

NUCLEAR REGULATORY COMMISSION

ORIGINAL

COMMISSION MEETING

In the Matter of: DISCUSSION AND VOTE ON
FULL POWER OPERATING
LICENSE FOR SALEM

PUBLIC MEETING

DATE: January 14, 1981

PAGES: 1 - 75

AT: Washington, D. C.



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1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION
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4 DISCUSSION AND VOTE ON
5 FULL POWER OPERATING LICENSE FOR SALEM

6 PUBLIC MEETING
7 Nuclear Regulatory Commission
8 Room 1130
9 1717 H Street, N. W.
10 Washington, D. C.

11 Wednesday, January 14, 1981

12 The Commission met, pursuant to notice, at

13 10:05 a.m.

14 BEFORE:

15 JOHN F. AHEARNE, Chairman of the Commission
16 VICTOR GILINSKY, Commissioner
17 JOSEPH M. RENDRIE, Commission
18 PETER A. BRADFORD, Commissioner

19 STAFF PRESENT:

20 L. BICKWIT, General Counsel
21 M. MALSCH, Office of General Counsel
22 J. HOYLE, Secretary
23 H. DENTON, NRC
24 E. CHRISTENBURY, NRC
25 J. KERRIGAN, NRC
D. EISENHUT, NRC
L. NORHOLM, NRC
V. NOONAN, NRC
D. ROSS, NRC
D. VOLLNER, NRC
J. KNIGHT, NRC
D. VASALLO, NRC
J. DICKIE, NRC
R. PRIEBE, NRC
S. SCHWARTZ, NRC
J. DICKIE, FEMA

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P R O C E E D I N G S

2 CHAIRMAN AHEARNE: The business the Commission
3 meets on this morning is to consider a report from the
4 Director of NRR regarding the Salem No. 2 station. At an
5 earlier stage we had addressed previous issues with respect
6 to Salem. We now come to address a full power license
7 proposal.

8 Len, are we under any kind of restriction?

9 MR. BICKWICK: No. This is an uncontested
10 matter. It is contemplated that you would always have free
11 access to the staff on those matters.

12 CHAIRMAN AHEARNE: We have received a small
13 billet-doux from the staff regarding Salem and I am sure
14 that there are many interesting items in it that some of us
15 may have missed, or all of us have missed. I have hopes
16 that this morning will at least some of the concerns.

17 Let me briefly mention the ones I have, so that I
18 would like in your presentation at least you address those
19 and perhaps some of my colleagues would care to point out
20 the areas that they are interested in, the emergency plan,
21 the operators, the competence of the company, the block wall
22 and the role of I&E.

23 Does anyone else have anything that they would
24 care to say?

25 (No response.)

1 Harold.

2 (First slide.)

3 MR. DENTON: I have with me this morning at the
4 table on my left Janice Kerrigan, the Project Manager for
5 Salem II, Darrell and on my right Leif Norholm, the Resident
6 Inspector at Salem. We did plan to cover I think all of the
7 areas you mentioned.

8 The Commission did issue a low-power license for
9 this plant in April of last year. They completed the
10 low-power testing in August. Since that time these types of
11 issues and others have been partially the cause for our not
12 completing the safety review before this date. We now have
13 resolved to the satisfaction of staff all of the issues
14 , except those relating to emergency planning.

15 So, in our view, the only impediment to the
16 issuance of a full power license would be the completion of
17 the emergency planning plan and the execution of a drill.
18 That drill is not expected to be performed until about
19 March.

20 We have in the audience today a representative of
21 FEMA and we will ask him to discuss the status of emergency
22 planning in the two affected states at an appropriate time
23 in the agenda.

24 Let me turn it over then to Janice to go through
25 our review and we will be sure to hit the areas you have

1 identified.

2 CHAIRMAN AMEARNE: All right.

3 MS. KERRIGAN: If we could have the second slide.

4 (Slide.)

5 This outlines what we planned on discussing for
6 this meeting.

7 As Dr. Denton said, we have finished our review
8 for the Salem 2 full power license and we will be
9 recommending issuance once the emergency preparedness items
10 have been completed.

11 Basically we are going to cover some non-TMI
12 issues and TMI issues. I think all of the issues that you
13 requested will be covered.

14 First, we would like to go through the actions
15 that have been completed by the licensee since the issuance
16 of the low-power license on April 18th.

17 (Slide.)

18 This slide summarizes the major actions that have
19 been taken by the licensee. I will draw your attention to
20 the low-power testing program that was initiated and will be
21 completed prior to operation above five percent power.

22 I would if Leif could give a brief status of the
23 plant as it is today.

24 MR. NORHOLM: Right now the plant is in cold
25 shutdown and has been since August 30th at the completion of

1 the low power test program. The only portions of that
2 program remaining at to do some training for a few
3 additional operators, but they are essentially ready for
4 power ascensions above five percent.

5 CHAIRMAN AHEARNE: Leif, are you the Salem
6 resident or the Salem 2 resident?

7 MR. NORHOLM: I am the Salem generating station
8 resident of both plants.

9 CHAIRMAN AHEARNE: Do you have an assistant there?

10 MR. NORHOLM: Yes, I do. He has been there for a
11 year.

12 CHAIRMAN AHEARNE: The two of you cover the two
13 plants?

14 MR. NORHOLM: That is correct.

15 (Slide.)

16 MS. KERRIGAN: This is a summary of the low power
17 testing program that was completed by Salem. Essentially
18 the program is identical to the program that was completed
19 by North Anna. The tests that were completed are listed on
20 the slide. We were basically happy with the program.

21 As Leif mentioned, they will be completing some of
22 the training portion of the program prior to exceeding five
23 percent power.

24 CHAIRMAN AHEARNE: In going through these were
25 there any anomolous results or any unusual problems that

1 occurred in the sense of either equipment or procedures?

2 MS. KERRIGAN: Not that I am aware of.

3 Leif, are you aware of any?

4 MR. NORHOLM: No, there were not.

5 MS. KERRIGAN: No. It essentially went very
6 smoothly.

7 (Slide.)

8 On the next slide are listed the main topics that
9 we will be discussing. We have broken it into the non-TMI
10 issues, which were issues that were either left over from
11 fuel load or new issues that have come up. We left a
12 category "Other" to address any other issues that you would
13 like to discuss. Then we will cover the TMI items.

14 (Slide.)

15 The first major topic that we would like to talk
16 about is equipment qualification. The PSE&G program is
17 essentially complete except for aging.

18 The staff has conducted three audits on Salem.
19 They are much further along than any of the other near-term
20 OLS that you have heard about.

21 The first audit, essentially major program
22 deficiencies were identified in that audit. We feel that
23 that is attributed mostly to a lack of communication between
24 the staff and the licensee. The licensee did not have a
25 full understanding of what was expected under this item. So

1 they have resubmitted their entire program, redid their
2 entire program and came in with that program. The staff
3 went back out for another audit and was happy with the
4 results of that.

5 They audited five percent of the items and
6 essentially came up with the same conclusions as the Salem
7 station and recommended at that time that they should be
8 allowed to go to full power.

9 Since that time, since the SER was issued, we have
10 gone out and done our full audit, the 20 percent audit. We
11 don't have the full results back from that yet, but the
12 preliminary results do indicate that the conclusions that
13 was drawn from the five percent audit was not changed.

14 CHAIRMAN AHEARNE: What was the conclusion?

15 MS. KERRIGAN: The conclusion was that Salem
16 should be allowed to go to full power. There were some
17 deficiencies identified in that second one.

18 CHAIRMAN AHEARNE: The deficiencies, can you put
19 some number on it?

20 MS. KERRIGAN: I think I will let Vince Noonan
21 give you a brief rundown of the numbers.

22 (Slide.)

23 MR. NOONAN: Vince Noonan, Division of Engineering.

24 Before I go into this slide I would like to point
25 out that in the SER we talk about a total of 60 types of

1 items that the licensee has identified that are required for
2 a safe shutdown of the plant. Of those 60 we basically have
3 five types that the licensee says are qualified. So those
4 have been placed aside and we are looking at that to see
5 whether or not we agree with that or not.

6 There are 24 types that do not appear in this
7 chart that strictly are aging problems and that, as Janice
8 pointed out, will be completed by the 1st of February. Our
9 staff has looked at that program, gone through as much
10 detail as they could and we are satisfied that that will be
11 done by the 1st of February.

12 CHAIRMAN AHEARNE: Vince, when you say they are
13 aging problems, do you mean with respect to the rest of the
14 qualification you are satisfied and it is just the aging is
15 the open item?

16 MR. NOONAN: It is the only outstanding issues to
17 be resolved. So I did not put that on this chart since that
18 is the only item left to go.

19 COMMISSIONER GILINSKY: Those have been audited?

20 MR. NOONAN: They have been audited as much as
21 could be at this point in time. It will be done in a few
22 more weeks so it is basically a pretty complete audit of the
23 aging requirements.

24 We have then what we call 31 outstanding items.
25 In the February 1st SER we will be carrying these as items

1 that are unresolved and we need further work with the
2 licensee.

3 The first type is titled "Existing Analyses
4 Indicate Qualification Not Required." There are eight types
5 of equipment totaling 93 actual items.

6 COMMISSIONER GILINSKY: Why were those on the list
7 at all?

8 MR. NOONAN: What the licensee has done is has
9 done some type of analysis saying that because of either the
10 location of the equipment or it is not exposed to the actual
11 environment right now or other means of getting the plant
12 shut down. Since they appeared on this first list he then
13 provided us with an analysis that says they are not really
14 required. We haven't fully resolved that.

15 COMMISSIONER GILINSKY: It shouldn't have appeared
16 on the original list.

17 MR. EISENHUT: It is sort of semantics. You know,
18 the way we did this is we started with everything. What
19 this really is, and you will see this in a couple of other
20 categories, they are really disappearing because it shows
21 that they shouldn't have been on the list in the first
22 place, or the utility is making some design changes so they
23 no longer have to be on the list, some of these kinds of
24 things.

25 This is sort of a completeness accounting scheme.

1 I reiterate the point, and Vince can correct me, we did the
2 two reviews here. We did the review which is sort of what
3 we did on Sequoyah, North Anna and down the line, that is,
4 the review we were doing up until February 1. But at some
5 point recognizing that February 1 is very, very close, we
6 have the February 1 SERs to do per the Commission's order.

7 This is the first plant where we have completed
8 the February 1 type of review. This is sort of an
9 accounting scheme to account for all of the outstanding
10 issues, all of the issues, all of the technical subjects
11 which I believe is about 50 percent. There were about
12 60-some items.

