been a continuing 11

process for the RSS system in particular.

13 The basic system review in Tier 1 and the Tier 2 and Tier 3 reviews, as we discussed a few minutes ago, is 14 15 complete from the standpoint of discovery being complete, 16 and the Discrepancy Reports being issued. The two items 17 remaining from -- associated with Tier 1 is these additional 18 recirculation spray systems modifications that were given to us for review in late November of '97 and we have completed 19

that first set of reviews. 20 21 We also have these additional four modifications

that the staff has asked Sargent & Lundy to look at, and those were just completed this past week or the week before.

We are in the process of receiving those packages, that 24

25 calculations, those modification documents and completing

1 that review. We expect to get those documents this week and we will complete our review in about two weeks after we 3 receive everything.

CHAIRMAN JACKSON: Was the RSS system -- RS system operable before these modifications?

6 MR. SCHOPFER: I guess -- I don't know the answer to that. They are modifications that are improvements, certainly, to some of the cycling of the valves that were 8 occurring in the changes they made. The other changes go back to a direct injection system into the vessel that was 10 one of the original design and sort of undoes one of the 11 12 changes, and I think the licensee had determined recently 13

that that was an unreviewed safety question, so there were

14 significant issues.

I guess I don't know the answer.

16 CHAIRMAN JACKSON: I am going to ask the staff 17 that, so I am giving you a heads up.

18 MR. SCHOPFER: The second issue of items that are 19 being completed is the Tier 1 Corrective Action

Implementation Review, and that is there was a Corrective 20

21 Action Review as part of the Tier 1 system of some 1500

22 Corrective Action documents. We selected and screened and

came up with about 250 to 260 specific Corrective Action 2.3

documents that the staff wanted us to look, I'll say at more

25 detail in the implementation, not just the Corrective Action

plan, but what the results of those Corrective Actions were in terms of, again, engineering activities, analyses, 3 evaluations, calculations and those sorts of things.

We are still obtaining some of those documents from Northeast Utilities and expect those this week and next 6 week and, again, have about a two week completion date after

The final report, as noted here, is already in 8 9 preparation. We expect to be able to issue that final report approximately the end of March, based on the current

we receive those documents.

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schedule of completion the resolution of the Discrepancy
     Reports that we have issued and NU's comments earlier about
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13
      their schedule for completing their responses to us.
               Just a brief, again, lesson or reminder of how our
     Discrepancy Report process works with the -- with both
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16
      Sargent & Lundy and Parsons, and then I will address the
17
      comment -- the question you made about the difference
     between Sargent & Lundy and Parsons, threshold, perhaps, if
18
     I can.
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               CHAIRMAN JACKSON: All right.
               MR. SCHOPFER: The NRC staff and Sargent & Lundy
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22
      and Parsons have developed this common process for reporting
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     the findings identified during the review process. An
     individual reviewer initiates a preliminary DR. It
24
      undergoes an internal review process within Sargent & Lundy
25
1
      or Parsons. Upon completion of that process, the
     preliminary DR is issued to Northeast Utilities, the NRC and
2
      the NEAC, the state of Connecticut agency, and is posted to
4
     the web site
               Northeast Utilities evaluates the preliminary {\tt DR}
      and submits a response, and we review that response and
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7
      either return it with additional comments or questions, or
      close the DR. That DR --
               CHAIRMAN JACKSON: Let me ask you a question.
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      Closure -- is closure based on the response, or if it
11
      involves a physical non-conformance or something that has to
      be done, is it closure after that which has to be done is
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13
     done? Is that what closure --
14
               MR. SCHOPFER: Closure, in our process, means that
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      we have reviewed their response, accepted their Corrective
16
      Action plan and, in some cases, we do wait to see that
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     action, if it is an engineering action. If it is a
     significant engineering action, I guess I should say. We do
18
19
     not, if they say they are going to correct the FSAR, we do
20
     not hold that open until they correct that FSAR. That will
      go into their Corrective Action process and make sure that
21
      that happens. But if they need to make a calculation change
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23
     or a drawing change, or a licensing document change, and
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      they commit to doing that, that allows us to close the DR
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      from the standpoint of the ICAVP.
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               The response from NU is expected to include
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      whether the condition identified as a discrepancy, whether
      they had previously identified this issue in their
3
     Configuration Management Plan, what action has been or will
      be taken to correct the deficiency -- the discrepancy,
     whether they agree with the significance level that we
 6
      established and assigned to the DR, if there is any impact
      on plant hardware and, in the case of generic or
      programmatic issues, the response should also address the
10
     extent of condition.
11
               The DR may be closed based on acceptable response,
      and it is categorized as a confirmed DR, meaning that they
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13
      agree that it is discrepancy that they had not previously
14
      identified, or it may be identified as something that they
     did previously identify during their process, or it may be
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16
      considered non-discrepant based on additional information,
17
      technical information that has been provided by NU and we
      agree with that.
18
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CHAIRMAN JACKSON: Now, looking ahead again, your

last slide indicates that your preliminary conclusions include that you have -- it was judged that calculation