13 MR. NOONAN: Sixty items, right.

14 MR. EISENHUT: This is just trying to be from a
15 completeness standpoint. Otherwise, in the number games
16 they always fall in the cracks.

17 COMMISSIONER BRADFORD: There is a semantic
18 problem I think with that slide, though, because where you
19 say 31 outstanding items you are not using the word "item"
20 the same way you are in each of the subcategories.

21 MS. KERRIGAN: That is right.

22 MR. EISENHUT: Well, we are not using the word
23 "outstanding" right either.

24 (Laughter.)

25 MR. EISENHUT: It is about 31 out of about 60 or

1 so types of equipment.

2 COMMISSIONER BRADFORD: That is the point, items
3 on top is synonymous with types of equipment as it appears
4 down through here.

5 MR. EISENHUT: In fact, as you can see from the
6 very first item, they are no longer outstanding items.
7 These were the outstanding items before and this is a moving
8 target also. Last week's review has superseded this slide
9 somewhat, but you are certainly right.

10 MR. NOONAN: This is really an accounting type of
11 sheet. The licensee has identified 60 types of equipment
12 necessary for a shutdown. What we do is we go through and
13 make sure we can account for every one of these.

14 The first group or the first eight types, he has
15 provided us with these analyses. The staff has looked at
16 them and they are satisfied with them. They quote 93 actual
17 pieces of equipment.

18 There are nine types of equipment to be replaced.
19 These total a total of 82 actual pieces of equipment.

20 There are some design changes that are being made
21 to preclude qualification of equipment and these are two
22 types which include eight actual items.

23 CHAIRMAN AHEARNE: Is there a date by which that
24 is to be done?

25 MR. NOONAN: These have basically already been

1 completed. These are mainly changes in wiring of the
2 particular circuits to eliminate these pieces of equipment.

3 We have one design change that has been completed
4 that is no longer a basically required qualification. It
5 satisfies the qualification. There are a total of four of
6 those items.

7 There are procedural changes that have been made
8 to preclude need for qualification. These are six types of
9 those types of equipment and there are 23 actual items.

10 CHAIRMAN AHEARNE: Are you saying, Vince, that the
11 first item with eight types and the last item with six
12 types, the section was two and one, so the total of 17, are
13 ones that either no longer have a need or else have been
14 satisfied?

15 MR. NOONAN: They have been satisfied. The staff
16 has fulfilled about 50 percent looking through the data
17 sheets now to make sure they agree with all this. They have
18 done their site review. What they looked at at the site
19 they agreed with. We will make sure we go through a hundred
20 percent of all these items. This about half way through
21 that part of it.

22 MS. KERRIGAN: The last one on there, we have a
23 licensed condition on the licensee to complete those
24 procedural changes before exceeding five percent power.

25 MR. NOONAN: That is right. At this point in time

1 we are not saying they are completely finished because the
2 staff has not completed its total review.

3 CHAIRMAN AHEARNE: On the second item which are
4 the nine to be replaced by June 30th, you have reached some
5 sort of conclusion that having them in there through June
6 30th is not necessary?

7 MR. NOONAN: Yes, sir. There has been
8 justification provided by the licensee in each case. The
9 staff has reviewed a hundred percent of those
10 justifications. They have concluded that the total
11 replacement of those items will actually occur and that the
12 justification is sufficient. These are basically the items
13 that have been identified to the Commission earlier, Barton
14 transmitters, limit switches, those types of equipment.

15 (Slide.)

16 This is the remainder of the 31 types. "Provide
17 Qualified Equipment Or Relocate to a Non-Harsh Environment
18 By June 30, 1982." There are three types of this equipment
19 totaling 30 items.

20 There is confirmatory testing to be performed on
21 one type of item. There are actually three pieces of
22 equipment. This is necessary because this piece has been
23 qualified but they are going back and checking to make sure
24 that the actual materials and the design of this piece of
25 equipment is indeed the same as the one that has been

1 qualified. At that point in time they could not prove it
2 yet.

3 They have one qualification schedule for one type
4 of equipment which will be three actual items. That will be
5 done by January 1st, 1982.

6 CHAIRMAN AHEARNE: I gather for these five also
7 the staff has reached a conclusion that they similarly are
8 satisfied and are comfortable with their plant operating
9 with those items?

10 MR. NOONAN: Yes, sir, in all these cases they
11 have.

12 COMMISSIONER BRADFORD: Vince, what is actually
13 happening with regard to that second item from the bottom?
14 You say the piece of equipment itself is qualified?

15 MR. NOONAN: It had been qualified. The model
16 number actually changed. When the staff looked at the
17 qualification report and the piece of equipment that was in
18 the plant there were some different model numbers. The
19 licensee has gone back to verify that this is exactly the
20 same piece of equipment that was qualified.

21 COMMISSIONER BRADFORD: I see. They are not sure
22 it is the same piece of equipment?

23 MR. NOONAN: No, they are not. They are checking
24 it right now and they have said they will do confirmatory
25 tests to be completed by '81.

1 COMMISSIONER BRADFORD: If it is a different piece
2 of equipment?

3 MR. NOONAN: That is right.

4 MS. KERRIGAN: Do we have any more questions of
5 equipment qualification?

6 CHAIRMAN AHEARNE: Peter?

7 COMMISSIONER BRADFORD: This is essentially the
8 information that will be in the SER on equipment
9 qualification?

10 MR. NOONAN: This will be specified in much more
11 detail in the SER.

12 COMMISSIONER BRADFORD: But you don't expect
13 significant changes between ---

14 MS. KERRIGAN: --- the five percent audit and the
15 twenty.

16 MR. NOONAN: No, sir.

17 COMMISSIONER BRADFORD: Basically the difference
18 between hard data and that which you are still working into
19 the SER is the difference between the five percent audit and
20 the 20 percent audit?

21 MR. NOONAN: That is right. Basically what we are
22 looking now is just going through the remaining of the
23 summary sheets to see whether or not we find anything in the
24 summary sheets that would negate any finding we have made so
25 far.

1 (Slide.)

2 MS. KERBIGAN: The next subject that we would like
3 to talk about is GDC-51 which essentially requires a
4 non-brittle containment pressure boundary. The reason why
5 this issue even came up is we have always assumed that
6 compliance with the ASME code assured compliance with the
7 GDC-51. As we looked into it in more detail it turned out
8 that Salem was designed to the 1968 version of the code
9 which did not require fracture toughness testing which the
10 staff felt was necessary.

11 So we reviewed Salem against the later versions of
12 the code which did require fracture toughness testing. We
13 reviewed all the components and we found one that had no
14 test data, no fracture toughness data. That was the
15 feedwater lines. So we went back and we were able to deduce
16 from the thermal history of the pipe that the material was
17 ductile and therefore met GDC-51. So we concluded that it
18 complies with GDC-51.

19 While we were doing the review we also came across
20 in the feedwater lines some stop-check valves. Simple check
21 valves are explicitly prohibited by GDC-57. Salem provided
22 justification for those valves and we gave them a temporary
23 exemption from GDC-57 until they can either show that the
24 stop-check valves would meet GDC-57 or put a motor operator
25 on those valves.

1 COMMISSIONER GILINSKY: Can you explain that?

2 MS. KERRIGAN: All right. Which part, the GDC-51
3 part of the ---

4 COMMISSIONER HENDRIE: Are they stop-checks or ---

5 MS. KERRIGAN: They are stop-checks. We are
6 verifying that they are accessible. Simple checks are
7 forbidden. If the stop-checks are accessible during any
8 event then they would not be forbidden. We are still trying
9 to confirm that those stop-checks are accessible.

10 MR. DENTON: Why don't we have Dennie Ross
11 describe GDC-57 and our interpretation of it and how it
12 applies in this case.

13 MR. ROSS: I would like to use a simplified
14 picture.

15 (Slide.)

16 This shows one steam generator typical of four.
17 There is a vertical line that demarcates the containment
18 boundary. Just to the right of the containment boundary in
19 the area labeled "penetration area" is a check valve with a
20 little symbol coming out of the top which is supposed to
21 denote a hand wheel. The valve is labeled seismic class one
22 just to the right of the dotted line and that is the seismic
23 class one interface.

24 Of course, the main feedwater flow is normally
25 from right to left going through the check valve which of

1 course during full power operation would be fully opened.
2 Should the main feedwater stop or should a significant
3 rupture occur to the right then there would be a reverse
4 pressure gradient and the check valve should close. The
5 operator can go and turn the hand wheel and effect a
6 positive closure. So as far as the construction of the
7 valve itself, without describing the means of operation,
8 there is a means of assuring a positive closure by turning
9 the wheel.

10 The GDC-57 says a simple check isolation feature
11 at this point in the plant design is not acceptable. What
12 GDC-57 says is acceptable is one of three things. It could
13 be a motor operated valve from the control room, or
14 manually, or it could be an automatic isolation valve that
15 would actuate, say, on a containment isolation actuation
16 signal.

17 The intent is for that remote hand wheel to be
18 replaced in due course with a motor which would have a
19 controller signal in the control room.

20 COMMISSIONER GILINSKY: What is the intent of
21 GDC-57?

22 MR. ROSS: I said the intent of our licensing
23 action is to be put that in.

24 COMMISSIONER HENDRIE: It is a containment
25 isolation provision. For instance, on lines that go through

1 the containment and are open to the primary pressure
2 boundary and, hence, in case of a LOCA or connected to the
3 accident and so on you require isolation valves both inside
4 and outside the containment wall. Again, simple checks
5 won't do.

6 This is a system which is in principle at least
7 closed inside the containment. So in order for anything to
8 come out this system from the radioactive side of things you
9 have to have a break into that secondary system. So in this
10 case you get away with one isolation valve outside of
11 containment, but again not simple checks. The aim of not
12 having simple checks acceptable as the isolation valves is
13 to have a more positive closure function available.

14 I am surprised they set these up with hand wheels,
15 frankly. Did they explain why? You know, I used to lecture
16 on this point at MIT long enough ago so that Salem engineers
17 should have been attending before they designed the damn
18 system.

19 (Laughter.)

20 MS. KERRIGAN: They do have two automatic
21 redundant isolation valves way upstream of these.

22 COMMISSIONER HENDRIE: I see.

23 MS. KERRIGAN: But they are very far away from the
24 containment. We didn't like them that far away and we
25 wanted them to bring it in closer to this check valve.