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control and radiological calculations are weaknesses. So
     does that mean that besides individual DR closures, that you
23
      actually trend and assess the more programmatic weaknesses?
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25
               MR. SCHOPFER: Yes, we do.
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               The next slide does show the significance level,
      the DR significance levels that have been assigned, created
 3
      by the NRC staff and both Parsons and Sargent & Lundy use
      this criteria to assign significance level. To address your
      comment, the question that you had earlier, is there a
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 6
      difference in threshold, I will answer to the extent that I
      can in terms of how we do it.
               The criteria is not so specific between level 3
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 9
      and level 4 that there are -- there can frequently be some
10
      level of opinion whether something should be a level 3 or
      level 4. The criteria between level 1 and level 2. or
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12
     between a level 1 and level 2 versus a level 3 is more
13
      clear, and I think that is probably where your comments were
14
     directed, is at level 1 and 2 versus level 3 and 4, but that
15
      is a guess on my part.
16
               The level 1 or 2 means that the system, based on
17
      the finding, the discrepancy, was not able to perform its
18
      design function, either one train or both trains. And our
19
     approach has been, if we are able to determine that via the
      review and say that, then -- then we classified it as such.
20
21
      If we were -- if there was a discrepancy that needed
22
      evaluation by NU to determine the extent, we classified it
      as level 3 with words to, in the Discrepancy Report, asking
23
24
      them to evaluate this so that the final significance level
25
      can be determined, and that's the approach that we have
 1
      taken.
               If we are able to say it doesn't function, from
 3
      our review, we don't do the calculations or evaluations to
      determine the final outcome, that is NU's responsibility and
      we ask them in our DR to evaluate that so that a final
 5
 6
      significance level can be determined.
               CHAIRMAN JACKSON: So if it requires some
      additional analysis, you essentially -- the default position
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 9
      is level 3?
              MR. SCHOPFER: Correct.
10
              CHAIRMAN JACKSON: And so the ultimate
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12
      categorization depends upon this additional analysis?
13
               MR. ERLER: They must complete the analysis in
14
      order to establish a significance.
15
               CHAIRMAN JACKSON: And then as part of your
16
     closure, you go back and evaluate that that analysis has
     been done, and that the proper -- and you concur that the
17
18
     level assignment is what is suggested?
19
               MR. ERLER: That is correct.
               CHAIRMAN JACKSON: That you accept it or reject
2.0
21
     it, is that correct?
22
               MR. SCHOPFER: Yes.
               CHAIRMAN JACKSON: Okay. But the default position
2.3
24
      is level 3. I didn't know that, that's interesting.
               MR. SCHOPFER: That's the position that we have
25
     taken to the processes.
 1
              CHAIRMAN JACKSON: And you are going to speak to
 3
     how you do that, when you --
               MR. CURRY: Yes, ma'am, I can't make a comparison,
     but I can talk about how --
 5
 6
               CHAIRMAN JACKSON: Please.
               MR. SCHOPFER: The next slide shows the Summary
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Table of the Discrepancy Reports that have been issued. The
     first column is the number of -- total number of Discrepancy
10
      Reports that have been issued, broken down by the
      significance level. These numbers will be different, or are
11
12
     different than the numbers you saw on the Northeast
13
     Utilities slide because they are taken as of a different
14
     date. These are as of Monday of this week. I think the NU
     numbers were from a different date.
15
16
               The second column is their responses and, as Mr.
17
      Bowling said, these numbers change now very rapidly. Their
      number is well over 700 now, and our number of responses in
18
19
     the system and evaluations are going up. Also, as the next
20
     slide will show. But NU, as of this date, had responded to
      approximately 75 percent of the DRs that had been issued as
21
      of that date, and we have evaluated approximately 40 percent
22
23
     of those submitted.
24
               We have been utilizing face-to-face meetings and
      conference calls in accordance with established protocol to
25
     resolve the more difficult technical Discrepancy Reports and
1
2
               CHAIRMAN JACKSON: What does resolution involve?
3
4
               MR. SCHOPFER: Resolution, if their response
      doesn't address all the issues that I laid out as what we
     expect on a response, if they have a technical response that
6
     our reviewers don't agree with, or don't have sufficient
      information to agree with, then, usually, a conference call
      or a meeting will be held to lay out those concerns, from
9
10
      our standpoint, for them to provide any responses to
11
      questions that we may have about their response.
12
              We had a series of meetings last week at Millstone
13
      where we did it by topic, where the HVAC filter unit, we had
14
      a number if discrepancies written on that, and we had a
      meeting that discussed about 12 or 15 individual DRs on that
15
      subject, so that we had the right people there and provided
16
17
     the information, and the basis for why we thought it was a
     particular issue, not in compliance with a requirement, and
18
      they gave their response to that.
19
20
               CHAIRMAN JACKSON: So let me make sure I
     understand the statistics. You say that NU has responded to
21
22
     75 percent of the DRs, and that you have reviewed 40
23
     percent.
24
               MR. SCHOPFER: Forty percent of --
25
               CHAIRMAN JACKSON: Of the 75 percent. So we are
      talking 30 percent?
1
               MR. SCHOPFER: Thirty percent of the total.
2
               CHAIRMAN JACKSON: Of the total. Okay.
 3
               MR. SCHOPFER: The next slide is a graph of the
      response, the submittal and response rate, and for the
      people in the -- here are the copies that were handed out.
6
     Unfortunately, the color section, the yellow doesn't show,
     but it does on the screen here somewhat, and that shows the
     fact that NU has turned up the response rate dramatically on
10
      the Discrepancy Reports, as you can see, and our evaluation
11
      rate will follow this curve with about a two week lag to it,
12
     for us to receive the information, put it into our system
13
     and put it through the review process.
14
              CHAIRMAN JACKSON: So you are saying you are going
     to be able to keep up with this, with NU's response rate
15
16
     with about a two week lag?
17
               MR. SCHOPFER: Pretty close. We have started
18
      turning it up, as you can see from the blue line, and this
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19
     week it has gone up dramatically also. So I expect we will,
20
     ves.
21
               We expect to resolve the majority, the great
22
     majority of the DRs by about the first week, or early in the
      second week of March, that's our current plan based on NU's
23
      comment to complete the response by the end of February.
24
25
               A summary of the closed or confirmed Discrepancy
      Reports is provided next. Of the 211 DRs that have been
     accepted and closed, there have been 111 confirmed DR
3
      discrepancies. Forty-two were previously identified by NU
      and 58 were considered non-discrepant after their response
 4
      and Sargent & Lundy's review of that response.
5
              Of the 111 confirmed discrepancies, five have
 6
      categorized as level 3 and 106 as level 4. There are also
8
     four pending discrepancies and I should note that pending is
9
     that we have accepted their Corrective Action Plan, they
10
      agree that it is a discrepancy. We have accepted their
11
      plan, but there is some engineering document that we want to
12
      see before we call it closed, an evaluation, a calculation,
13
      some action that they needed to take that we want to see
      that result before we close it again because the
14
15
      significance level may be affected by the results of that.
16
     But their Corrective Action Plan on resolving it was
     satisfactory.
17
               CHAIRMAN JACKSON: Can you talk about the most
18
19
     significant of the level 3, the five level 3 confirmed
20
     discrepancies?
21
               MR. SCHOPFER: I'll talk about all eight, because
22
     there three pending --
23
               CHATRMAN JACKSON: Okav
24
               MR. SCHOPFER: -- and I have some information
25
      about that, or at least seven of the eight. They are in
                                                          105
      various areas, and you can see on the next slide, actually,
1
     how they are broken down. But those, we had one under
2
     Design Control, one level 3 under Design Change Process,
3
      that was basically a use of unverified information and
      procedures, and NU accepted that and has made a procedure
5
 6
      change to make sure that they don't have the ability to use
      unverified information in procedures. That was a level 3
     from a procedural Design Control standpoint.
8
               There were three or four calculations; four shown
10
     here. One was an embedment plate that was overstressed
11
     because the loads were -- certain loads were not considered.
12
     There was a calculation for ventilation in the pump house
13
     for the service water pumps that did not consider two-pump
      operation. That one is actually in the pending category and
14
15
      they're doing that calculation to see that it would or would
16
     not have been more significant.
17
               There was a calculation on auxiliary building
18
     ventilation system filter unit bypass leakage calculation
19
      that did not consider everything that it needed to consider.
               There was two in the corrective action areas that
2.0
21
      there we judged their corrective action not adequate,
22
      meaning that they're on different issues, but their
2.3
      corrective action process was not complete or not adequate.
     One issue dealt with control of vendor information used in
24
25
     procedures, and the other was the environmental
     qualification of terminal blocks.
1
               And the one that shows up as component data on the
```

3 next slide was an auxiliary building ventilation fan

basically not meeting its design and licensing equipment

requirements for vibration design. Those are at least I believe seven of the eight 6 that we've identified as Level 3s. The slide that shows the again confirmed and pending DRs that should add up to the 215 are distributed 9 10 across various configuration control processes and products 11 as we've identified here and categorized them at the 12 beginning of the job. 13 The notable trends here are that the number of 14 discrepancies in calculations, there have been minor drawing 15 errors, and I'm looking more at the -- we've talked about the Level 3s. I'm talking more to the numbers of Level 416 17 discrepancy reports on calculation issues, drawing errors -minor drawing errors -- differences between the design and 18 as-built configuration, which is categorized or called 19 installation implementation. Licensing documents would be 20 21 FSAR inconsistencies, handling of corrective actions, and components not in compliance with their design specification 22 23 or their licensing commitment. That's the type of what 24 these have shown for the confirmed DR so far. 25 And the last slide I have is the preliminary 1 conclusions slide that you mentioned earlier. Based on -and I've termed this preliminary conclusions because we in 2 fact have looked at about a third of the -- or a little less, perhaps -- of the responses, and conclusions really won't be drawn until we've completed that DR resolution process, but that based on the numbers of findings that have 6 remained Level 3 are determined to be significant to Level 3. we have a preliminary conclusion that the effectiveness of their CMP was relatively good in determining design and 10 license basis deficiencies because of the minimum number of 11 those things that we have found based on the total number of 12 things that we've in fact looked at. 13 The conclusions about configuration management 14 going forward, we have reviewed their design control manual and we think it will be able to provide configuration 15 control in the future. There are some aspects of their 17 modification process that we have discussed with NU and the 18 NRC that could be improved, but they have not resulted in 19 issues that were unacceptable, that are improvements or 20 enhancements to their process. 21 Programmatic issues that have jumped out at us are 22 calculation control, and we've discussed these issues again 23 with both the NRC and NU. They have a -- and they have 2.4 programs in place to deal with that, but we found it very difficult to deal with the calculations, what is the 25 1 calculation of record for a particular system and aspect of a system, what -- which calculations used as input to others and superseding of calculations that may have been used as 3 4 input. So there are a number of issues like that related to calculation control. And we also found some issues in general with 6 radiological calculations that were not of the same quality and control of the calculations as the other calculations 9 done recently on site. The radiological calculations are a 10 little bit more difficult to deal with. They have not shown 11 as good of conformance to the licensing basis. So those are two of the issues that again we have discussed with NU and 12 13 the NRC

CHAIRMAN JACKSON: Thank you.

MR. CURRY: Good morning, Chairman Jackson.

14

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16
               CHAIRMAN JACKSON: Good morning.
               MR. CURRY: My name's Stan Curry, and I'm the
17
      project director for the Unit 2 ICAVP, and with me today is
18
19
      Eric Blocher, my deputy. I'm very pleased for this
      opportunity to talk about Unit 2.
20
21
               As you see from the agenda, we'll get -- on the
22
      third bullet there we'll get down to discrepancy reports,
23
      and I'd like to cover those issues that have been previously
24
      mentioned at that point.
25
               Our Tier 1 review is continuing as similar with
      Sargent Lundy, we have four major systems have been selected
1
2
      which also encompass significant numbers of additional
3
      systems which are touched as interfaces or as major
4
      components that have been added to define a single system.
5
               Our high-pressure safety ejection, today we have
6
     finished our discovery in following on with the definition
     given previously. That means that we've finished our
     discovery. We're finalizing the discrepancy reports to
8
      submit on that particular system. And then the corrective
10
      action review is indeed ongoing in that particular area.
               The auxiliary feed water system is on hold as
11
12
      we've indicated there, and we expect based upon NU's
13
     information to start receiving some information to allow us
     to restart our efforts in that particular area in the
14
      mid-March time frame.
15
16
               CHAIRMAN JACKSON: Now there were changes made to
      that system. Is that the --
17
              MR. CURRY: There were additional calculations
18
19
     that needed to be redone. In order to establish the design
20
     and licensing basis and to make it efficient for our reviews
21
      it did not seem prudent to proceed until those were
22
      complete.
2.3
               On the two other Tier 1 systems we are proceeding
      in the design and licensing basis. As indicated there our
24
25
     work is in progress and we're going through the normal
     process of a Tier 1 inspection on those two systems.
1
               Our Tier 2, which again is the accident analysis
2
3
      review, we've gotten our critical design characteristics
      approved. The 29 events are in review. As you notice, the
     major bullet there that we will reevaluate the ten events
5
      that Northeast Utilities is currently working on to
      reanalyze. We have a process that will allow us to work
8
      around those for a period of time. Those other analyses are
9
      not affected by the reanalysis work.
10
              And then we have a process which allows us to take
     placeholders but will require us to come back and validate
11
12
     once they have completed their calculations on Tier 2.
13
               Our Tier 3 proceeds. There is the one outstanding
     area of vendor manuals as far as the selection of the sample
14
15
     that we will be reviewing. The other is progressing well
      and we're 75 percent complete with that tier.
16
              Discrepancy reports. Just to review what's
17
      currently on the slide before I proceed for some other
18
     comments. As you see, similar in definition, 57 discrepancy
19
2.0
     reports are closed, are confirmed pending, and of the 39
     that have been confirmed as discrepancies, and again those
21
22
     are in a manner that we have agreed with the licensee on the
2.3
      particular issue and the action that will be taken. Closed
      indicates that we have seen their final piece of paper that
24
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would allow us to agree, and if they've not yet implemented