1 MR. DENTON: The issue is confined to just these
2 four valves in the feedwater line. So it is just the four.
3 The kind of scenario that would be of concern to the staff
4 is one in which there is a steamline break perhaps
5 downstream here so that you open up this normally closed
6 secondary system to begin with and that somehow this results
7 in core damage and the release of fission products inside
8 the vessel. This leaks through the steam generator at some
9 leakage and gets through these valves and you have got a
10 direct path. That is the kind of thing that GDC-57 is
11 intended to prevent.

12 The solution I think they have proposed, Janice,
13 is to replace these manual operated valves and to put motors
14 on these four ---

15 MS. KERRIGAN: During the first refueling.

16 MR. DENTON: --- during the first refueling. Our
17 look at the details of it and the type of layout leads us to
18 conclude that there is no undue risk associated with
19 permitting that operation in the interim.

20 CHAIRMAN AHEARNE: Are those the main valves or
21 the aux feed valves that you are talked about putting the
22 motors in?

23 MR. ROSS: The auxiliary feed line is at the top
24 and the main is at the bottom.

25 CHAIRMAN AHEARNE: I know, but you said just

1 four. That would be eight.

2 MR. ROSS: The four main feed lines, one per steam
3 generator, right.

4 CHAIRMAN AHEARNE: And also the aux feed?

5 MR. ROSS: I would have to look at my other
6 diagram which is more complex which is Figure 1.

7 (Slide.)

8 MR. DENTON: I don't know the answer.

9 MR. ROSS: Figure 1 is a little more elaborate of
10 Figure 2. There are a number of auxiliary feedwater
11 valves. The source is coming of course from the three pumps.

12 COMMISSIONER HENDRIE: I think the answer is eight.

13 (Laughter.)

14 MR. ROSS: There are quite a few more auxiliary
15 feedwater control valves.

16 COMMISSIONER HENDRIE: Well, yes, but this shows
17 both the motor driven and turbin driven aux feeds coming
18 down through that stop-check into the main feedwater lines.
19 So if that stop-check is converted to motor driven on signal
20 from the control room, it is the 11AF23 valve, just the same
21 as 11BF22.

22 MR. ROSS: But the isolation criteria for this
23 system is not the same because safety systems' isolation
24 criteria take on a different interpretation. Obviously you
25 don't want to isolate these.

1 COMMISSIONER HENDRIE: I see.

2 MR. ROSS: It is the same as ECCS isolation
3 criteria.

4 COMMISSIONER HENDRIE: We are back to four.

5 MS. KERRIGAN: Yes, it is four.

6 (Slide.)

7 We also examined fire protection and Salem meets
8 all of our fire protection in the staff criteria. All of
9 the outstanding items will be completed prior to operation
10 above five percent power.

11 Salem 2, although not covered by the rule, has
12 committed to implement the new Appendix R items on the same
13 schedule as Unit 1 to keep the units identical. So they are
14 in very good shape as far as fire protection goes.

15 Any questions?

16 (No response.)

17 We also looked at some other items that could be
18 classified as non-TMI-1 which are the masonry walls. Salem
19 does have some masonry walls and they plan on completing
20 their modifications prior to operation above five percent
21 power.

22 CHAIRMAN AHEARNE: Could you expand a little bit
23 on why you raised the masonry walls?

24 MS. KERRIGAN: In response to the bulletin Salem
25 did identify some walls that are block walls that had some

1 reinforcement bars and were not constructed according to
2 design. They have proposed some modifications and those
3 modifications will be completed prior to operation above
4 five percent power.

5 Would you like more details?

6 CHAIRMAN AHEARNE: Yes.

7 MR. DENTON: I think so far in our survey we have
8 found some 5,000 masonry walls inside either auxiliary
9 buildings or containments about half of which may have
10 something hung on them of significance or may be in a
11 position such as they could fall on something significant.

12 CHAIRMAN AHEARNE: This is clearly in all plants
13 and not just Salem?

14 MR. DENTON: That is right. It is requiring a lot
15 of effort to look at the design criteria for masonry walls
16 and what they may or may not have supporting them.

17 I will turn it over to our engineering group to
18 talk about Salem specifically.

19 (Slide.)

20 MR. VOLLMER: In performing their response to I&E
21 Bulletin 80-11 they found about ten walls which would not
22 meet their criteria. There were various reasons for this.
23 In some cases the reinforcing rod was missing. In some
24 cases there were voids in the blocks, meaning that they were
25 not filled with grouting. In some cases they were

1 apparently not designed to meet natural phenomena. So it
2 was a design deficiency. So it was a combination of both
3 design and actual construction deficiencies.

4 Now, in a meeting with Public Service we proposed
5 a condition in the license in their response to Bulletin
6 80-11 that they would prior to going above five percent
7 power complete the strengthening of the walls to their
8 original design criteria.

9 CHAIRMAN AHEARNE: Did they have a design criteria
10 for the walls?

11 MR. VOLLMER: Well, the design criteria for the
12 walls would be basically meeting ACI codes.

13 CHAIRMAN AHEARNE: There are code requirements for
14 masonry walls?

15 MR. VOLLMER: The codes are not specific for
16 masonry walls but they are design requirements which if
17 applied to masonry walls in a proper way we feel could
18 provide the level of protection needed in a masonry wall.

19 CHAIRMAN AHEARNE: Dick, what I am trying to get
20 at is are there clear criteria that one would say, yes, here
21 are the criteria and we agree that those are appropriate?

22 MR. VOLLMER: These criteria are not clear and we
23 are in the process of developing criteria that we would hope
24 to be used across the industry in this problem.

25 MR. DENTON: I think again it is a level of detail

1 that normally our review didn't extend into. We looked at
2 the main floors and load bearing walls. You know, it is a
3 question of the scope of our interest. We have just gotten
4 into masonry walls recently.

5 CHAIRMAN AHEARNE: But if there is safety related
6 equipment on it don't you look at it?

7 MR. DENTON: Well, we will now, but you know we
8 can't look at everything with the staff we have. There are
9 3,000 walls.

10 (Laughter.)

11 MR. VOLLMER: These things came about from a
12 combination of things. Again, one was construction
13 deficiencies. In some cases we find that these walls were
14 not intended to support safety related equipment or to be
15 close to safety related equipment but in field construction
16 and so on they ended up that way. So it is quite a mixed
17 bag of tricks and we are trying to develop a uniform
18 approach on an expedited basis to find out what the problems
19 are and to implement a uniform action on response 80-11
20 across all the operating plants.

21 CHAIRMAN AHEARNE: Let me pick up though on
22 something, if I can get back to you for a moment, Harold.
23 Are you saying that you don't have any requirement that
24 would cover how you mount safety related equipment?

25 MR. DENTON: Well, let me ask Jim to describe what

1 our criteria are in this area.

2 COMMISSIONER HENDRIE: You mean if you were
3 building a new one or if you are going back into a finished
4 plant and saying, now, will this wall fall down and pull the
5 instrument down?

6 MR. DENTON: The latter case.

7 COMMISSIONER HENDRIE: The latter case I expect is
8 more difficult.

9 MR. KNIGHT: I think, if I may get to the thrust
10 of your question, we certainly have, particularly in the
11 review of Salem, criteria in mind by which we can judge the
12 adequacy of what they have done. As Dick noted, there are
13 codes, the ACI codes and the uniform building codes that do
14 address masonry construction. Typically they don't address
15 it to perhaps the level of confidence, if I may use that
16 term, that we would require in nuclear application.

17 MR. DENTON: It is an issue which was not covered
18 in our standard review plan. It was not customarily a part
19 of our review to look at masonry walls. It was a
20 realization that they were quite often walls put up.

21 CHAIRMAN AHEARNE: Harold, I am not trying to say
22 that you should have looked or you should look at all
23 masonry walls. In that connection I was trying to see
24 whether we had any requirement on if you use a masonry wall
25 in such a way that if it fails it takes with it some systems

1 which are very important.

2 MR. DENTON: Well, we have developed such criteria
3 in specific cases. Remember it was a contested case over
4 masonry walls which was what got us into this issue and led
5 to the issue of the bulletin. Jim does have criteria now
6 for judging the responses that we are getting in, but we
7 didn't have before this began any definitive criteria.

8 CHAIRMAN AHEARNE: But when you look at what Salem
9 is doing you do have criteria?

10 MR. DENTON: Yes.

11 CHAIRMAN AHEARNE: How extensive is the situation
12 at Salem? How many walls are in question with safety
13 problems?

14 (Slide.)

15 MR. KNIGHT: There is a summary of the situation
16 at Salem. We are talking ten walls total.

17 COMMISSIONER BRADFORD: With regard to the phrase
18 "the licensee reported ten walls" didn't we in fact have to
19 find some of these walls?

20 MS. KERRIGAN: Maybe Leif could talk about that a
21 little bit.

22 MR. NORHOLM: The response to the bulletin came in
23 two parts, one after 60 days and the other after 180, after
24 the complete evaluation was done. In the initial response
25 the licensee had not identified that item 1-A on the slide,

1 safety related piping attached to the wall. That was
2 identified by us on site. A subsequent response identified
3 that as a potential problem also. The final 180-day
4 response has all the walls in the plant which are near
5 safety related equipment and does provide the analysis and
6 the corrective actions taken for both units.

7 The purpose of the 60-day response was to get an
8 initial look at what the potential problems might be.

9 COMMISSIONER BRADFORD: The first response
10 identified nine walls then?

11 MR. NORHOLM: They did identify the walls. The
12 only wall missing in the first response was the truck bay
13 wall. That came in later. So the walls were identified and
14 an initial evaluation considered them not to be a problem
15 but they did not observe that the safety-related piping was
16 attached to the wall. That is the only point at which
17 safety related piping is attached to a wall in the plant.
18 The issue on all the remaining walls is proximity to safety
19 related equipment.

20 CHAIRMAN AHEARNE: The license condition that you
21 were going to impose is what?

22 MS. KERRIGAN: It is that prior to five percent
23 they will complete the strengthening program and then by first
24 refueling the staff will have completed its review and if
25 there are any additional modifications that we feel should

1 be backfit on the plant we will backfit them at that time.

2 MR. EISENHUT: I should point out that in the
3 package we sent down, this is a slight change to the license
4 condition. The license condition we sent down said that
5 prior to five percent they had to do both of these things.
6 Now we are saying prior to five percent they do the one
7 thing and prior to the operation following the first
8 refueling outage they resolve any differences between their
9 criteria and our criteria as published in final form and
10 then fix any deltas.

11 CHAIRMAN AHEARNE: And you modified it because?

12 MS. KERRIGAN: I had just made a misunderstanding
13 with the reviewer. I thought that he meant everything by
14 five percent and really he meant the first three and the
15 last one by first refueling which is something that fell in
16 the crack.

17 MR. KNIGHT: It might be worth commenting that we
18 had the structural engineering staff at the site. We have
19 reviewed the designs and reviewed the drawings. We have
20 made a visit to the areas so we could see what the walls
21 actually were.

22 The difference in the criteria we are talking
23 about here is an incremental one. It a measure really of
24 perhaps once again that extra step, that extra measure that
25 we may require in, say, nuclear applications as opposed to

1 what would be acceptable for normal construction practices.

2 Said another way, when they complete the
3 strengthening program that they have proposed there will be a
4 very substantial increase in the seismic capacity of the
5 walls such that there certainly is a high level of
6 confidence that they would sustain the required earthquake
7 loads.

8 Now, whether or not in the final application of
9 criteria as a general measure to withstand scrutiny, if you
10 will, without question, we require some slight additional
11 increment. When we issue the final criteria we would expect
12 them to meet whatever that final criteria turns out to be,
13 but we are not proposing in any way that there be some
14 significant deficiency allowed to go on for a period of time.

15 CHAIRMAN AHEARNE: Thank's, Jim.

16 COMMISSIONER BRADFORD: Let me ask again what I
17 took was implicit in one of your earlier questions on this
18 general subject. When you say that there are no criteria
19 for masonry walls, the general design criterion says that
20 safety related piping has to be seismically adequate and I
21 presume that means the walls that support it as well as the
22 piping itself. Is that criterion violated here?

23 MS. KERRIGAN: No.

24 COMMISSIONER BRADFORD: Why not?

25 MS. KERRIGAN: I think at one time we weren't sure

1 about the construction of the wall, but the modifications
2 that the licensee will complete prior to five percent power
3 will assure that that criteria isn't violated.

4 COMMISSIONER BRADFORD: But at the moment you are
5 not sure that it is not?

6 MR. NORHOLM: That particular wall has been
7 strengthened now.

8 MS. KERRIGAN: Yes.

9 MR. NORHOLM: It was the vital wall between the
10 two units that had to be resolved in Unit 1 before they went
11 back in service.

12 MR. DENTON: I guess to put it in context that
13 while there might be a wall somewhere the chance of that
14 wall being, you know, the nail that led to the lack of
15 seismic capability of the plant is pretty remote. There
16 aren't many walls and they are being strengthened.

17 We didn't have specific criteria like we have for
18 the design of the containment and the main load bearing
19 walls and it goes on and on and on about the design
20 details. I was surprised to find the people had put any
21 safety related equipment on or near these walls, but as we
22 continually look deeper we turn these things up.

23 COMMISSIONER BRADFORD: I gather that the question
24 certainly isn't unique to Salem in any case.

25 MR. DENTON: No. That is why the bulletin went to

1 all applicants. It is a big review by the staff for all of
2 the plants.

3 COMMISSIONER BRADFORD: Tell me again on what kind
4 of a schedule it requires that the walls be strengthened.

5 MR. DENTON: For Salem or for all plants?

6 COMMISSIONER BRADFORD: No, for all plants.

7 MR. DENTON: I don't recall the status for all
8 plants.

9 Jim, do you?

10 MR. KNIGHT: The responses were due to the
11 bulletin, the 180-day responses that gave the applicant's
12 appraisal of the extent of the problem, in November. We are
13 in the process now of reviewing those responses and they are
14 fairly extensive. Out of some 69 we have made our way
15 through some 47 of them.

16 The bulletin required that if seismic category one
17 equipment or systems were determined to be in jeopardy as a
18 result of the review performed by the applicant that their
19 technical specification language, if you will, would be in
20 force.

21 As far as our setting a schedule for repair of the
22 walls, it is something that we would anticipate developing
23 very shortly once we have had the benefit of our complete
24 review.

25 MR. DENTON: We could brief you later on that. We

1 haven't really tabulated the numbers I gave of 5,000 total
2 walls with about half of them having proximity or something
3 on them or what. We are coming out with the results of the
4 bulletin and we are not really yet decided on the complete
5 course of action.

6 COMMISSIONER BRADFORD: I would be interested in
7 that at a future date. For purposes of Salem you are
8 satisfied that both units -- well, let's see, what about
9 unit one?

10 MS. KERRIGAN: Unit 1 has completed all of their
11 modifications and they are at 100 percent power now.

12 CHAIRMAN AHEARNE: Well, I gather what Leif
13 pointed out is the reason that the A-wall is now
14 strengthened is because in order for Unit 1 to go back up on
15 power it had to be strengthened.

16 MR. NORHOLM: That is right.

17 MR. EISENHUT: We did a lot of interim fixes.
18 Actually the bulletin that went out last year, the 180-day
19 bulletin, there was actually iteration before that where we
20 did a quick look at different plants. In fact, where there
21 were some problems plants were being fixed. The 180-day
22 letter then, the reason it was 180 days was because we had
23 taken a preliminary look already and now we are sort of in
24 the final fix-up stage. We sort of made a safety assessment
25 quite early in the process.

1 MR. KNIGHT: A number of plants have already
2 completed the modification of their walls as a result of the
3 effort they performed under the bulletin.

4 CHAIRMAN AHEARNE: Go ahead, Janice.

5 (Slide.)

6 MS. KERRIGAN: On slide No. 9 the topic is shift
7 staffing. What I show on this slide is the combined with
8 both units operating numbers and the per-shift that is
9 required. There are two SRCs required per shift and four
10 SROs required per shift.

11 They currently have licensed a total 11.

12 CHAIRMAN AHEARNE: Janice, when you say "required"
13 which requirement is that?

14 MS. KERRIGAN: These are the requirements from
15 NUREG 0737 and from an earlier letter dated -- I don't
16 recall the date.

17 CHAIRMAN AHEARNE: NUREG 0737 requirements?

18 MS. KERRIGAN: Yes. Currently right now they are
19 on three 12-hour shifts. They have enough people, both ROs
20 and SRCs to go to the four 12-shifts and they plan on going
21 to four 12-hours shifts within the next two weeks. They are
22 working on putting the people in the right box and making
23 sure that Joe Smith has his time off, his vacation and
24 things.

25 There was an exam taken last week. We do not have

1 the results of that exam back, but if everyone passes that
2 exam they will be very close to the five 8-hour shift
3 operation.

4 CHAIRMAN AHEARNE: I guess past percentages would
5 lead one to conclude that probably everybody wouldn't pass
6 the exam.

7 MS. KERRIGAN: Right. I think that their
8 percentages are getting better. They record just around
9 fuel load time with our new requirements on upgrading the
10 exam content. Their training people have been down and
11 talked to us and they have been beefing up the training.

12 CHAIRMAN AHEARNE: I wasn't aiming just at Salem.
13 It is just that everyone should pass it.

14 MR. DENTON: One of our concerns with this
15 applicant going back to the original license was the total
16 amount of manpower available at the site. In other words,
17 we were concerned up and down the line not just with
18 operators but with assistants and technicians and health
19 physics coverage and have seen an increase in their
20 attention to this area. It has gotten to a point now where
21 the Human Factors Division has concluded that the plant can
22 be operated with these kinds of staffing even though they
23 are not up to where we ultimately would like to see them.

24 MS. KERRIGAN: One of the numbers that is not
25 shown on here is the back-up, for example, engineers or

1 middle management people that also have licenses. This is
2 just the bargaining unit people.

3 CHAIRMAN AHEARNE: Now, Salem 1 is now operating
4 on what kind of shift?

5 MS. KERRIGAN: They are also on the three 12-hour
6 shifts.

7 CHAIRMAN AHEARNE: Three 12-hour shifts, and that
8 is what they would propose for Salem 2?

9 MS. KERRIGAN: Yes.

10 MR. NORHOLM: For the near term.

11 MS. KERRIGAN: Salem 2 also has requirements even
12 though they are in cold shutdown to have the same shift.

13 CHAIRMAN AHEARNE: So you would end up having
14 three 12-hour shifts.

15 MS. KERRIGAN: Right.

16 CHAIRMAN AHEARNE: We had some at least words I
17 thought floating around that that was a maximum, that
18 12-hour shifts were the maximum that were allowed and that
19 we were trying to encourage people to go to less than that.

20 MR. DENTON: Yes.

21 CHAIRMAN AHEARNE: What are their plans, to stay
22 at three 12-hour shifts?

23 MS. KERRIGAN: No, sir. They plan on, as I said,
24 going to four 12-hour shifts in two weeks and with their
25 plan to be on five 8-hour shifts by no later than July 1st.

1 MR. EISENHUT: I think it is January 27th.

2 MS. KERRIGAN: Yes, 26th.

3 MR. EISENHUT: No. Maybe we are lacking
4 communication here. Not counting the January 6th to 9th
5 exams they have, using the current licensed group, enough
6 already from the past exams that on January 26th they are
7 going to go to four 12-hour shifts. Given the exam success
8 rate is high then in fact they are hoping to be very close
9 to going to the five 8-hour shifts.

10 MR. DENTON: So they would be at four shifts prior
11 to any contemplated operation.

12 CHAIRMAN AHEARNE: Leif?

13 MR. NORHOLM: One point I might make is the fourth
14 shift this month is for the requalification training
15 programs. So operators will still be on three shifts.
16 There will be a fourth shift for training to meet the
17 requalification requirements.

18 CHAIRMAN AHEARNE: As far as operators are
19 concerned the will still be on the three shifts?

20 MR. NORHOLM: That is right.

21 CHAIRMAN AHEARNE: Do they propose, and I gather
22 NRR concurs, to treat the plants at least for SRCs as single
23 control room plants?

24 MS. KERRIGAN: That is right.

25 CHAIRMAN AHEARNE: Your argument for allowing that?

1 MS. KERRIGAN: The two control rooms are right
2 across the hall from each other. I think this was discussed
3 back at the fuel load stage where we agreed with the
4 licensee that for SRO purposes they should be treated as one
5 control room since they are directly adjacent to each other
6 but for RO purposes we want to go ahead and treat them as
7 separate control rooms.

8 CHAIRMAN AHEARNE: Is it your proposal then that
9 you will, independent of what happens on further training
10 numbers, et cetera, always treat them as a single control
11 room?

12 MS. KERRIGAN: Yes, that is our proposal.

13 MR. DENTON: Let me ask Domenic Vasallo if he
14 would like to discuss it a little bit more.

15 MR. VASALLO: Domenick Vasallo. I just want to
16 make a clarification. We are treating them for purposes of
17 SROs as a single control room and for purposes of ROs as a
18 separate one.