action portion of our review. To follow up on the earlier questions that have to 3 4 do with the elevated discrepancy reports. Mr. Bowling has already made a remark about the actual number that we received, and I'd like to discuss a little bit the process 6 we've developed to utilize on what we call elevated DRs, anything that are in Category 3, 2, or 1 in particular, with 9 specific emphasis on 1s and 2s. 10 And as you can imagine, most of these are not just 11 open a book and find the issue. These were fairly complex 12 issues. And because of that we and the licensee and the 13 staff and the State of Connecticut have developed a process 14 by which we sit down and discuss any one of these to make sure that everyone understands what those issues are. 15 This process was not in place before we issued the 16 initial elevated DRs. We are now using those. And to 17 the -- I think to the credit of the licensee they're 18 bringing significant amounts of staff to those meetings to 19 20 make sure that they understand those issues before they 21 begin to respond. 22 Again, these issues in many cases are driven out 23 of the accident analysis reviews rather than simply the 24 systems that they have across the plant implication, so it's not just a single system issue. And I have seen from them a 25 1 very sincere desire to understand and make sure that we 2 fully appreciate what their response will be and why we can accept that response. 3 In many cases again as we've discussed in the past 4 there are -- this is an older plant, and sometimes you reach the point where the data provided does point you to an 6 elevated definition or would be met, and then further 8 research may turn up additional information which may allow all parties to agree that indeed the situation is 9 10 nondiscrepant. And clearly that's some of the things that 11 we're seeing coming out of those. CHAIRMAN JACKSON: Do you have the comparable 12 13 default position in terms of --MR. CURRY: We do, but I should tell you, I mean, 14 15 we certainly do, and I think Mr. Schopfer adequately discussed that. When it's indeterminate, we indeed send it 16 17 back to them and indicate at this point without us redoing 18 calculations and that's not part of our scope. It is 19 indeterminate what's the exact level, but we believe it is 20 as a minimum of three. 21 Now again sometimes the information provided does meet the criteria to identify it at that time as a potential 22 Level 1 or Level 2. As I've mentioned, sometimes that 23 2.4 potential goes away when more information is provided. But you deal with the information that you have at the time when 25 1 the licensee provides all information that he thinks he has 2 to address that issue. As we've seen in the past, there was one particular item that we were unaware and did not receive 3 an LER from the licensee. Upon receipt of that LER, that starts helping us understand where they are on that 6 particular -- resolution on that particular item. 7 These meetings have resulted on the elevated DRs and they have taken the opportunity to go back and, on three of those particular items, do a further evaluation and they 10 will be shortly getting back to us as far as what they have 11 seen to evaluate the potential, whether or not there is a

12

problem or not.

13 Again, I would like to emphasize that they have shown significant commitment to me as far as making sure 14 they were bringing the right people to the table. There has 15 been no lack of their dedication in that area. 16 17 Were there other questions about DRs that -- our 18 schedule, as we show here, we have coordinated these dates 19 with the staff to make sure that, as we currently have 20 indicated here, that they will support the staff's 21 inspection of our work on both Tier 2 and Tier 3 as well as 22 in Tier 1 and the corrective action review. 23 CHAIRMAN JACKSON: So given the date you have for the HPSE, does the high-pressure safety injection system 24 25 meets its design and licensing basis? 1 MR. CURRY: At this point, our discovery is 2 complete. We obviously have several outstanding DRs related 3 to that system, and you have to wait until you get those CHAIRMAN JACKSON: Okav. So you're waiting for 5 6 what? MR. CURRY: We have several outstanding discrepancy reports on HPSE and also on the corrective 8 actions to be performed on HPSE, and there's a significant 9 10 number of corrective actions the licensee has identified that they will be performing. 11 CHAIRMAN JACKSON: Okay. So this feedback process 12 13 and the re-review has not been done. MR. CURRY: That's correct, yes, not yet been 14 15 done 16 Our current target, based upon our current 17 knowledge of what we're doing and certainly the Northeast 18 Utility's current schedule, providing us the information that I discussed earlier, some of the design basis 19 2.0 calculations and the accident analysis, based upon those schedules and a process, a normal proceeding of resolutions 21 for discrepancy reports and corrective actions, we look to 22 2.3 have a July the 10th date for our final report. CHAIRMAN JACKSON: Okay. 24 Any questions? Yes? 25 115 COMMISSIONER McGAFFIGAN: The Level 1's that you 1 tentatively identified, five Level 1's, what is the nature 2 of some of them? Apparently NU has responded on three of them, and you're presumably looking at their response, but 5 what is the nature of some of these Level 1's? 6 MR. CURRY: Eric, would you like to characterize those for me? MR. BLOCHER: Right. The elevated DRs that exist 8 to date, one of the Level 1's deals with water intrusion 9 10 into the diesel fuel storage tank that would render both trains inoperable. There is another Level 1 DR that deals 11 12 with the RC flow, RPS trip set point being in a 13 non-conservative direction and certainly would violate or potentially violate a fuel integrity limit. 14 There is an issue dealing with enclosure building 15 16 integrity, both from a pressurization and overall leakage 17 point of view. The fourth one deals with steam generator narrow 18 19 range level trips point dealing with potential cause of drawing inconsistency resulting in an over-leak, 2.0 21 under-conservative trip set point. Then there is the fifth Level 1 DR deals with the 22 23 containment sump valves, potential vulnerability to pressure binding and pressure locking, therefore rendering them

Our one Level 2 DR deals with accumulator tank, an

2 air supply that provides backup air to safety injection

- 3 discharge valves, and the mounting of that accumulator tank 4 is in question.
- MR. CURRY: I again would say that, again, those
- 6 are potential DRs at this point.
- 7 CHAIRMAN JACKSON: Anything else?
- 8 Thank you very much.
- 9 We'll now hear from Little Harbor Consultants.
- 10 Let me see if my Commissioners would like a break.
- 11 No? Keep going?
- 12 [Pause.]
- 13 CHAIRMAN JACKSON: Good morning.
- 14 MR. BECK: Good afternoon.
- 15 CHAIRMAN JACKSON: It is afternoon. It was
- 16 morning when we started.
- 17 MR. BECK: I'm John Beck, president of Little
- 18 Harbor and team leader of the independent third-party
- 19 oversight program at Millstone, and I have with me this
- 20 morning -- this afternoon John Griffin, who is a deputy team
- 21 leader, and Billie Garde, a member of our oversight team.
- 22 Our presentation today will be very similar to
- 23 that we gave in December. Since then, we have presented an
- 24 interim report to Northeast Utilities and the NRC staff in a
- 25 public meeting on January 27 at Millstone. Today's

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- 1 evaluation of NU's success criteria was conducted earlier
- 2 this week and is thus very current and represents the
- 3 consensus opinion of the LHC team.
- 4 Before we report on the NU success criteria, I
- $\,\,$ $\,$ would like to briefly discuss the evaluation system we use
- 6 to measure each of our safety-conscious work environment
- 7 attributes. While our evaluation system which we discussed
- 8 in December remains the same, we have modified this
- 9 particular slide to more clearly define our criteria.
- 10 Specifically, we have indicated that a green evaluation
- 11 means world-class performance. Previously this was labelled
- 12 "meets expectations" and left unsaid that the expectations
- 13 referred to were meant to represent ideal performance or
- 14 world-class performance.
- 15 CHAIRMAN JACKSON: This is not a re-normalization
- 16 MR. BECK: It is not a re-normalization.
- 17 We have also added a line to show, as we discussed
- 18 in December, what level of performance we consider to be
- 19 acceptable for restart. These changes, as well as the
- 20 addition of positive and negative factors which I will get
- 21 to in a moment, were made based on feedback we received from
- 22 members of the public following the December meeting.
- 23 Our oversight plan defines twelve attributes of
- 24 the safety-conscious work environment, and we have mapped
- 25 these twelve attributes into the four success criteria

- 1 utilized by Northeast Utilities to measure the
- 2 safety-conscious work environment. We evaluate each of our
- 3 twelve attributes, discuss the facts gathered and observed
- 4 $\,$ in our work, and then strive to reach a team consensus on
- 5 the evaluation for each of those attributes.
- 6 CHAIRMAN JACKSON: And do each of those attributes
- all have to be above the line individually in order for you
- 8 to make an acceptable determination?
- 9 MR. BECK: For all practical purposes, I would say

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10
     yes, although there could be an exception. I don't believe
      there is at this time, and certainly we would point it out
11
12
      and justify why, if it didn't quite meet the line, that
13
      would be the case. But I don't believe it is as we stand
     here today
14
               CHAIRMAN JACKSON: So I want you to, again, to
15
16
      state for the record, when you said earlier it meets
17
      expectations, you were saying implicit in that was meets
18
      world-class expectations, so it's not a re-normalization?
               MR. BECK: For the green rating, that's correct,
19
20
      it is not a re-normalization.
21
              Within roll-up, our twelve attributes into the
22
      four NU --
2.3
               CHAIRMAN JACKSON: Excuse me.
24
               COMMISSIONER DICUS: On this slide in question,
25
      what would yellow declining mean? Put the slide back up a
 1
      minute. You've got these different categories and you show
      whether it's improving or declining, but what if you had a
      yellow declining? Is that the same thing as yellow
 4
      negative?
               MR. BECK: No. If it were a middle vellow or a
 5
 6
      neutral yellow declining, that would not meet our acceptance
      criteria for restart of the unit.
               COMMISSIONER DICUS: Okav.
 8
               MR. BECK: It has to be at least neutral yellow
10
     holding steady. If it were declining, that would not meet
      our criteria
11
12
               CHAIRMAN JACKSON: So minus means it's declining
13
      and plus means it's improving?
14
               MR. BECK: No. The arrow indicates improving,
15
      steady, or declining.
               CHAIRMAN JACKSON: Did you get the answer to your
16
17
      question? Okay.
               COMMISSIONER DICUS: Close enough.
18
               CHAIRMAN JACKSON: Okay.
19
               MR. BECK: We're trying to keep a very close
2.0
21
      finger on the pulse.
22
               We then roll the --
23
               CHAIRMAN JACKSON: Let me back you up --
               MR. BECK: Sure.
               CHAIRMAN JACKSON: -- since you're showing
25
                                                         120
     performance indicators.
               MR. BECK: Yes.
 2
 3
               CHAIRMAN JACKSON: What does plus mean relative to
      the arrows at the bottom of the page? What do plus and
     minus mean?
 5
               MR. BECK: Plus -- the absence of a plus or minus
 6
      or the middle yellow and the minus yellow are three
8
      gradations in that yellow range, plus, neutral or minus.
9
     The arrows indicate a trend --
10
               CHAIRMAN JACKSON: I see. Okay.
               MR. BECK: -- at that gradation level.
11
12
               COMMISSIONER McGAFFIGAN: Where is yellow minus
13
      improving? Yellow minus with an up arrow, is that above or
     below the line?
14
               MR. BECK: Below.
15
16
               COMMISSIONER McGAFFIGAN: It's below. Okay.
               MR. BECK: You could look at it, although we try
17
18
      to stay away from it, as A, B, C, D and F.
               As stated earlier, the information we're about to
19
20
      present was developed by Little Harbor in meetings held
      earlier this week and represents our consensus.
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The first of the success criteria is to
23
     demonstrate a willingness to raise concerns. We have
24
      evaluated this criterion as neutral, yellow and improving,
      or an up arrow. We consider this criterion to be acceptable
25
1
     for restart and it represents an improvement from our last
2
3
               This slide shows the five Little Harbor attributes
      which will appear as Slide 29 in your handout package, which
      roll up into the first of these NU success criteria. And
 6
      you can see by examining those five attributes, each of them
      would meet the acceptance criteria at this point, if you
      looked at them on an individual basis.
8
               This next slide lists the factors that we
      considered in our evaluation. For example, the event that
10
     occurred in January in Unit 3, mechanical maintenance, the
11
12
      second bullet in the left hand column, made both the
      positive and the negative lists. It was negative because of
13
      the perceptions about the event.
14
               CHAIRMAN JACKSON: Why don't you give us a quick
15
16
     summary?
17
               MR. BECK: Sure. In this particular case, a
18
      change in a manager's assignment was being made, and it was
     reacted to very vigorously by the people who were
19
20
     responsible to this individual, and by others in the
21
      maintenance department, as they felt that it was an
22
      inappropriate thing to be done. They had a lot of trust in
23
     this individual and they, frankly, did not want to see him
2.4
     reassigned to other duties.
               The action was taken on New Year's Eve day and it
1
      was quite a strong reaction on the part of the individuals
      affected by it, and the potential existed for a chilling
      effect. But -- and those certainly were negative aspects of
3
               On the positive side of the equation was the fact
     that the employees involved and affected by it were willing
6
      to stand up and question the decision by management which
      they believed was wrong for the company. Management's
9
      reaction to that challenge was relatively swift, and by the
10
      end of the first week in January, the decision to reassign
11
     this individual was reversed. A new understanding was
     reached about the standards expected by people in the
12
13
      maintenance department by all, management and the employees,
     and it had, frankly, a very rapid and happy ending.
14
15
              Moving on to the second criterion, and this is to
16
      demonstrate that issues are being effectively resolved by
17
     line management.
18
               CHAIRMAN JACKSON: Excuse me, what is the ERB
19
      review process?
20
               MR. BECK: Executive Review Board is a board the
21
      company has set up to review any potentially adverse
22
     personnel action being taken at the Millstone site, whether
     it be an employee or a contractor. It is at a high level
23
24
      and it considers all aspects of potential adverse employee
25
      or contractor personnel actions and is intended as a final,
1
     high level review, and they have been catching a number of
     circumstances that might have not been properly handled.
               It has also been, not only is a catch for these
      things, but it has had, I think, an effective --
 4
      effectiveness in precluding things that might have happened
      in another day. It is serving its purpose.
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The second criterion is to demonstrate that issues
      are being effectively resolved by line management, and this
 8
      corresponds to the Corrective Action Program at Millstone.
 9
10
      We have evaluated this criterion as neutral, yellow and
      improving. This evaluation shows an improvement since our
11
      December meeting, and we find the criterion to be acceptable
12
13
      for restart, as we did in December, and it corresponds to
14
      our Attribute No. 10
               We will begin next week a detailed review of the
      effectiveness of the Corrective Action Program. Our review
16
17
      so far has been more of a programmatic nature. Do they have
      all the essential elements that you would expect to see in a
18
19
      Corrective Action Program?
2.0
               Criterion 3 is to demonstrate that the Employee
21
      Concerns Program is effective. Our evaluation of this
      criterion has also improved from December. You may recall
2.2
23
      in December we evaluated this criterion to be unacceptable
24
      for restart, based on seemingly high levels of
25
     dissatisfaction by users of the Employee Concerns Program.
               Since that time we have interviewed over 30
 2
      employees who have recently used the program and determined
      that 83 percent of those interviewed would use the ECP again
 3
      should the need arise. These results compare favorably with
      evaluations conducted independently by Northeast.
 5
               Our current evaluation is neutral, yellow and
      improving, which we find to be acceptable for restart. We
      will be conducting additional reviews of recent Employee
 8
      Concerns Program activity over the next few weeks to
 9
10
      determine the effectiveness of Corrective Actions which are
11
      intended to address and resolve the negative factors on this
12
      slide.
13
               CHAIRMAN JACKSON: Do you -- if you interview
14
      employees who have used the Employee Concerns Program, and
      you have asked them if they would use it again, do you ask
15
      them if -- is that the question they are asked, or are they
16
      asked if they felt the issue they raised was satisfactorily
17
18
      resolved?
               MR. BECK: The specific question that we developed
19
20
     for this contained about 10 or 11 questions, if I recall.
21
      We asked them to characterize the concern and then walked
22
     them through the entire process from the day they walked in
23
      to the Employee Concerns. How were you treated? Did the
24
      intake person understand your concern? All the way down to,
      Where you satisfied with the resolution? How were you
25
 1
      treated during the process? Et cetera. So we got a pretty
      comprehensive review.
 2
 3
               COMMISSIONER DICUS: You said this was done by
 4
      survey?
 5
               MR. BECK: No. this was done by individual
 6
      contact.
               COMMISSIONER DICUS: Individual.
               MR. BECK: We contacted in excess of 30 people
 8
      that had recently used the program.
 9
10
               COMMISSIONER DICUS: Okay.
               MR. BECK: And talked to them directly.
11
               COMMISSIONER DICUS: So it is 83 percent of?
12
13
               MR. BECK: I don't -- we were struggling this
      morning to remember the exact number. It was over 30, I
14
15
      just don't recall the exact number.
               COMMISSIONER DICUS: Out of how many potential
16
17
      people did you have to interview?
               MS. GARDE: When we first did the survey -- I do
```