19 CHAIRMAN AHEARNE: I understand that.

20 MR. VASALLO: That is what was granted to them in
21 their fuel load license and that is what we propose to
22 continue to allow them to do. They would be staffing to
23 meet those requirements.

24 MR. EISENHUT: Now, to answer one other question,
25 one of the license conditions that we put in the license is

1 that PSE&G shall commence to use regularly scheduled 8-hour
2 shifts without reliance on routine use of overtime by June
3 the 1st, 1981. What that says is that although we think
4 this approach is an approach that is good in the interim we
5 don't want it to be an approach that continues indefinitely.

6 You remember at the last meeting we had I think
7 Steve's expression was he is trying to develop some science
8 to go into this approach of whether 12-hour shifts
9 scheduled are better than going with 8 hours where you have
10 a high likelihood of bringing people in early and carrying
11 them over late. I think our thought process was at this
12 point that three 12-hour shifts were adequate.

13 Recognizing they had a get-well program which gets
14 them to a requalification program using the fourth 12-hour
15 shift we have added in a license condition which states that
16 the licensee shall commence regular requalification training
17 of operators by March the 1st.

18 In essence that says that he must have four
19 12-hour shifts capability by no later than March 1. He is
20 planning to do it sooner. Also, the other condition I just
21 mentioned points out that he has to have enough operators go
22 back to an 8-hour shift by June the 1st.

23 We sort of looked at this as a package that
24 initially we weren't as confident that the licensee had
25 developed a program, a get-well program, overall to get to

1 where we wanted him to get to be. Now that he has a program
2 and the new program looks like it is working and it is in
3 the right time scale we are willing to buy the three 12-hour
4 shifts for some short period of time.

5 We do that also recognizing one more thing and
6 that is, as you will see in a minute, we can't really see
7 getting to the point where this plant would be able to start
8 up past five percent certainly before March or perhaps even
9 later. So it is a short period of time we are considering.

10 (Slide.)

11 MS. KERRIGAN: When we came up for the fuel load
12 license we talked about the control room design review.
13 This is just to reiterate some of that. We liked their
14 control room. There were a few deficiencies identified and
15 there are still two outstanding which will be completed
16 prior to operation above five percent power.

17 (Slide.)

18 On the next slide, Slide No. 11, we did compare
19 Salem with the NUREG-0737 requirements. They meet them all
20 with the exception of the two listed on the slide and those
21 two are tied in with the Westinghouse Owners Group. They
22 will be a couple of months delayed and we found that
23 acceptable.

24 (Slide.)

25 On Slide No. 12 with the topic of "Emergency

1 Preparedness" they do have an interim EOF and an interim TSC.

2 COMMISSIONER GILINSKY: Would you go back to that
3 point about the reactor coolant system water level monitor.
4 You are talking there about a report?

5 MS. KERRIGAN: That is a report, yes, sir. That
6 is the final design package.

7 COMMISSIONER GILINSKY: When do we think that that
8 sort of equipment will actually be installed?

9 MS. KERRIGAN: I believe we have the date of --
10 isn't it 7/1/82?

11 MR. EISENHUT: I think it is 1/1/82.

12 MS. KERRIGAN: 1/1/82

13 COMMISSIONER GILINSKY: It is about a year later?

14 MR. EISENHUT: It is about a year later. This is
15 the item you remember where there were some questions as to
16 whether in fact the technology is even there yet. This is
17 the item that we deferred generically in 0737 for a year.
18 We initially had required this to be a 1/1/81 requirement
19 and we backed it off a year across the board.

20 What this is at this point is a report we are
21 requiring from all people explaining what system they are
22 going to be using and what it looks like on their plant.

23 The report on the ECS water level monitor really
24 doesn't bother me being a month late because I know it is
25 being developed generically in most cases and the staff is

1 following the industry's development on this. It may well
2 turn out that the 1182 schedule is actually best.

3 COMMISSIONER GILINSKY: Let me ask you are we back
4 on track now?

5 MR. EISENHUT: Well, things haven't changed since
6 our briefing on 0737 really. An awful lot of reports are
7 due by 1/1/81 as you will see in our briefing on this
8 tomorrow. I don't see us really slipping that many
9 schedules yet and there is no change in the end date as of
10 this time, that is the date it has to be implemented.

11 COMMISSIONER GILINSKY: Does it look as if
12 equipment will be developed and produced?

13 MR. EISENHUT: It is still the schedule we said
14 before. We are still shooting for 1/1/82.

15 MS. KERRIGAN: Westinghouse has supplied Salem
16 with a generic design and Salem is taking a month to adapt
17 it to their particular plant.

18 MR. ROSS: We did send the Commission an
19 information report a couple of months ago on it which was a
20 status of research.

21 CHAIRMAN AHEARNE: I wouldn't say it was one that
22 was filled with optimism.

23 MR. ROSS: It was not an optimistic report. I
24 would expect to update that in about two or three more
25 months because there are active tests at Oak Ridge on the

1 combustion principle. We have a test which has not yet been
2 evaluated although the data is available on the Westinghouse
3 method, and the semi-scale testing on the Westinghouse
4 system also. I think probably by spring, March or April, we
5 would have a much better idea of feasibility. In the
6 meanwhile the utilities are going full speed.

7 COMMISSIONER GILINSKY: Going at full speed doing
8 what?

9 MR. ROSS: Buying equipment.

10 CHAIRMAN AHEARNE: As I understood it at least out
11 of those reports the sense that I would get is that it isn't
12 question of people being unwilling to put in equipment. The
13 question is trying to get agreement that here is a piece of
14 equipment that is worth putting in.

15 MR. ROSS: That is correct except for B&W. For
16 B&W plants we don't have the agreement in principle even.

17 COMMISSIONER GILINSKY: Does it look as if there
18 is a design that will work satisfactorily?

19 MR. ROSS: Yes. Two designs. I think that either
20 the heated thermocouple or the vessel Delta P system will be
21 found to work. They would like the integral test to prove
22 it because you could take the wrong step with an erroneous
23 piece of equipment. Yes, I am optimistic that either of
24 these systems will function. When you turn off the pumps
25 the PWR is just another BWR, so to speak, under the

1 scenarios we are talking about and they measure liquid level
2 all the time. They run on it. So I don't have any reason
3 to believe it won't work.

4 (Slide.)

5 MS. KERRIGAN: Let's go on with the emergency
6 preparedness. They do have an interim TSC which meets all
7 of our requirements and an interim EOF which meets all of
8 our requirements.

9 CHAIRMAN AHEARNE: Where is the EOF?

10 MS. KERRIGAN: The EOF is in Quinton, New Jersey,
11 which is 12 miles from the site. They are still awaiting
12 the final issuance of NUREG 0696 so they can plan their
13 final facilities.

14 The status of the emergency plan at Salem is
15 summarized on the slide. There are a few deficiencies left
16 in the on-site plan and they are expecting those to be
17 corrected within the next week or two.

18 We still need to get FEMA findings from the state
19 plans and run the emergency drill on that.

20 CHAIRMAN AHEARNE: You have someone from FEMA here.

21 MS. KERRIGAN: Yes, John Dickie from FEMA is here.

22 CHAIRMAN AHEARNE: Perhaps we could get a summary
23 from him.

24 COMMISSIONER GILINSKY: Let me ask, when I visited
25 the center they said that it take four hours to activate the

1 offsite facility.

2 MS. KERRIGAN: I had someone look into that.

3 COMMISSIONER GILINSKY: Is that what we expect?

4 MS. KERRIGAN: No, no.

5 COMMISSIONER GILINSKY: I may have misunderstood
6 the number, but I thought that is what I was told.

7 MR. DICKIE: May I have the question again,
8 please? What was the question?

9 CHAIRMAN AHEARNE: He was saying how long does it
10 take to get the offsite facility activated?

11 MR. PRIEBE: Right, I think I can answer that.
12 Ray Priebe. I am the staff reviewer for the Salem emergency
13 plan.

14 Literally it will take probably three to four
15 hours to fully staff the offsite emergency operations
16 facility. However, that is not to say that the functions
17 that would normally be performed by that facility cannot be
18 done until that time.

19 At the onset of an emergency, of course, the
20 initial response is from the senior shift supervisor which
21 they call the emergency duty officer who is subsequently
22 relieved by the senior plant staff member who would function
23 out of the Tech Support Center until he could be relieved by
24 that transfer of functions to the offsite EOF.

25 Now, we do require that the director of the

1 emergency offsite facility be available within an hour.
2 However, the full staffing of that center requires a large
3 number of corporate people to come down from Newark and that
4 may take three to four hours. However, the functions would
5 begin immediately.

6 CHAIRMAN AHEARNE: The time lag is the time to get
7 from Newark down to the location?

8 MR. PRIEBE: Primarily, yes.

9 CHAIRMAN AHEARNE: I think TVA would probably have
10 an answer to that.

11 COMMISSIONER GILINSKY: When you say the functions
12 would be performed, what functions are you talking about,
13 recommending public protection?

14 MR. PRIEBE: Right, interface with the offsite
15 support agencies which could include recommending offsite
16 protective measures and radiological assessment.

17 John.

18 MR. DICKIE: Thank you for the opportunity to
19 address the Commission. I am the Director of Radiological
20 Emergency Preparedness for FEMA.

21 What we have been trying to do is to make sure
22 that both New Jersey and Delaware offsite work in tandem.

23 Let me give you the key dates. We did find out
24 this morning through Janice that the state has indeed sent
25 the plans to FEMA. We had planned to get them on Friday but

1 they have sent them today to the Regional Assistant
2 Committees.

3 CHAIRMAN AHEARNE: Both regions.

4 MR. DICKIE: Actually Delaware got theirs on the
5 29th of December. So the next then is for the RAC, Regional
6 Assistant Committees to meet and comment on those and that
7 we are expecting around 17 to 18 February for comments back
8 to the states, to the state and local by 18 February.

9 After those comments are given back to the state
10 the schedule gets a little vague because of the time the
11 state may need to correct any deficiencies that are noted.
12 But we are shooting for a joint exercise with the close
13 cooperation of the NRC and FEMA with the licensee and the
14 state, both Delaware and New Jersey, somewhere near the end
15 of March. If that could be accelerated pending comments
16 back from the states on the comments that we gave them we
17 will try to do that.

18 CHAIRMAN AHEARNE: Now, in New Jersey's
19 transmission, has New Jersey approved the plan as far as New
20 Jersey is concerned?