- not mean survey instrument. When we first called people,
- 20 that covered over a hundred files, which were the older
- 21 files that we had looked at, files that were open when we
- 22 first arrived, and then began to be developed. This group
- 23 would come out of about 60.
- 24 COMMISSIONER DICUS: Okay. But -- all right.
- 25 Because you are showing a change in the trend, and I am

- 1 trying to figure out where that came from.
- 2 MS. GARDE: It is from a different group of
- $3\,$ $\,$ people, so that the last group that we called were from
- 4 people who had open concerns within, I think since --
- 5 MR. BECK: Six months.
- 6 MS. GARDE: Yeah, within the last six months.
- 7 COMMISSIONER DICUS: Okay.
- 8 MS. GARDE: May.
- 9 CHAIRMAN JACKSON: Did you go back at all to the
- 10 earlier group?
- 11 MS. GARDE: In the second batch. If their case
- 12 was closed during the new time period, yes, they would have
- 13 been within that second group.
- 14 MR. BECK: The final NU success criterion is the
- 15 ability of management to recognize and effectively deal with
- 16 alleged instances of harassment, intimidation, retaliation
- 17 or discrimination, including potential chilling effect on
- 18 the Millstone work force.
- 19 In December we evaluated this criterion as a
- 20 significant weakness, red, and unacceptable for restart.
- $\,$ 21 $\,$ $\,$ Our current evaluation still classifies this criterion as a
- 22 significant weakness and unacceptable for restart.
- 23 Since December, we have seen some improvement in
- 24 this area and have indicated this improvement by an up
- 25 arrow. We believe that this issue continues to be the most