21 MR. DICKIE: I don't know that we would use the
22 term "approve the plan." These things are running in
23 tandem. They just got the plan from the contractor
24 themselves. Part of the FEMA role through the RAC system is
25 to assist the states in developing the plans. So we are in

1 that iteration right now. There is a dialogue. So we do
2 not have a formal Governor submitted approved state plan but
3 we are still doing our thing.

4 You know, once you have the exercise then there is
5 a public meeting that is required. So we are talking a
6 schedule that would be compiled and a determination by FEMA
7 and then transmittal to the NRC for your finding. So the
8 benchmark we are shooting for now, at least the main
9 benchmark is the joint exercise in the latter part of March.

10 CHAIRMAN AHEARNE: I would gather then, assuming
11 that things were acceptable, then sometimes towards the end
12 of April you might be in a position to say everything is
13 acceptable?

14 MR. DICKIE: I would imagine so. In our joint
15 rules we have a 21-day period for the determination from the
16 state to the Associate Director of FEMA before we transmit
17 it to you. Based on everything working right then April
18 does sound good.

19 COMMISSIONER GILINSKY: So how did we manage to
20 work things more rapidly in one of the earlier cases?

21 MR. DICKIE: I am not sure what you are referring
22 to, sir.

23 COMMISSIONER GILINSKY: The North Anna case.

24 CHAIRMAN AHEARNE: I think the State had
25 previously reached agreement on what the plan was.

1 COMMISSIONER GILINSKY: I see. The only thing
2 that remained was the exercise.

3 CHAIRMAN AHEARNE: The only thing was actually to
4 do the exercise.

5 COMMISSIONER GILINSKY: I see.

6 MR. DICKIE: Well, my understanding, and I was not
7 here at the time, but we would not like to have the same
8 process occur through the FEMA at least as occurred in North
9 Anna.

10 COMMISSIONER BRADFORD: That is the business of
11 having the signoff within a day of the exercise.

12 MR. DICKIE: Well, we never did approve the plan.

13 COMMISSIONER BRADFORD: I see.

14 MR. DICKIE: The license was granted and we are
15 still waiting for Virginia to provide us their corrected
16 plan. We would not like that to happen in this case.

17 COMMISSIONER GILINSKY: What in fact had you done?

18 MR. DICKIE: Excuse me, sir?

19 COMMISSIONER GILINSKY: What in fact had you
20 done? Was there any sort of preliminary approval or
21 tentative approval in the case of Virginia?

22 MR. DICKIE: I am sorry, I was not here then. I
23 am new and I don't know the specifics of that, but my
24 understanding is that there was indeed some dialogue
25 working. In fact, I think Shelley would probably address it

1 better than I because he was acting prior to me.

2 MR. DENTON: I think it was recognized at the time
3 by FEMA that there were some things that still required
4 correction but nonetheless they gave us a letter that in
5 effect indicated their concurrence.

6 MR. SCHWARTZ: Shelley Schwartz now with the NRC
7 Division of Emergency Preparedness in ICE.

8 At the time we worked with the State of Virginia
9 and based on ---

10 COMMISSIONER GILINSKY: Let's see, were you then
11 over at FEMA?

12 MR. SCHWARTZ: Yes. I was then on loan from NRC
13 at FEMA at the time.

14 At that time we worked with the State of Virginia
15 and VEPCO at NRC. As a result of the exercise there were
16 still some procedures that needed development by the state.
17 As part of the license that was issued by NRC there were
18 conditions that the state would provide the necessary papers
19 and procedures to NRC to be reviewed. That period of time I
20 believe was about three months. So the state and the local
21 government should have by this time provided FEMA these
22 updated documents for their review.

23 COMMISSIONER GILINSKY: But didn't FEMA send us a
24 letter discussing the state of emergency preparedness and
25 approving ---

1 MR. SCHWARTZ: Not approving, sir, but a letter
2 that ---

3 COMMISSIONER GILINSKY: --- our going forward with
4 the license or recommending or at least indicating no
5 objection to going forward?

6 MR. SCHWARTZ: That is correct.

7 COMMISSIONER GILINSKY: Which of those?

8 (Laughter.)

9 MR. SCHWARTZ: A letter was sent from FEMA to NRC
10 that said we have these outstanding items based on the
11 exercise the state can perform and the locals can perform in
12 the event of an emergency and we are waiting for these other
13 procedures to perfect the plan. It is not the
14 administrative process that FEMA has in their proposed rule
15 that lays out a rigorous approval process that ends with an
16 approval by the Associate Director for plans preparedness at
17 FEMA which is an ongoing process right now.

18 COMMISSIONER GILINSKY: I see. And Virginia does
19 not yet have an approved emergency plan, a plan approved by
20 FEMA?

21 MR. SCHWARTZ: To my knowledge, not yet.

22 COMMISSIONER GILINSKY: Could someone let us know
23 the status of that? I don't mean necessarily right now.

24 MR. SCHWARTZ: I think we should report back to
25 the Commission on that.

1 CHAIRMAN AHEARNE: Any other questions on Salem?

2 (No response.)

3 (Slide.)

4 MS. KERRIGAN: Slide 13 lists the status of
5 Attachment 1 to the license in the package that we sent down
6 here. We had an Attachment 1 to the front of the license
7 that said these items will be completed prior to issuance of
8 the license. All items on that list have been completed
9 with the exception of the emergency planning items and the
10 report that we discussed before that has to come in that we
11 are delaying a month.

12 (Slide.)

13 On the next slide, on Slide No. 14 as we mentioned
14 a little bit earlier we did find a couple of mistakes in the
15 draft license. We had given them a little too much time to
16 install their containment water level and we bumped that
17 back, and the masonry wall, there was a misunderstanding
18 and that is delayed until first refueling. We have been
19 getting the editorial comments back from OPE but they are
20 editorial in nature and they do not change the content of
21 the license.

22 Finally, our recommendation is that a full power
23 license should be authorized following successful completion
24 of the emergency preparedness items.

25 I believe that is the end of my presentation.

1 CHAIRMAN AHEARNE: I have two other questions.

2 First, I noticed that in a number of places in
3 here in the description the statement is made that I&E will
4 verify it or I&E will check it. Is there something that I&E
5 is aware of that they are to check? Is there some list of
6 things that I&E has that, yes, here is a transfer to I&E
7 responsibility?

8 MS. KERRIGAN: Yes, sir, it is all in the
9 license. Every item that is to be completed by five percent
10 or 60 days, whatever, is listed in the license so that I&E
11 has a handy guide to check off the items.

12 COMMISSIONER BRADFORD: What is served by the
13 formulation to be completed before five percent or that they
14 are authorized to go to five percent at present?

15 MS. KERRIGAN: That is right.

16 COMMISSIONER BRADFORD: So what you are really
17 saying then is before issuance of the next license?

18 MS. KERRIGAN: No, sir, we are saying prior to
19 operation above five percent power. A lot of these were
20 carried over from the fuel load license. In that we
21 recommended that they be granted a license. There are some
22 actions, and maybe Leif has the status of some of those
23 actions. It was my understanding that a lot of those items
24 are very near completion but we don't have the I&E signoff
25 and we just want to make sure that some of that stuff

1 doesn't fall in a crack.

2 MR. DENTON: I think it is partially the fact that
3 they have to try to prepare the license before they have
4 actually finished every little detail. Otherwise if you
5 wait until every detail is wrapped up then you have to wait
6 an extra length of time to produce the paperwork and so
7 forth. So it is an attempt to put everything in writing
8 before and then you rely on I&E to be sure that those things
9 identified do get resolved.

10 COMMISSIONER BRADFORD: Its practical effect
11 though is that before they can do any more than they can do
12 wright now they have to have done these things.

13 MS. KERRIGAN: That is right.

14 MR. EISENHUT: That is right. In fact, another
15 way around it is since we may be talking a couple of months
16 for emergency preparedness as an item would get completed we
17 would go ahead and as we get verification from I&E it is
18 completed we would be deleting them from the license.

19 MR. DENTON: In fact based on the kind of schedule
20 we have heard today I would expect a lot of these would be
21 completed.

22 CHAIRMAN AHEARNE: Let me ask this to see if I
23 can't get a little more specific. I am wondering how the
24 following sentence gets translated into something. This is
25 talkin about engineered safety features and reset controls.

1 It says "The Office of Inspection and Enforcement will
2 verify that these actions have been completed prior to
3 exceeding five percent power."

4 Now, what kind of a system is in place that alerts
5 I&E to know that NRR has made a commitment?

6 MS. KERRIGAN: It is in the license.

7 MR. DENTON: Let me describe the general way. We
8 give copies of our SER to the resident inspectors and we
9 have always given them to I&E over the years so they in
10 essence know what assignments they have got as we finish
11 the review. Then we get a formal letter from I&E prior to
12 the issuance, for example, of an operating license that they
13 have satisfactorily resolved those issues that remain
14 outstanding. So that is the general case and I will let
15 Janice and Leif talk about how this one has worked.

16 MS. KERRIGAN: Leif, do you have anything to add?

17 MR. NORHOLM: What will happen prior to a license
18 actually being issued is that we will transmit letters
19 confirming that actions have been taken and that they can be
20 deleted from the license. That particular item is a
21 condition of the license presently.

22 After the license is issued, and this was the case
23 in the five percent license, there were conditions to be met
24 prior to the core load. All those were confirmed by I&E and
25 documented in appropriate inspection reports. The license

1 conditions serve as a handy check list to ensure that those
2 items are completed.

3 CHAIRMAN AHEARNE: So that whenever in here there
4 is a statement that I&E will verify that relates in some way
5 to an explicit condition that is in the license?

6 MS. KERRIGAN: Yes, sir.

7 CHAIRMAN AHEARNE: The other question was, and I
8 am not sure whether it is Harold or Leif or someone from
9 I&E, could you talk about this particular utility's ability
10 to run a plant?

11 COMMISSIONER GILINSKY: You are referring to this
12 systematic assessment ---

13 (Laughter.)

14 I am willing to lump it in with your question if
15 that is what you are referring to.

16 MR. NORHOLM: One way of determining their ability
17 to run a plant is reference to the systematic assessment a
18 licensee performs.

19 MS. KERRIGAN: Do you need a slide, Leif?

20 MR. NORHOLM: Why don't you put the first one up.

21 MS. KERRIGAN: Could you put up back-up slide 15.

22 (Slide.)

23 MR. NORHOLM: This is a new technique being used
24 by the regional offices to look at licensee performance
25 looking at their inspection history for a period of 12

1 months. Generally it is conducted by senior regional
2 management with input from resident inspectors.

3 In the case of Salem this is conducted in October,
4 and, by the way, the first round of these evaluations is not
5 complete in Region I yet. We did look at Salem 1 and 2
6 covering the period of September 1st, '79, until August 1980
7 and the evaluation was done in October.

8 We looked at 19 functional areas and again we
9 looked at both units. Of those 19 the conclusions reached
10 by the SALP essentially are was licensee performance
11 satisfactory or unsatisfactory in an area, was licensee
12 performance acceptable at the end of the evaluation period,
13 particularly if we found unsatisfactory performance during
14 the year, and finally what change in the application of
15 resources by I&E was dictated by the findings, either an
16 increase or a decrease in the inspection effort in that area
17 because of the types of items found.

18 If you would like, I can go into the details of
19 the eight areas which were identified as needing increased
20 inspection effort for Salem.

21 CHAIRMAN AHEARNE: Why don't you.

22 MS. KERRIGAN: Would you put on back-up slide 16.

23 (Slide.)

24 MR. NORHOLM: This slide lists the 19 areas that
25 we addressed and the eight that indicated that we should

1 have increased inspection effort for plant operations,
2 surveillance, reporting, design changes and modifications,
3 radiation protection, radioactive waste management, security
4 and safeguards and management controls.

5 Management controls tends to be a catch-all. If
6 we have that many areas that need attention then management
7 controls also need attention.

8 CHAIRMAN AHEARNE: I recognize that it is not a
9 total I&E normed program, it is a regional program, nor, as
10 you say, has it even been normed within the region.

11 MR. NORHOLM: Right.

12 CHAIRMAN AHEARNE: Nevertheless, at least looking
13 at this particular plant the the I&E regional conclusion is
14 that the total inspection effort has to be increased because
15 there are no decreases.

16 MR. NORHOLM: Let me explain that a little more.
17 We did make the conscious determination that licensee
18 performance at the end of the period was satisfactorily
19 acceptable. We made that on the basis that those areas
20 where we had identified concerns over the 12 months
21 appropriate corrective action had been initiated and in many
22 cases completed.

23 So the purpose of increasing the inspection effort
24 is confirmatory in nature. We expect that we won't find
25 problems but we need to confirm that.

1 CHAIRMAN AHEARNE: All I was trying to do is to
2 look at if you have a finite amount of resources. You are
3 going to increase the effort in one place. Although perhaps
4 it has not been a normed approach, nevertheless something
5 has got to decrease.

6 MR. NORHOLM: Right, I agree.

7 CHAIRMAN AHEARNE: So that has to mean at least in
8 this case there is an increased concern.

9 MR. NORHOLM: That is correct. What we are really
10 trying to do is to determine the areas that need to be
11 focused on. The inspection effort is both regional based
12 and it is to resident inspectors and we can certainly cause
13 our focus to be on these particular items.

14 MR. DENTON: There has been a company
15 reorganization, too, at about that same time to increase the
16 management attention to nuclear operations within the
17 company.

18 MR. NORHOLM: That is right.

19 MR. DENTON: I assume that is part of the
20 corrective action.

21 MR. NORHOLM: Right.

22 CHAIRMAN AHEARNE: Is the plant totally a PSE&G
23 plant?

24 MR. NORHOLM: It is totally operated by PSE&G.

25 CHAIRMAN AHEARNE: Totally owned?

1 MR. NORHOLM: No. The ownership is split with
2 Philadelphia Electric, Atlanta City and Delmarva.

3 CHAIRMAN AHEARNE: Are Salem plants the only ones
4 the company owns, nuclear plants?

5 MR. NORHOLM: The only operating plants. Oak
6 Creek right next door is under construction.

7 CHAIRMAN AHEARNE: How long have you been there?

8 MR. NORHOLM: I have been on site two and a half
9 years. I have been inspecting Salem for three and a half
10 years.

11 CHAIRMAN AHEARNE: What is your personal judgment
12 on the operation of the plant?

13 MR. NORHOLM: Overall I think they have been
14 learning for the last five years.

15 CHAIRMAN AHEARNE: We all have.

16 MR. NORHOLM: The reorganization indicates that
17 they have learned some lessons and I think from here on in
18 should make a presentable appearance as far as bodies like
19 this.

20 MR. DENTON: My own view from the time we sort
21 began the OL review of that company going back about a year
22 is that they were entirely too thrifty in the resources they
23 had assigned to the operation. I think over the past year
24 through the licensing review we have tended to demand more
25 from them and they have come to see this and the

1 reorganization sort of reflects it and improvements are
2 definitely noted.

3 I think if you go back about a year it was
4 operated with what I would consider limited resources
5 devoted to the plant throughout. I am not just talking
6 about a licensed operator but it just didn't seem that they
7 had given the amount of attention to operations and we now
8 see as necessary.

9 CHAIRMAN AHEARNE: This reorganization you are
10 talking about basically did what?

11 MR. NORHOLM: Two basic changes occurred. Prior
12 to the reorganization the station manager reported to a
13 general manager who had all stations, fossil or nuclear,
14 reporting to him. They have now made a split between the
15 nuclear and fossil electric generation organizations at the
16 general manager level.

17 The other significant change is to reorganize
18 quality assurance to make it a single organization reporting
19 at a higher level of management than it did before.

20 MR. DENTON: This is a large company with
21 considerably engineering resources. I think Janice or
22 Darrell can add their comments, but I just didn't see that
23 they were bringing to bear on plant operations the resources
24 that the company really possessed and that was part of our
25 effort over the review effort to be sure that turned around.

1 CHAIRMAN AHEARNE: Darrell.

2 MR. EISENHUT: Well, I guess I probably ought to
3 make several comments.

4 First, addressing the specific issue here, I guess
5 I second what has been said. The problem as I saw it over
6 the last year or so was here is a very large company with
7 lots of capability and lots of potential, yet we were still
8 having difficulties as we went through the process of
9 getting really an issue resolved until it was brought to the
10 right level of high enough management attention.

11 By and large I am optimistic that the
12 reorganization of last fall will help to address that. The
13 other thing that will help address it is our continuing to
14 follow this. You know, if I see the problem come up again
15 we will have the appropriate management level meeting to try
16 to get it addressed.

17 So I am encouraged that the reorganization I think
18 will address this. As Leif said, I think things are
19 improving.

20 MR. DENTON: I can't help but observe that the
21 chief nuclear person in the company, Mr. Snyder is not here
22 today. I had hoped that he would have been here to attend
23 this very important meeting. It has been an ongoing issue
24 within the staff to raise our sensitivity to operational
25 concerns.

1 COMMISSIONER GILINSKY: He is the man in charge of
2 nuclear operations?

3 MR. DENTON: Yes.

4 MR. NORHOLM: He is the senior vice president in
5 charge of production.

6 COMMISSIONER GILINSKY: In charge of fossil or
7 nuclear?

8 MS. KERRIGAN: Production. Mr. Mettel who is at
9 the same level as Mr. Snyder in the organization is on the
10 licensing side of the house. He is responsible for Salem
11 Unit 2. Mr. Snyder is on the operations side of the house.

12 COMMISSIONER GILINSKY: Can I ask you in the I&E
13 assessment under plant operations, the report speaks of
14 operator attitudes and inattention, is that control room
15 operator or operator as the utility?

16 MR. NORHOLM: Actually both, but the control room
17 operator is the one that comes to mind most of the time.

18 COMMISSIONER GILINSKY: Has that turned around
19 sufficiently?

20 MR. NORHOLM: There were significant attitude
21 problems when the licensee attempted to work 12-hour shifts
22 by scheduling eight and the extra four came out of whoever
23 could be forced to work. Since he has scheduled 12-hour
24 shifts things seem to be a lot better in terms of attitudes
25 of the operators in preparation to work 12 hours and knowing

1 full well that when they say two days off they mean two days
2 off.

3 COMMISSIONER GILINSKY: Is it as simple as that?

4 MR. NORHOLM: The two go together. There is an
5 improvement in attitude and there is an improvement in
6 attention by the operators. They also are getting, as you
7 saw by the numbers, more people available to work. I think
8 it has gotten better.

9 COMMISSIONER GILINSKY: How frequently are these
10 assessments made?

11 MR. NORHOLM: We intend to do another one about
12 April 6th which will be six months after the previous one.
13 They will look at a year in overlapping intervals.

14 COMMISSIONER GILINSKY: In this case you mean
15 fairly soon?

16 MR. NORHOLM: For this particular plant we will
17 have one in April.

18 CHAIRMAN AHEARNE: Why is that?

19 MS. KERRIGAN: That was at the specific request of
20 the Salem management. I think that Mr. Eckert asked for a
21 review very quickly, as soon as possible afterwards. He was
22 very concerned when we did give him the results and he asked
23 us to specifically come back and prove that they could turn
24 themselves around.

25 CHAIRMAN AHEARNE: I see.

1 COMMISSIONER BRADFORD: How quickly would you have
2 normally done it?

3 MR. NORHOLM: Well, the original intent was to do
4 them every six months. I don't know if we are able to hold
5 to that schedule. We do intend to for Salem to do another
6 full review in April.

7 CHAIRMAN AHEARNE: Darrell, did you have anything
8 else?

9 MR. EISENHUT: First, our overall program is that
10 once a year on all operating plants and all plants under
11 construction there will be some form of a SALP review.

12 Now, just a couple of notes of caution, and Jim
13 Taylor is not here -- I&E was going to be here I thought to
14 address this. We have in headquarters a review group.

15 CHAIRMAN AHEARNE: You weren't implying that if he
16 were here you wouldn't say it?

17 (Laughter.)

18 MR. EISENHUT: No. I would try to let him say it.

19 We have a review group in headquarters who has two
20 functions. One function is to look at all of these SALP
21 reviews and the detailed back-up on them. The objective is
22 that we are going to come out and literally rate plants,
23 that is utilities, by average, above average and below
24 average. Those are the three groups we are looking at.

25 The second main function of this headquarters

1 group panel is to somehow normalize these different reviews
2 done around the country.

3 The group in headquarters consists of four
4 people. It consists of Jim Sniezek and Norm Mosely from
5 I&E, Carl Michaelson and myself. Now, that group will be
6 done these reviews and actually they have a three-man staff
7 who will be looking at the different plants trying to put
8 them in these schemes.