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- significant challenge for Northeast relating to the safety
 conscious work environment.
- 3 The next slide shows --
- 4 CHAIRMAN JACKSON: Before you go to the next
- 5 slide.
- 6 MR. BECK: Yes.
- 7 CHAIRMAN JACKSON: What do you mean when you say
- 8 inconsistent handling of HIR&D; allegations and 50.7
- 9 analysis?
- 10 MS. GARDE: I completed a review of all of the
- 11 files that raised a potential 10 CFR 50.7 issue up through
- 12 the first week of December, and what I found within those
- 13 files was somewhat varied approaches by the different
- 14 investigators that were handling the cases in terms of what
- 15 they -- how they individually approached a particular
- 16 allegation of retaliation. And that was one of our findings
- 17 in our last presentation, and I believe the ECP is working
- on trying to bring some consistency so that any file and any
- 19 investigator will work to the same criteria in reaching
- 20 determinations in that area.
- 21 CHAIRMAN JACKSON: Does guidance exist for them?
- 22 MS. GARDE: There's not written guidance now, but
- 23 $\,\,$ I hope that there soon will be.
- 24 CHAIRMAN JACKSON: So there's no written guidance
- 25 for the investigators?

```
CHAIRMAN JACKSON: And what about training for the
 5
 6
      investigators?
 7
               MS. GARDE: They are going to get training in that
      area. They have already received quite a bit of training in
 8
      other areas. This training has to be further developed.
 9
10
               CHAIRMAN JACKSON: Okay.
               MR. BECK: The next slide shows the five Little
11
12
      Harbor attributes which roll up into the Northeast Utilities
13
      criterion.
14
               As I just mentioned, we have seen some improvement
      in the criterion. If we could have the next slide? And
15
     this one represents some of the positive factors and events.
16
17
      The executive review board, which we discussed a few minutes
18
      ago, has been especially effective in preventing events from
      occurring, and in recent weeks, Northeast has made
19
20
      significant progress toward resolving several longstanding
21
      issues of concern with the Quality Control Department.
22
              On the next slide, however, you will see that
23
      there continue to be negative high profile events and
24
      untimely resolution of some incidents. We have been
      following closely management's handling of the recent event
25
 1
      and oversight, noting both positives and negatives. Our
     next report will contain conclusions about this ongoing
 2
      matter. Bottom-line composite of these factors result in
 4
      our judgment that considerable effort is still required in
 5
      this area
               CHAIRMAN JACKSON: Tell me about this management
 6
      oversight relationship. This is -- what are the problem
 8
               MR. BECK: This springs from a relationship
      between maintenance and the quality control inspectors that
10
11
      dates back a couple of -- three months at this point, and
      it's an issue that frankly festered for some time until it
12
     received more management attention. I think it is
13
14
      definitely on a trend of improvement at this juncture, but
      it does represent a significant area for improvement.
15
               Billie, you might want to add to that.
16
17
               {\tt MS.} GARDE: I think that there was a lack of
18
      understanding between the maintenance organization and the
19
      quality control-quality assurance department that led to
20
      some interdepartmental behaviors that we wouldn't expect to
21
      see at a site in a restart mode. I think, frankly, the
22
      maintenance event that John referred to earlier probably
23
      brought some of those things to the forefront and is one of
24
      the areas that they have been addressing more recently and
     more aggressively.
25
 1
               CHAIRMAN JACKSON: Do you systematically go back
 2
      and check or monitor the progress? For instance, when you
      were talking about the HIR&D; and you indicated that there
 3
      wasn't the kind of guidance that there needed to be, you go
      back to see if, in fact, that has happened or that it's
 5
      scheduled to happened? I mean, how --
               MR. BECK: Yes.
 8
               CHAIRMAN JACKSON: You do a systematic backtrack?
               MR. BECK: Yes. We have a -- we have developed a
     matrix of all recommendations that we've provided to date
10
11
      and we status each of those recommendations periodically.
12
               CHAIRMAN JACKSON: Okay. Very good.
               MR. BECK: John would like to respond to a
13
14
      question you raised earlier with Northeast, Chairman
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investigated.

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MR. GRIFFIN: As I understand, the question was
17
      whether Little Harbor periodically samples the data that
      leads into their performance indicators. The short answer
18
      is yes, we do. We either independently verify the data
19
      itself or we conduct independent data collection to verify
20
21
      or validate that information. With probably two exceptions
22
      on the corrective action program, as John indicated, we had
2.3
      -- well, we had looked at that program in the fall, we have
2.4
      not looked at it over the last several months, so we haven't
25
      looked at the most recent data. We will begin a
 1
      reevaluation on Monday and we will sample that data at that
     time.
 3
               The other variance from our agreement with their
      performance indicators would be in the area pertaining to
      the fourth performance criteria of the HIR&D;, and as I think
 6
     Mr. Amerine had indicated, there are ongoing discussions
      over the classification of concerns that fall into the HIR&D;
      area and into those that fall to the potential 50.7
      violations. We're still discussing those.
 9
               CHAIRMAN JACKSON: Why don't you go on.
10
               MR. BECK: That's it. That concludes our
11
12
      presentation this morning. We did not intend to go through
      each of the LHC attributes. If there are no further
13
      questions --
14
15
               CHAIRMAN JACKSON: Actually, I do have a few. Let
16
      me look at the safety-conscious work environment attribute
17
      status. Now, the licensee actually performs six-month
18
      surveys. Do your independent surveys indicate similar
19
      things, and how extensive are your surveys?
20
               MR. BECK: If you recall, we did an extensive
21
      structured interview session last June and July.
22
               CHAIRMAN JACKSON: Right.
               MR. BECK: We are going to finish tomorrow
23
24
      interviewing 298, I believe, individuals at the site who
25
     have been selected to be representative of the site
      population and asking them the same questions that were
      asked last summer, so we'll have another data point
 3
      available. Those results will be compiled next week and our
      presentation prepared, and it will be given March 3rd at the
 4
     Millstone site in a public meeting to NU management and the
      NRC staff. The results will speak for themselves. I
 6
      haven't done the evaluation yet, so I have no predictions to
 8
      make.
 9
               CHAIRMAN JACKSON: Let me look at attribute 3 --
10
               MR. BECK: Sure.
               CHAIRMAN JACKSON: -- having to do with senior
11
12
      management providing training to all managers and
13
      supervisors, et cetera.
               Has Little Harbor commented on the adequacy of
14
15
      this training?
16
              MS. GARDE: Yes, Chairman. First, we commented on
      the inadequacy of the training that they had in place when
17
18
      we first arrived and they made a number of changes within
      their ongoing training programs, additional pieces that they
19
20
      put into their programs.
21
               They also added -- actually specifically developed
22
      and presented in the late fall -- training to all their
      supervisors and managers on 10CFR 50.7, what that means, how
23
24
      to comply with it, how it's implemented. That training
      covered three different training programs, so there were
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actually three different sessions that people attended.
              They have also had a number of sessions off site with all
  2
               their mid-level managers that included training in that
  4
               area. So we have watched it, we have observed it, and it
               has been continual since I would say early fall.
  5
                                      CHAIRMAN JACKSON: Now, if I look at attribute 4,
               and that's the slide you have where you talk about negative
               factors, you seem to be primarily event driven. Do you have
  8
               other ways that you arrive at the conclusions that you
               reach?
10
11
                                       MR. BECK: Yes. Structured interview specifically
               probes that area, and there will be results available March
12
               3rd on that subject that will add to our specific
13
14
               event-driven observations.
15
                                       CHAIRMAN JACKSON: And that -- but in arriving at
               this yellow steady, at the moment, that is event based?
16
17
                                     MR. BECK: That's correct. That's right.
18
                                       CHAIRMAN JACKSON: Okay. So it could go up if the
19
               survey is different?
20
                                       MR. BECK: That will certainly have an impact in
21
               this area.
                                       CHAIRMAN JACKSON: Okav. You mentioned and we had
22
23
               talked earlier about the maintenance and oversight
              relationship.
                                       MR. BECK: Yes.
25
  1
                                       CHAIRMAN JACKSON: Does any other group have
               interface problems with oversight? Have you looked at that
  2
                                       MR. BECK: We certainly looked at it, and right
  3
               now, I can't -- I don't recall any -- remember any issues
               that would rise to the level of the oversight QC maintenance % \left( 1\right) =\left( 1\right) \left( 1\right)
  5
                                       CHAIRMAN JACKSON: Have you looked at it in a
  8
               systematic way?
                                      MS. GARDE: We haven't looked at it in a
               systematic way other than when we're looking at the problem
10
11
               areas, the identified problem areas, which looks at why you
               have a problem area. Other than that, it should come out in
12
               the context of the structured interviews because there's
13
14
               questions specifically designed to look at that.
                                   CHAIRMAN JACKSON: Looking at Attribute 5, you
               talk about the lack of trust. I mean, in your view, how can
16
17
               this best be regained, and is there an aspect, in fact, to
               the "isolate the cynics" memo that is undergoing review,
19
               that, in fact, pointed to trying to regain a team
20
               atmosphere?
21
                                       MR. BECK: There will be input from the structured
               interviews on this whole question of lack of trust. And,
22
23
               certainly, there are aspects of the oversight event that
24
               will impact it.
25
                                       CHAIRMAN JACKSON: But I am saying, are there
               aspects -- are you going to be looking at what may be
               positive as well as negative aspects of that event?
  2
                                       MR. BECK: Yes, we are. Yes, we are.
                                       CHAIRMAN JACKSON: Okay. Let me look at Attribute
  5
               6. In your view, is this an area then where the licensee
               has made a significant amount of progress?
                                       MR. BECK: Yes. Absolutely. Without question.
                                       CHAIRMAN JACKSON: Okay. Attribute 7, this
  8
               positive recognition, the catch of the day. Is this a
              formal recognition process?
10
11
                                       MR. BECK: Yes, it is.
                                       CHAIRMAN JACKSON: Okay. All right. Attribute 8,
12
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looking at incidents leading to allegations of HIR&D; rarely
      occur and management is timely ineffective in taking action.
14
15
               What do you look at most strongly? Is it -- are
      you looking at number of allegations or the effectiveness of
17
      the Corrective Action primarily? I mean where do you put
18
      the weight?
19
               MR. BECK: The simple answer is both. It is
      quality of the issue, or the seriousness of the issue that
2.0
21
      may or may not have occurred. The frequency, is it
22
      declining as the work force and management become more
2.3
      sensitive to these very important relationships. And as far
24
      as management's timely addressing of the issues, that is
25
      certainly a matter of importance to us.
               Billie, do you want to?
               MS. GARDE: I think -- I agree with what John
 3
      said, and I also would like to say something we said the
      first time that we came here, and that is that it is
      unrealistic to expect that there will never be an incident.
      This is a human work force, it's a dynamic work force. You
 6
      could have a supervisor start today that didn't attend any
      of the training, and one of the things we want to make sure
 8
 9
      is that that training is captured for new supervisors.
              So, although we certainly would not expect to see
10
11
      increasing incidents, there should be levels to catch it,
12
      both below and above, and we are seeing that catch system
13
      develop. They may happen. Incidents like this can occur.
      And that is where you have to weigh and balance. And,
14
15
      actually, an incident could occur that could have a timely,
16
      effective, immediate response and would only show up on our
17
      plus side because of that reason. So it really is a balance
18
      between numbers and why it occurred and how it is handled.
19
               CHAIRMAN JACKSON: And my last question for you is
      on Attribute 8, where you talk about a negative factor being
20
21
      manpower. What does this mean?
22
               MS. GARDE: There was an incident involving some
      contract employees who -- employment was terminated. The
23
24
      issues that they raised a concern about were not 10 CFR 50.7
25
      issues, that is, they didn't deal with nuclear safety, but
 1
      they did deal with personnel safety issues. They were let
      go. The issue went to -- came to the attention of the
 3
      Executive Review Board, which originally approved the
 4
      terminations, mainly because they believed they were going
 5
      to go right back to work in another position. They were not
 6
      for-cause terminations.
               CHAIRMAN JACKSON: Okay. So what you really mean
      is Human Resources or personnel policy?
 8
               MS. GARDE: It was a personnel -- no, not Human
 9
10
      Resources. Personnel safety.
               CHAIRMAN JACKSON: Personnel safety.
11
12
               MS. GARDE: That is the issues that they raised.
13
      In any event, they were immediately put back on the payroll,
     but it took over six weeks to really come to closure on the
14
      issue in a satisfactory way. So, although the people didn't
15
16
      lose salary, the condition festered for too long, and it
17
      should have been resolved more promptly. And that grew and
18
      it caused it a bigger problem than it needed to be.
              CHAIRMAN JACKSON: Okay. Any other comments or
19
20
      questions?
21
               [No response.]
22
               CHAIRMAN JACKSON: Thank you very much.
23
               MR. BECK: Thank you.
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will take a five-minute break. 25

1 [Recess.]

MR. CALLAN: Chairman, we will be on our scheduled 2 start time, but as you have repeatedly admonished the Staff

that when it comes to Millstone, we should be immune to

5 schedule or pressure, so in that spirit, we will --

CHAIRMAN JACKSON: That just shows if you tell 7 people things, they will use it against you.

8 MR. CALLAN: That's right.

[Laughter.]

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MR. CALLAN: With me at the table I have the 10 11 Director of the Office of Special Projects, Bill Travers, 12 and he has with him also his three deputies; Wayne Lanning,

who is the Deputy Director for Inspections; Gene Imbro. who is the Deputy Director for ICAVP Oversight; and Phil McKee,

15 who is the Deputy Director for Licensing and Employee

Concerns Program Oversight. 16

17 And with that, Bill Travers will be our principal presenter. Bill. 18

MR. TRAVERS: Good afternoon. 19

20 Could I have the first slide, please? I am just

21 going to jump in.

The staff is continuing to carry out its oversight 22 23 responsibilities at Millstone using the guidance listed in

24 Manual Chapter 0350, and, as you know, we used this guidance to develop a Millstone Review Plan that we submitted to the 25

138

Commission in 9703 and it was within just a few months of my 1 2 becoming Director of the special organization.

We have for each Millstone Unit developed a

Restart Assessment Plan which documents the issues that the

staff has identified required resolution prior to coming

before the Commission with any restart recommendation for

any of the units.

8 This slide sort of lays out the structure of those

Restart Assessment Plans. Importantly, some of the key

orders that have been issued to date in ICAVP and Employee 10

11 Concerns Program, Safety Conscious Work Environment, are

12 encompassed within this Restart Assessment Plan for the each

of the three units. The Restart Assessment Plan also 13

14 identified the specific NRC inspection reports that are

being used to document closure in specific issues, so it is

really a good template for assessing the progress that we

17 have been making in our reviews to date.

As I have done in previous meetings, I will

emphasize a continuing commitment that I think we are 19

meeting, and that is a commitment to make this process as

21 open as we possibly can. We have coordination with the

public in the context of evening meetings that we hold every 2.2

23 four to six weeks. We have been holding most of the

24 technical meetings and exchanges that we have in the

licensee and the contractors in the area of Millstone, and

we have been keeping organizations like the state chartered

Nuclear Energy Advisory Council apprised of the status of

our activities.

In fact, as it regards to NEAC, we have a 4

5 Memorandum of Understanding with them, they are actually

participants as observers in many of our ICAVP activities, and we have recently expanded that MOU to include our 40500

Corrective Active Inspection and the Operational Safety Team

Inspection as well, if they choose to participate as

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10
      observers.
11
              Before turning to a more detailed discussion of
12
      status, I would like to make just a few comments about our
13
      overall assessment of the licensee's recovery program and
      their progress. As I indicated in December, the staff's
14
15
      overall assessment is that NU is continuing to make progress
16
      in its broad scope effort to fix problems at Millstone. The
17
     NRC staff has been observing and documenting in NRC
18
      inspection reports, licensee progress in essentially all of
19
      the elements of our Restart Assessment Plans for Units 3 and
2.0
21
               Although we have closed and documented specific
22
      items identified in those Restart Assessment Plans, we have
      not vet completed our evaluation of any of the key
23
      programmatic issues that are the foundation of some of the
24
      key problems at Millstone. And before we can complete our
25
      action in areas such as Corrective Action Program, licensing
 1
 2
      design basis conformance, Employee Concerns, quality
      assurance oversight, the licensee must determine for itself
 3
      that their Corrective Actions are complete and effective.
 5
      As such, our program is one that is necessarily back-ended
 6
      and several important inspections, some of which have been
      postponed by the licensee, must be completed before we can
 7
 8
      finish our review in these programmatic areas.
 9
               Currently, at Unit 3, of a total of eight team
10
      inspections, five are complete, one is in process, and two
      are planned. In a few minutes, I will present a detailed
11
12
      listing and schedule of the remaining NRC staff inspections
13
     related to Unit 3.
14
               Fundamentally, of course, our program is focused
15
      on a thorough evaluation of the issues, and on no particular
16
      schedule. We recognize that it is the issues and their
      resolution that drive our examination and closure.
17
18
               Can I have the next slide, please?
19
               An important element of our Restart Assessment
     Plan is the evaluation of improvements to the Employee
20
      Concerns Program and Safety Conscious Work Environment, and
21
22
      the Commission has heard a number of pieces of information
23
      relative to the status of Little Harbor's review and the
24
      licensee's own appraisal of its status.
25
               The staff's plan for assessing these improvements
 1
      in these areas was provided as an attachment to our December
 2
      Commission paper, and that plan presents the staff's
 3
      methodology for determining if the licensee has made
      sufficient improvements in their Employee Concerns Program
 4
 5
      and Safety Conscious Work Environment to support a restart
 6
      at Millstone.
               The plan purposely makes a distinction between
      Employee Concerns Program and Safety Conscious Work
 8
 9
      Environment. The Employee Concerns Program refers
10
      specifically to the licensee's organization and programs
      that address concerns raised by employees outside the normal
11
12
      line organization. Safety Conscious Work Environment is a
      broader term and that refers to a work environment in which
13
14
      employees are encouraged to raise concerns and where
15
      concerns are promptly reviewed and resolved, with timely
16
      feedback to the originator.
               The October 24th, 1996 Order issued by the
17
18
      Director of NRR required Northeast to develop and submit to
19
      the staff a comprehensive plan for reviewing and
20
      dispositioning safety issues raised by its employees. That
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21
     Order also required Northeast to propose for NRC approval an
     independent third-party oversight program organization to
22
23
      oversee implementation of Northeast's plan to assess
24
      licensee performance.
               The Order further required that the third-party
25
1
      organization, once selected, develop and submit for NRC
      review and approval, an oversight plan. Currently, all of
2
      these elements of that Order have been completed.
 4
               Consistent with the Order, Little Harbor, as you
5
     know, is charged with important oversight responsibilities,
      and the staff, as part of its overall conclusions regarding
     the adequacy of ECP and SCWE, expects to utilize input for
8
     LHC as a significant element in our decision making.
               CHAIRMAN JACKSON: Do you have your own criteria
     against which you assess LHC's evaluations, as well as any
10
11
     either incidental or direct inspections that you do, or
12
      reviews that you do?
13
              MR. TRAVERS: Yes, we do. I was just about to
14
      emphasize that, in addition to our reliance, as I just
15
      mentioned, on Little Harbor and its expertise and findings,
      we are carrying out rather extensive activities on our own.
16
17
      independent of Little Harbor, but certainly related to what
18
      they are doing.
              Those activities, Chairman, as you point out,
19
20
      include an assessment of Little Harbor's effectiveness,
21
     because, obviously, in order to rely on what it is they are
22
     doing, we need to come to an independent conclusion on their
23
      effectiveness.
24
              But what I have listed on the bottom section of
25
      this Slide No. 3 is just a summary listing of the activities
     that the NRC staff is carrying out in connection with these
1
2
      issues at Millstone. And they include, very briefly,
      continued staff on-site monitoring of both the utility and
      the Little Harbor activities at Millstone.
 4
5
               They include recently completed team evaluations
      of Employee Concerns Program and Safety Conscious Work
      Environment. That team evaluation also was directed
8
     directly at an assessment of Little Harbor and its
      effectiveness. We are continuing right now to carry out
      another inspection, the 40-500 that is focused on a broader
10
11
      concept of corrective action programs. We have included an
12
      additional team member to look at SCWE and ECP as it
13
     directly focused in the area of corrective action. So we've
14
      added a specific team member to augment that inspection team
15
     to -- sort of in recognition of the importance of having an
     adequate corrective actions program and the effect that
16
17
      could have on the safety environment and the employee
18
     concerns program.
               CHAIRMAN JACKSON: Let me just ask again, though,
19
20
      are your criteria in that area LHC's criteria, or do you
21
     have additional -- any additional criteria that you --
               MR. TRAVERS: I'm going to ask Phil to address it,
2.2
23
24
               CHAIRMAN JACKSON: Okay.
               MR. TRAVERS: We have laid out in our plan that we
2.5
1
     submitted to the Commission basically our own performance
2
      measures and criteria.
               Do you want to --
               MR. McGEE: I'll just add that in our plan we
4
5
     identify for the most part their process and programmatic
      issues that we're looking at, and we've done that as part of
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But also when you use that to compare that with 8 9 Little Harbor, but we've identified some additional measures and issues that we want resolved in a status that we want to see for acceptance for restart, and they do mesh with Little 11 12 Harbor's criteria in a way, and also the licensee's 13 14 And that includes items such as looking at their 15 corrective action program, and as we mentioned the 16 additional members seeing that issues raised by individuals 17 in that program are resolved, are resolved promptly, and so 18 forth. And also elements in the employee concern program 19 also, timeliness of case resolution. And when we do that, we're looking at what the licensee has found, and also 20 Little Harbor's assessment in that area. 21 MR. TRAVERS: Just to talk a little bit further 22 23 about some of the measures we are using, in the next slide the plan that we're using specifies some of the broad 24 25 acceptance measures for determining whether or not adequate program improvements to support restart in fact have been made. We've indicated an expectation really that the 3 licensee needs to reach a judgment in this area and that we're as we mention relying to an extent on Little Harbor's 4 5 activities as well. 6 But some of the areas in looking at the adequacy of the employee concerns program are listed in terms of staffing, training qualifications, how they implement their 8 9 program, documentation, and so on and so forth. We have 10 much more specific things that we look at we have on a 11 backup slide, but these are sort of a broad treatment of 12 some of the measures that we include in our program for 13 assessing these issues. CHAIRMAN JACKSON: How many of these areas have 14 15 you measured to this point, and are there any preliminary 16 assessments or conclusions that you --MR. TRAVERS: Yes, in fact there are. We've as I 17 mentioned completed team evaluations which covered both the 18 19 licensee's programs in both ECP and SEWE as well as Little Harbor's effectiveness in carrying out their oversight 20 21 responsibilities. 22 The way we've documented the results of these team 23 evaluations to date is via a guick-look letter. A 24 quick-look letter is a letter that's public, it documents 25 the preliminary team evaluation findings. It's transmitted to the licensee. We've provided it to your offices as well, 1 relatively recently, I must admit, but nevertheless it's up 3 there. So this is the mechanism that we use just prior to documenting in a formal inspection report. CHAIRMAN JACKSON: The Commissioner said 9:29 this 5 6 morning. MR. TRAVERS: That's pretty recent. Yes. CHAIRMAN JACKSON: Well, given that quick look, 8 9 why don't you give us a quick summary of what's in the quick 10 11 MR. McGEE: Okay. On the quick look we --12 actually there were two reports, and we're going to come out 13 with final reports in two areas. One would be to the licensee, Northeast, describing our evaluation in those 14 15 areas, and one to Little Harbor Consultants. In summary are 16 looking at the licensee's programs. We looked extensively 17 at the employee concern program aspect because those

our team evaluation and the activities that Bill described.

programs were more developed and established. 18 I think for the most part in summary we found 19 20 similar to what you heard from Little Harbor Consultants' 21 summary that the activities and the efforts, how they're dealing with intake of issues, resolution of issues, and 22 23 timeliness, that that process and programs and employee 24 concern program is working well and effectively. 25 And the safety conscious work environment, that's a more difficult area, and we're going to get that 1 2 additional piece when we are doing our follow-on on the corrective action program which I personally think that's a very important piece. But we did look at a number of elements in that area as far as the licensee's dealing with I think they term it their problem areas, organizational areas where there's issues. And we had some findings and 8 issues there that will require -- I think Little Harbor mentioned a few of them -- followup and need some additional 10 attention. 11 And also looking at their training I think as you 12 heard before that the training in some of the training 13 14 15 16 17 18 to give a more detailed plan in that area, in the safety 19 conscious work environment 20 But we're still out a little bit on the corrective 21 22 ongoing activities in that area. 23

sessions that our staff attended as part of the evaluation we thought was good and effective, but we did find another area as far as long-term planning, what are they going to do in the long term, some deficiencies in that program. And I believe I heard Northeast Utilities say that there are plans

actions and how those issues evolve, because we've got some

CHAIRMAN JACKSON: Commissioner McGaffigan.

COMMISSIONER McGAFFIGAN: On the slide that you 24 2.5 had up a moment ago, the postrestart elimination of

third-party oversight, which restart are you talking about? Would they stay on board through 2, and if they reoperate 1-1 or how do you see that playing out? MR. TRAVERS: Well, I put this on to be inclusive

of everything that's in the order, as it's currently written, and the order as written anticipated the need for sustained performance and demonstration given these issues are not ones that turn around overnight and are quickly

10 Certainly the order as it's interpreted by us in 11 any case we've put in our plan an expectation that's for at 12 least six months after restart of at least the first unit we would expect the third-party oversight organization to be in 13 14 place. That was a guess on our part. We had to pick a time 15 frame that might seem reasonable for that kind of sustained performance to be evidenced, but the order simply specifies 16 17 that sufficient -- how is it put? -- the sufficient 18 performance sustained needs to be at evidence for the staff to come to a conclusion that the third-party oversight is no 19 20 longer required. So in a sense that's the only element of 21 the order, strictly speaking, that remains in the most 2.2 formal sense.

As I indicated within the RAP, within our restart assessment plan, the conclusions that the staff has to reach in ECP and SEWE are still at issue, and we need to come

1 before the Commission.

1 2

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23 24

2.5

2 The last bullet, or the second-to-last bullet on this slide is meant to capture that we intend to do that by

writing a safety evaluation report that covers both of these issues and provide that to the Commission prior to restart. And right now Unit 3 of course is the one that looks to be 8 CHAIRMAN JACKSON: Have you found -- Mr. McGee, 9 maybe you can answer this -- similar issues with the 10 oversight and maintenance and oversight of other operating 11 organizations that Little Harbor spoke to? 12 MR. McGEE: We are aware -- and it's rather unique 13 for us to get -- and a lot of these involve personnel 14 actions and personnel issues and disciplinary issues, and they are quite apparent when they come up at the site and 15 16 I'll do the sensitivity and we have -- are monitoring with our staff following along with -- I know Little Harbor gets 17 the same information following those activities. And there are a number of those events and issues, and we are the most 19 20 part in an observation role and looking at the licensee's process for dealing with those issues. But our findings in 21 22 the events are consistent I think with what Little Harbor described in presenting their attributes. 23 MR. TRAVERS: Can I have the next slide, please? 24 25 It would be slide No. 5. 151 CHAIRMAN JACKSON: So these quick-look reports are 1 2 publicly available? 3 MR. TRAVERS: Yes, they are. CHAIRMAN JACKSON: Okay. Yes. 5 MR. TRAVERS: Maybe I'll just list the fact that 6 in addition to the ones we've sent up the program expectation is that for each inspection, at least the team inspections that we complete from now till the end of the project we would expect to issue such quick-look reports so 10 that we can give more timely -- maybe even more timely than 11 9:00 o'clock at the Commission meeting -- information to 12 people who are interested in our team evaluations. 13 The next slide is meant to give you a quick compilation of the things that we've completed since our 14 last Commission meeting in December. One item that's not on 15 the slide but the Chairman made reference to earlier is the 16 fact that we've issued a letter recently that is a demand 17 for information letter on the isolating the cynics issue 18 19 that requires Northeast to provide us with information on their evaluation of the issue and handling of the issue and 20 21 whether they think any of what happened involves a violation 22 of 50.7 requirements. 2.3 Other than that, we have continued to meet with both the Licensee and Little Harbor periodically in public 24 meetings near Millstone. As I mentioned, we have completed 25 our team evaluations and issued quick-look letters. We have ongoing and continuing site monitoring of their activities, 3 both the licensee's and Little Harbor by NRC staff and contractors whom we have working with us, and the 4500 inspection is ongoing. 5 Right now, similar to what you heard from both the 6 licensee and from Little Harbor, the Staff's assessment of 8 employee concerns program status is that by virtue of things 9 like staffing and training, numbers of people working in 10 that department, the timeliness of resolution of issues, the quality of resolution of issues, the feedback to the 11 12 originators, we find that that program is running at an 13 acceptable level. We are going to, of course, continue to 14 monitor that situation and document it in our report to the

15 Commission, but at the current time we wanted to provide you the benefit of our thinking, that this is an acceptable 16 level of performance on the part of Northeast. 17 In the broader question of safety-conscious work 18 environment, our activities are continuing to assess that 19 and, again, similar to what you heard from both Northeast 20 21 and from Little Harbor, we think there is some additional 22 work that needs to be done, basically in the areas that you 23 have already heard about. 24 Through April, we have projected at least that we 25 would certainly continue to meet on a periodic basis to 1 discuss status and monitor the situation at Millstone. We 2 expect to issue the formal team evaluation report, this follow-on, the quick-look, and that we would in all likelihood, depending upon whether or not the issues are 4 5 resolved and completed, develop the safety evaluation that would document our conclusions with regard to both ECP and SCWE Of course, I put through April, but this will be 9 when it will be, and it's just sort of a projection, a planning tool right now for estimating when we might be 10 11 12 Next slide, please. The restart assessment plan for each of the 13

Millstone units includes our NRC significant items list which identifies the individual and programmatic issues that are at issue, and we are now presenting these in a fashion similar to what you have already seen to make it clear, at least fairly clear, where we stand relative to the total issues and packages that need to be submitted.

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NU is providing submittal packages for most of the significant items list issues, and together with our inspection reports -- rather, our inspection activities, our review of these packages are being used to close out these individual issues as we go forward. And as you can see, of the total 216 packages, we have closed out 168 and are

documenting our closure in inspection reports issued periodically by the Staff.

We have heard today that there are six packages as opposed to nine that are now remaining to be submitted. That's an update. And we have under review essentially all of the ones that haven't been completed.

CHAIRMAN JACKSON: Are there any items that are of more concern than others, particularly in the categories of remaining to be submitted or --

MR. TRAVERS: I'm going to ask Mr. Lanning to 10 11 address a couple of them.

12 MR. LANNING: Well, there are some very critical 13 issues remaining to be addressed by the licensee. A couple 14 of more important ones are the submittal packages for 15 Appendix R of vendor interface, inclusion of vendor information into procedures, are two examples of key issues 16 17 yet to be addressed by Northeast.

CHAIRMAN JACKSON: Okay.

MR. TRAVERS: Next slide, please.

19 The ICAVP, which was required by an NRC 20 21 confirmatory order, is intended, of course, to confirm that the NU collective actions have been effective in 2.2 23 establishing that the units conform with their licensing and design basis. The ICAVP is, in our view, an extraordinary 24

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activities, the NRC staff is also carrying out a series of
      team inspections, and four of five of those inspections have
      now been completed at Unit 3. We have issued the formal
      inspection reports for two of those. Again, quick-look
      letters are being issued for the remaining. We have
 5
      actually issued two quick-look letter reports for two of the
 6
      inspections, and our fifth inspection, the corrective action
 8
      inspection that is going to look at the corrective actions
 9
      resulting from findings in ICAVP space, is scheduled.
10
               Together with the Sargent & Lundy reviews, the
11
      ICAVP effort involves a detailed evaluation in tier 1 of 15
12
      of the 88 systems reviewed by NU, and additionally, in tier
13
      2, and tier 3, as you have heard before, the ICAVP will
      examine critical design characteristics of some 20-odd other
14
      systems. So it's quite an encompassing review and --
15
               CHAIRMAN JACKSON: How many people are we talking
16
17
      about here?
               \ensuremath{\mathsf{MR}}\xspace . TRAVERS: Typically on each of the team
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19
      inspections, the five inspections the NRC is carrying out,
      we have about seven people, and the inspections --
20
               CHAIRMAN JACKSON: And how long do the inspections
21
22
      last themselves?
23
               MR. TRAVERS: Typically they are four weeks on
24
      site?
25
               MR. IMBRO: Four or five weeks -- yeah, four weeks
                                                           156
      on site. Two with a week off, and then back for another
 2
      two.
 3
               MR. TRAVERS: Next slide, please.
               The results of the completed NRC team inspections
 5
      are presented on the next few slides. The first inspection
 6
      that we completed -- and I have actually discussed at
      previous Commission meetings -- involved our implementation
      inspection of Sargent & Lundy's performance against the
 8
 9
      NRC-approved audit plan that Sargent & Lundy is using to
10
      carry out its programs. This involved a fairly early-on NRC
      assessment and we have had others since, and I will talk
11
      about those in a moment, but largely this inspection
12
13
      confirmed that Sargent & Lundy is carrying out its program
14
      in accordance with that approved audit plan.
15
               The first system safety functional inspection that
16
      we carried out, one of two, was completed in September, and
17
      we talked to the Commission about the results of that
18
      inspection last time. Basically from that inspection, which
19
      focused on the ECCS mode of the chemical and volume control
2.0
      system operation at Millstone 3, we identified 16 ICAVP
      significance level 3 issues. Last time when I came to the
21
22
      Commission, I identified a potential significance level 1, a
      fairly significant issue. Currently, based on information
2.3
      that the utility has provided to us in a predecisional
24
      enforcement conference, as well as information that we are
25
 1
      getting on the docket, this finding appears to be more
      appropriately classified as a level 3 in the context of our
 2
 3
      scheme for ICAVP level significance determinations.
 4
               Let me go on to the next inspection. The next
 5
      inspection that we completed in January involved the look at
 6
      both tier 2 and tier 3. In terms of tier 2, we are looking
      at accident mitigation systems and again in the context of
      tier 2, we are looking at plant change processes.
 8
               This inspection had another component of
10
      evaluating the performance of Sargent & Lundy, and in that
11
      context, the inspection concluded again that Sargent & Lundy
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support using their conclusions in our program for assessing 13 the overall conformance with the licensing and design basis. 14 15 We did identify some issues, however, with Sargent & Lundy. They have taken on those issues and they have 16 17 corrected or at least carried on some more activities in response to the concerns that were raised by that inspection 18 19 20 Again, we did identify some level 3 findings in 21 this ICAVP -- in this case, six, and we can categorize or 22 classify those further if you wish. Last inspection that we have completed is a tier 1 23 24 In-scope SSFI. This is a system by In-scope that Sargent & 2.5 Lundy has also examined, the RSS system. 1 We have also looked at the emergency diesel 2 generator and the supplemental leakage collection and release system. Again, the component here relating to S&L; performance, since it is an In-scope system that they looked 4 at, we looked at their performance by measuring what we found against what they found, and again our conclusion is that S&L; performed their program adequately. Again, though, we did identify some issues, and 8 they have taken on some additional reviews in response to those issues, not just for this system, but for other 10 systems that they have reviewed in the context of their 11 12 ICAVP reviews. So it is both a specific finding and a more broadly applied Corrective Action, if you will, on the part 13 14 of Sargent & Lundy. 15 Again, the six preliminary ICAVP level 3 findings 16 are identified in connection with this inspection. 17 Next slide, please. Thus far, the most significant findings resulting 18 19 from our NRC ICAVP inspections, and, in fact, from Sargent & Lundy's activities, as well, are at level 3. Although we 20 are not -- although we are still in the process, really, of 21 finalizing a number of these findings, and we have not yet 2.2 initiated the ICAVP Corrective Action Inspection, the 23 results today indicate that the licensee CMP, while not 24 25 perfect, has generally been effective in establishing conformance with the Unit 3 licensing and design basis. 1 2 In order to reach a final determination on this, of course, we are going to need to complete the program. 4 You have heard that only about 30 percent, or 20 percent, 5 depending on how you count the items being identified by Sargent & Lundy, have been run through the process. But I did want to give you an indication, based on where we think we are today, both from a standpoint of our assessment of 8 what is coming out of the Sargent & Lundy review, and our 10 own NRC team inspections, as to where we are at relative to 11 this issue 12 We are not at end game, but, by virtue of the lack of significance of the issues, we don't -- we think that. 13 14 and, importantly, the review that we will ultimately 15 complete on the Corrective Actions that need to take place, 16 we think that today, at least, the findings suggest reasonable conformance with the licensing and design basis. 17 18 In that mode, and an important element of our level 3 findings, in addition to assessing the significance 19 20 of each finding, is our independent evaluation of the 21 licensee's Corrective Actions. For all level 3 findings, 22 the process we are using to determine whether or not to expand the ICAVP scope is focused on our assessment of the

is performing their process and program adequately to

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Corrective Action adequacy, both narrowly and more broadly,
25
      and on our assessment of any trends in these findings.
               In effect, the licensee's Corrective Actions
 1
2
      associated with ICAVP level 3 findings are resulting in an
      augmentation to the licensee's original CMP program, and to
 3
     our own reviews of what they are doing. The process we are
     using would result in an additional TCAVP review if our
 5
 6
      independent evaluation determines that the licensee's
      Corrective Actions are inadequate.
8
               To date, we have not identified negative trends in
9
      our inspection findings, but we have only begun our
10
      assessment of Corrective Actions. So, again, we must
      substantially complete the program before reaching a final
11
12
      conclusion on the effectiveness of the licensee's efforts.
               The last bullet on this slide is meant to indicate
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14
      that we have recently provided additional information on the
     process we are using to make judgments about ICAVP scope
15
16
      expansion or not. There is a lot of merit in doing that.
     We have documented that further in additional information
17
18
     and letters to NEAC, and you and the contractors, and we
     have had an opportunity to discuss it at our post recent
19
20
      public meeting. It has been an issue, and people in the
21
     area of Millstone have been concerned about this process and
22
     how we are applying it, so we wanted to put on the record
2.3
      more formally the types of considerations that we are
24
      working through in making these judgments.
25
               Next slide, please.
1
               The ICAVP activities projected to be completed,
2
      again, through April, are the Unit 3 ICAVP Corrective Action
3
      Inspection, which is scheduled to begin the 23rd of
4
      February, on-site, the Unit 2 ICAVP Tier 1 out-of-scope.
      This is the first SSFI team inspection at Unit 2 and we
5
      expect, and this, again, depends upon where we are at, but
 6
      the projection, at least right now, would have us completing
     our Restart Assessment Panel Evaluation of the Unit 3
8
      findings from both Sargent & Lundy and from our own NRC team
10
      inspections and documenting our conclusions relative to the
11
      judgment we make regarding conformance or not with the
12
      licensing basis and design basis.
13
               Next slide.
14
               CHAIRMAN JACKSON: Let me make sure I
15
      understanding something. You talked about one inspection
      that was starting on the 23rd that was a four week on-site
16
17
     inspection. Is that the same as --
               MR. IMBRO: That's the Corrective Action
18
      Inspection, you are referring to, Chairman Jackson. That is
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2.0
      really -- that, right now, is scheduled for three weeks
      initially. We think we may have to, because the licensee
21
     isn't -- well, because the DR process is still ongoing, we
22
23
     may have to do part of the inspection and inspect what we
24
      can of the work that the licensee has already done, and then
     come back, you know, a week or so later and do the
25
1
      inspection of the Corrective Actions in response to the
     Sargent & Lundy generated Discrepancy Reports.
2
3
               CHAIRMAN JACKSON: Okay. But I just want to make
      sure I am talking about the same inspection here.
               MR. TRAVERS: Yes.
5
 6
               CHAIRMAN JACKSON: So the one you talked about,
      this fifth inspection, --
               MR. IMBRO: That's it.
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MR. TRAVERS: That's the Corrective Action.
               CHAIRMAN JACKSON: And so these are both the same?
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11
               MR. IMBRO: That's it.
12
               CHAIRMAN JACKSON: Okay.
               MR. TRAVERS: I should point out one problem with
13
      this slide. I have been trying to indicate the on-site time
14
15
     in all of the dates I have been using. The second
     inspection includes, I think, prep. and documentation.
16
     There's -- it's too long a period for an on-site inspection,
      so I will just point that out now. Sorry.
18
19
               CHAIRMAN JACKSON: Now, I don't mean to be picky,
     but this fifth inspection, when I asked the question, you
20
21
     said there were seven people and it would be four weeks on
2.2
     site.
23
               MR. TRAVERS: This one, the team inspections to
     date on the System Safety Functional Inspection, the two
2.4
25
     systems, have involved seven people for four weeks on site.
1
     This last inspection -- and if I misled you, I apologize --
      the Corrective Action Inspection is right now, and it may
      take longer, but it is right now nominally scheduled for
      three weeks on site with -- how many people?
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5
               MR. IMBRO: About seven people.
               MR. TRAVERS: About seven people.
              CHAIRMAN JACKSON: Okay. So the first was
8
     historical?
9
               MR. IMBRO: Yes.
               MR. TRAVERS: Yes. And this is the
1.0
11
     follow-through. Just to give you an overall sense of all of
12
     the inspections, at least the ones we have identified that
13
      need to take place before we could be in a position to
14
      consider a restart recommendation, we have put them all down
      on this slide, beginning with the ongoing Corrective Action,
15
16
      or 40500 inspection leading off. This is a seven person
      inspection and it is two weeks on site.
17
18
               We have inspections in motor operated valves. The
19
      major team inspections listed here are the, again, the ICAVP
      Corrective Action Inspection, the Operational Safety Team
20
      Inspection, which is very much an important determination
21
22
     for the licensee's transition from a shutdown plant to an
      operating plant. This is an inspection that needs to be
23
      tied to their entry into Mode 4 and if that slips, our
24
25
      inspection will slip to appropriately cover the activities
1
     that we need to observe in connection with those operating
2
      mode and operator actions.
               CHAIRMAN JACKSON: So it could be impacted by this
     -- what turned up today?
4
5
               MR. TRAVERS: That's my point, yeah. The Deferred
6
     Items List, this is an important one because we have, to
7
     date, conducted three inspections of the Deferred Items
8
               CHAIRMAN JACKSON: Now, is this another check of
10
     the Open Items List?
               MR. TRAVERS: That's exactly right, it's just a
11
12
      different terminology for the same thing.
13
               CHAIRMAN JACKSON: Okay.
               MR. TRAVERS: We have been periodically received
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15
     detailed lists from the licensee of all of the items that
     they consider both necessary for restart, as well as the
16
      items that they intend to defer, and we have been inspecting
17
     those periodically. And I think, as the Chairman pointed
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19
     out, we have identified an issue most recently with the
     adequacy, in part, at least, of the most recent list.
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               CHAIRMAN JACKSON: And did that -- was that
22
      surfaced through this kind of inspection?
23
               MR. TRAVERS: Yes, that very inspection is the one
      that surfaced that -- that issue. On the whole, though, I
24
     have to tell you that we have, in pulling the string on some
25
     of these, even though this turned up a question and it may
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     ultimately be a serious one, the inspections that we have
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3
      conducted against the deferred items have identified a
4
      fairly low threshold for inclusion of many, many things on
5
     this list and appropriate deferral of items that don't have
     particular safety significance and are not issues that
 6
     affect the licensing or design basis.
              CHAIRMAN JACKSON: Now, will you be giving
8
      particular attention to issues that the licensee is adding
9
     to the list late in the game?
10
               MR. TRAVERS: Yes, we have one more, or depending
11
12
      on how many days go by, weeks, we have as many as it takes,
13
     but we are going to perform at least one more of these types
14
     of inspections before coming to the Commission.
               CHAIRMAN JACKSON: Please.
15
               COMMISSIONER DIAZ: I have a quick question. Now
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17
     that my brain is starved.
              CHAIRMAN JACKSON: The day is young.
18
               COMMISSIONER DIAZ: There will be no level 3 items
19
2.0
     in the deferred list, correct?
21
               MR. IMBRO: That is probably true because --
22
               MR. TRAVERS: Level 3 items need to be addressed.
23
     and that is the agreement.
24
               COMMISSIONER DIAZ: Need to be resolved before --
25
               MR. TRAVERS: Resolved, I shouldn't say addressed.
               COMMISSIONER DIAZ: And that is -- that is a clear
1
     distinction?
2
 3
               MR. TRAVERS: To meet your licensing.
               COMMISSIONER DIAZ: Level 4, that will be
     considered, and could be or not?
5
               MR. TRAVERS: Yes. Many of those --
               MR. IMBRO: Likely would be deferred.
               CHAIRMAN JACKSON: Depending upon what you find in
8
9
     terms of looking for adverse trend.
10
              MR. TRAVERS: Yes.
11
               CHAIRMAN JACKSON: But no level 3's. That is an
12
     important distinction.
13
               COMMISSIONER DIAZ: That is an important
14
     distinction. And I guess you now realize that we have been
      sensitized to the Deferred Items List, so expect to see it
15
16
      in great detail.
17
               MR. TRAVERS: I think I recognize that. Each --
      the last point I will make on it is that each of these
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19
      inspections cover issues that are encompassed in our Restart
20
     Assessment Plan, so that that plan, again, you know, sort of
21
     captures all of this and is our method for documenting
22
     closure in part.
23
              Licensing restart issues are identified on the
24
     next slide. The two additional issues that need to be
     submitted are issues that affect Mode 2 and not Mode 4. But
25
     to a large extent, our best sense of where we are relative
     to the ones we have under review is that they are being
2
      processed reasonably, on a timely schedule.
               CHAIRMAN JACKSON: So are they likely to be
      critical path? Because normally there is a 30-day Federal
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Register notice of license amendments.
              MR. TRAVERS: That's right. In fact, if you look
      at the schedule for the earliest possible treatment of even
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9
      a nonsignificant issue, it's about 45 days in terms of the
     processes that we have to utilize. Federal Register notice
1.0
     and so forth. So it could be, but right now the indication
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12
      we have from the licensee is they expect to get that in very
13
14
               CHAIRMAN JACKSON: It depends on what they get in
      and your assessment of what they get in.
15
16
               MR. TRAVERS: Getting it in triggers the action
      that we take in handling it.
17
18
              CHAIRMAN JACKSON: Okay. Very good.
19
               MR. TRAVERS: The last two slides are slides that
20
      I have typically presented to the Commission in connection
21
     with these briefings, and they are our project planning
22
     schedule. They are the schedules we use to schedule our
23
     resources, and it's always important to recognize that the
24
      activities that are indicated on here are largely dependent
25
      upon the licensee completing the actions that they need to
1
      complete for us to come in and carry out an important
2
      inspection.
               CHAIRMAN JACKSON: So it's a planning tool.
               MR. TRAVERS: It's a planning tool.
4
               CHAIRMAN JACKSON: It does not presuppose any
 5
6
     particular judgment.
               MR. TRAVERS: It certainly does not, and one thing
7
8
     that I have changed in the presentation this time is we've
     removed any -- because this is a planning tool and we don't
1.0
      plan for the Commission, we've taken out the Commission
11
      meeting date from this slide. We don't want to lead to any
12
      misunderstandings about the significance of any date we
13
      might list in such a planning tool. So we've removed that
      from the schedules. I think you could infer when the staff
14
     though will -- could at the earliest be ready to come before
15
16
      the Commission with a recommendation.
              CHAIRMAN JACKSON: Right. But I think in the end
17
     as you say it's the Commission's meeting date, and you have
18
19
      to come and present the case, and you have to indicate when
20
     you're ready to do that.
               MR. TRAVERS: I think the best indication of our
21
22
     not using schedules to drive anything is the fact that these
23
      schedules have changed over time, and you can go back
     historically and look at them, and they've changed because
24
25
      of the need on the licensee's part to complete important
1
      activities to support us coming behind.
2
               CHAIRMAN JACKSON: Very good.
3
               COMMISSIONER McGAFFIGAN: May I ask --
               CHAIRMAN JACKSON: Please.
 4
5
               COMMISSIONER McGAFFIGAN: You've effectively
     amended the Unit 3 slide as it pertains to license
 6
     amendments in your last remarks, right? At the moment it
      carries -- finish 3/6, and I interpret your last remarks to
      mean finish around 4/1.
10
               MR. TRAVERS: Whenever.
11
               COMMISSIONER McGAFFIGAN: If you get the
12
     application tomorrow.
               MR. TRAVERS: That's right. It would take 45 days
13
14
     min.
               Chairman, you asked us to address a question about
15
16
     operability of RSS and if --
               CHAIRMAN JACKSON: Yes.
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MR. TRAVERS: I'll just do that very quickly now.
19
               CHAIRMAN JACKSON: Please.
               MR. TRAVERS: The answer from our view is that we
20
21
      believe that the modifications that have been made to the
22
      system were necessary to make that system operable. The
23
     licensee itself has issued at least we believe on four
24
     occasions LER reports that indicate a question about
     functionality of that system. We documented in an NRC
25
     inspection report a potential escalated enforcement issue
1
2
     associated with operability of the -- functionality of that
      system. So the answer simply is that we believe that that
3
      system was not operable.
4
               CHAIRMAN JACKSON: Before the modification.
               MR. TRAVERS: Before the modification. Of course
6
     it's required to be operable in Mode 4 and above.
7
               CHAIRMAN JACKSON: Right.
               Commissioner?
               COMMISSIONER DIAZ: I was just going to go on
1.0
     that. Operability meaning the capability to perform a
11
12
     safety function according to requirements of the license.
               MR. TRAVERS: Right.
13
               CHAIRMAN JACKSON: Is that correct?
14
               MR. CALLAN: Not necessarily.
15
16
               COMMISSIONER DIAZ: No?
               MR. CALLAN: A system can be operable -- I mean,
17
18
     can be functional but not operable.
19
               COMMISSIONER DIAZ: Correct. Correct.
20
     That's what I'm saying. Operability defined as capability
21
     to perform a safety function.
22
               MR. CALLAN: Operability as defined by tech specs.
               COMMISSIONER DIAZ: Yes.
23
               MR. CALLAN: Right. Which does not always
24
25
     necessarily imply --
               CHAIRMAN JACKSON: Right. So you don't want to
1
      give a universal. You're saying it's --
 2
 3
               MR. CALLAN: No, no.
4
               CHAIRMAN JACKSON: Relative to this particular --
5
               MR. CALLAN: In fact, that's one of the reasons
     we --
6
               CHAIRMAN JACKSON: In this particular --
8
               MR. CALLAN: That's why we call it a safety system
9
     functionality inspection and not a safety system operability
     inspection, because of that distinction. It's a very
10
11
      important distinction.
              COMMISSIONER DIAZ: I just wanted to bring it out.
12
     There is a distinction. Sometimes I get --
13
               MR. CALLAN: Right. And that distinction is
14
     crucial. It's very important. Right.
15
16
               CHAIRMAN JACKSON: And you don't want to go on the
17
     record as saying one thing and something else is in the tech
18
     specs.
19
               MR. CALLAN: Right.
               CHAIRMAN JACKSON: Good.
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               MR. LANNING: Speaking of which, may I clarify my
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     response to you on the --
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              [Laughter.]
               MR. LANNING: Significant items list?
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They have submitted packages to us for the vendor

information. That's just a critical issue that still remains to be resolved with additional packages coming. 2 Whereas with the Appendix R submittal we have not received 4 any of those packages necessary for inspection of that item. CHAIRMAN JACKSON: Okay. Thank you very much. 5 Any additional questions from the Commissioners? We've been here a long time. I would like to 8 thank Northeast Utilities, Sargent & Lundy, Parsons Power, Little Harbor Consultants, and of course the NRC staff for briefing the Commission on the progress in assessing 10 11 readiness for restart of the Millstone units. And once again I will state on behalf of the 12 Commission that we recognize how difficult it is to condense 13 14 the substance of the reviews performed by each of you into 15 briefings like this. And that is the primary reason that the NRC in November of 1996 created the Special Projects 16 17 Office to provide for direct oversight of all licensing and 18 inspection activities and to tailor the NRC staff's 19 quidelines for restart approval to specifically assess 20 deficiencies at the Millstone units. 21 And as I state at each meeting and I'll state 22 here, the Commission does not presuppose that any of the 23 three plants will restart by any certain date. The 24 Commission is primarily concerned in ensuring that the Millstone station is a safe station with an effective 25 1 corrective action program and an environment supportive of the raising of and resolution of safety concerns. 2 Now with respect to the schedule for the next 3 Commission meeting on Millstone, I think it is important to 5 recognize that when a plant has been shut down for an extended period of time, even under a confirmatory action letter, which is more narrowly tailored typically, for 8 example, the licensee will usually establish dates to facilitate its planning and scheduling of activities in support of plant restart, and it is used as part of what the 10 11 staff may use in planning its work. However, licensees quite often take longer than 12 they expect to complete their restart activities, leading to 13 14 concomitant adjustments or delays in the schedule for the 15 staff's reviews, inspections, and assessments of a plant's readiness for restart. 16 17 And in the case of Millstone, given the scope, 18 complexity, and significance of the issues there, it is natural to expect that the resolution of the issues may take 19 20 a little while longer. 21 The NRC staff, and I said this when I was in Connecticut, has been directed to stay focused on doing 22 23 objective assessments and to call it as they see it. 24 In preparing for any subsequent Commission 25 meetings and in reports to the Commission. I would like to ask the staff to give particular attention to and to provide 1

ask the staff to give particular attention to and to provide
information in the following ten areas which has already
been transmitted to the staff through a tasking memo from me
to Mr. Callan, the EDO. But I will list them.

First, crisp, clear analyses of the issues with
recommendations where appropriate for the Commission. And
that's because you're talking to the Commission, not to
yourselves.

Second, a summary of independent NRC actions, for
example, inspections or any other assessments, supporting

staff decision making. But this requires a layout of the

12 criteria that you're using to make those assessments. 13 Third, impartial evidence that Northeast Utilities 14 has made sufficient progress and fixed the underlying problems in both employee concerns and the corrective action 15 processes or not. Yet impartial evidence that the licensee 16 17 for instance has addressed problem identification. Root 18 cause evaluation. Resolution for the individual issue. The evaluation of and resolution of any generic issues that are 19 20 captured by that as appropriate. And the timeliness and comprehensiveness overall of problem resolution. 21 2.2 Fourth, an objective discussion of what the 23 aforementioned items indicate about the effectiveness of the 24 licensee employee concerns program and corrective action and configuration management processes. 25 1 Fifth, a discussion of and conclusion of 2 acceptability of the resolution of any and all existing or previous open items including any specific employee concerns 3 issues raised and any of the previously identified open 5 items Sixth, the strength of quality assurance and 6 7 management oversight. 8 Seventh, resolution of issues related to 9 enforcement, allegations, and petitions. 10 Eighth, the screening process and acceptance 11 criteria for reaching conclusions including any 12 justifications or basis for allowing any open items at the 13 time of plant restart. 14 Ninth, an appropriate staff-recommended regulatory 15 tool for enforcing a schedule for resolution of any open 16 items at restart. 17 And tenth, a discussion of issues impacting 18 operational readiness for restart, along with a discussion of the stability of the organization for continued safe 19 20 operation upon restart in light of resources being diverted 21 to other units. And so unless my fellow Commissioners have any 22 23 additional comments, we're adjourned.

[Whereupon, at 1:37 p.m., the hearing was

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concluded.1