9 The other point to make is that the SALP as we go
10 down the road will not be just an I&E review, it will really
11 be an NRC review taking input from NRR, perhaps AEOD, et
12 cetera. The Project Manager, in this case Janice, will sit
13 on the board, actually the board meeting out at the utility.

14 The purpose of having the NRR input, for example,
15 is that the project manager will be drawing input from how
16 the other divisions perceive the utility's performance,
17 particularly Steve Hanauer's division. That is, a lot of
18 the utilities are doing a management review or a licensee
19 performance. So we are really integrating these into a set.

20 Now, the other thing to be cautious about when you
21 look at these increased or decreased inspections, first you
22 must remember the I&E inspection envelope allows some
23 fluctuation, increases or decreases, already.

24 The second thing to note is that if you have a
25 couple of very strong inspectors, which I happen to think in

1 this case we do have, you have better and stronger
2 inspection and you may in fact find more things.

3 A utility who is very, very vigilant about
4 reporting and looking very hard will submit more LERs and
5 more information. Therefore when you do the statistics,
6 whatever they mean, you can in fact infer some raw
7 conclusions.

8 COMMISSIONER GILINSKY: But we haven't been
9 talking here about statistics.

10 MR. EISENHUT: No, but the statistics are in fact
11 part of the base that goes into the SALP program.

12 COMMISSIONER GILINSKY: That is true but ---

13 MR. EISENHUT: It is a large piece of determining
14 whether or not you increase or decrease inspections.

15 COMMISSIONER GILINSKY: The more significant
16 comments from my point of view and the more disturbing ones
17 are ones about company attitude.

18 MR. EISENHUT: Oh, certainly, I agree with that.
19 I am just saying that it varies tremendously though from
20 plant to plant. Many of the SALP reviews from a region are
21 based very largely on statistics. We all have that same
22 caution.

23 So there is considerably flexibility in the
24 interpretation of the actual make-up of the members as to
25 what constitutes increase or decrease. For example, the

1 headquarters panel has now looked at, it is either eight or
2 nine plants, that is looked at the reviews done, and I think
3 everyone concluded that there has to be increased inspection
4 in several areas.

5 It gets back to the same question the Chairman
6 raised. If every one of these conclude that you have to
7 increase inspection in three, four, five and up to nine and
8 ten areas maybe the norm is somewhere adjusted wrong. It is
9 just a note of caution that we as a panel have looked at
10 these and feel the same conclusion you mentioned.

11 The actual item-by-item conclusion of increase
12 inspection here, increase it there and increase it there
13 really does not carry that much weight with us. It is
14 really the overall underlying management attitude and the
15 management approach which seems to be there in the bottom of
16 every one of these and not just these areas but even the
17 areas that we have discussed earlier, for example,
18 environmental qualification. It took us a long period of
19 time to work the issue out.

20 COMMISSIONER GILINSKY: It would not be good if
21 the next review concluded that the plant operations category
22 was unsatisfactory.

23 MR. EISENHUT: Absolutely. I agree with you.
24 That is our point.

25 COMMISSIONER GILINSKY: However you define the

1 elements that enter into that.

2 MR. EISENHUT: That is right.

3 MR. NORHOLM: I can say now since there are only
4 six weeks left in the review period that there probably
5 won't be an increase.

6 MR. EISENHUT: Then you get back to the other
7 system. I&E, I don't believe, if they would have a problem
8 with the management of the plant, and NRR, if we had a
9 problem for our management reviews, we would be recommending
10 a license without some additional steps independent of the
11 SALP review.

12 COMMISSIONER GILINSKY: I understand that but it
13 is important that that level of performance and rate of
14 improvement continue.

15 CHAIRMAN AHEARNE: We are also I think as an
16 agency still developing what kind of approaches we take in
17 overall management. So we are still trying to fit all these
18 pieces together.

19 MR. EISENHUT: It is very complicated.

20 MR. NORHOLM: One comment I would like to make on
21 the corrective actions taken by the licensee, in most of the
22 areas listed the corrective action is addressed at the
23 corporate level or at the station level in terms of
24 procedure or practice or something like that. The benefits
25 would accrue to both units. So that the addition of Unit 2

1 doesn't really impact on that.

2 CHAIRMAN AHEARNE: I wonder if you could give me a
3 little chart which would show me what is the organizational
4 structure starting at the top of the corporation.

5 MS. KERRIGAN: All right.

6 MR. DENTON: Mr. Chairman, I would suggest that it
7 would be useful to the staff to get any comments on any
8 areas other than emergency planning as they are developed
9 and see if we can't complete our documentation of the review
10 of the license so that when the emergency plan issue is
11 concluded that will be the only issue that would still be
12 open.

13 CHAIRMAN AHEARNE: Vic?

14 COMMISSIONER GILINSKY: I don't have any major
15 questions I feel need to be resolved. In visiting the plant
16 one of the things that surprised me is a lot of the
17 equipment that would otherwise be in covered buildings is
18 out in the open. Does that pose any safety problems?

19 MS. KERRIGAN: We have looked at turbines and we
20 have looked at the cracking of turbine disks and we
21 concluded that there was no action that needed to be taken.
22 We asked them to inspect those turbines in their second
23 refueling.

24 MR. EISENHUT: That is not uncommon. In fact,
25 quite a number of the southern plants have a lot of them

1 outdoors.

2 COMMISSIONER GILINSKY: Well, I have seen it in
3 California. I just haven't seen it in the Northeast.

4 MR. EISENHUT: A lot of the things, particularly
5 the turbines outside is pretty common.

6 COMMISSIONER GILINSKY: No, I don't have any
7 further questions.

8 CHAIRMAN AHEARNE: John?

9 COMMISSIONER HENDRIE: I don't have any
10 questions. I commend the staff for a very well prepared
11 briefing this morning and would be happy to leave the matter
12 with the Commission leaving it to Harold to find a
13 satisfactory completion of the emergency planning
14 requirements and he can issue it at his discretion
15 thereafter. I don't feel the need to see it again.

16 CHAIRMAN AHEARNE: Peter, questions?

17 COMMISSIONER BRADFORD: No further questions now,
18 John. I don't have any concerns that in any way outpace the
19 emergency planning concern. I would be interested to see
20 the SER on equipment qualification but that will clearly be
21 over and done with long before the emergency planning matter
22 is laid to rest.

23 I would to at least see the FEMA conclusions
24 following the emergency planning drill before signing off on
25 it once and for all, but short of that I don't have any

1 difficulty with the staff recommendation.

2 CHAIRMAN AHEARNE: Let's see. I am not sure then
3 if I completely understand how you would then leave it.

4 Joe has proposed that we approve the license. I
5 think what Joe has proposed is agreeing to Harold's
6 recommendation which is approve the operating license
7 conditional upon the successful completion of emergency
8 preparedness. Upon that successful completion Harold could
9 go ahead and issue it.

10 MR. DENTON: Yes, that is our recommendation.

11 CHAIRMAN AHEARNE: That is your recommendation and
12 Joe has said that he would concur in that.

13 Now, what is your proposal?

14 COMMISSIONER BRADFORD: I took it that Joe went a
15 step further and said that for his part he was approving
16 emergency preparedness, too, unless Harold came back and
17 said there is something wrong here.

18 COMMISSIONER HENDRIE: Approving issuance of the
19 license without the Commission having to hear it again,
20 leaving it to Harold to conclude that the emergency planning
21 is in satisfactory shape and all the requirements of FEMA
22 are met.

23 COMMISSIONER BRADFORD: We may not be saying
24 anything different. I just wouldn't conceptually turn loose
25 of the Commission's hold on the license until we have the

1 FEMA letter in hand. I don't know that that requires
2 another meeting or anything of that sort but I would wait
3 until that point.

4 CHAIRMAN AHEARNE: Would it be correct to say that
5 you would be satisfied with whatever mechanism that SECY or
6 OGC could come up with that a notational agreement would be
7 adequate without going through a full meeting again? Is
8 that correct?

9 COMMISSIONER BRADFORD: Yes.

10 CHAIRMAN AHEARNE: I am just trying to make sure
11 we get the procedure correct.

12 COMMISSIONER BRADFORD: That is perfectly fair. I
13 assume it allows obviously if emergency preparedness turned
14 out to be a nightmare we would have a meeting if we had to,
15 but sure.

16 CHAIRMAN AHEARNE: Well, I assume if it did that
17 Mr. Dickie or his cohorts and Mr. Denton would be back up
18 here and telling us that.

19 COMMISSIONER BRADFORD: Sure. The way you have
20 stated it does not give me any difficulty.

21 CHAIRMAN AHEARNE: Victor?

22 COMMISSIONER GILINSKY: Well, I don't see a need
23 for a further meeting but I guess I would put off an
24 affirmation vote until everything is in order.

25 CHAIRMAN AHEARNE: An affirmation vote would be a

1 meeting.

2 COMMISSIONER GILINSKY: I mean not a meeting
3 dealing with the details of the license.

4 CHAIRMAN AHEARNE: So you would not go as far as
5 Peter would go?

6 COMMISSIONER GILINSKY: Well, I think that the
7 Commission to give its approval has to vote and I would
8 leave the formal vote to the time when we are ready to deal
9 with it. As far as I am concerned in the areas other than
10 emergency planning I am satisfied.

11 CHAIRMAN AHEARNE: Harold, I think where we have
12 come out is that all four of us are in agreement on all
13 aspects of it other than the emergency plan. I think we
14 will have to wait and see. Once the emergency plan comes in
15 I would conclude that if there are no real problems that it
16 will need at most for you to come down and tell us that and
17 it may not even require that much of a procedure. If there
18 are problems, clearly we all would want to revisit it. With
19 the exception of that I think that we are all in agreement.

20 MR. DENTON: We will proceed with that
21 understanding.

22 COMMISSIONER GILINSKY: As far as the
23 non-emergency planning aspects of it the Commission has
24 clearly concluded it is satisfied.

25 CHAIRMAN AHEARNE: There are various pieces, as

1 Jim has said, that have to be put into the SER, but those
2 are wrapping up pieces.

3 All right. Thank you, Janice and Harold.

4 Thank you very much.

5 (Whereupon, at 11:45 a.m., the meeting concluded.)

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NUCLEAR REGULATORY COMMISSION

This is to certify that the attached proceedings before the
COMMISSION MEETING

in the matter of: Public Meeting - Discussion and Vote on Full Power
Operating License for Salem

Date of Proceeding: January 14, 1981

Docket Number: _____

Place of Proceeding: Washington, D. C.

were held as herein appears, and that this is the original transcript
thereof for the file of the Commission.

Mary Simons

Official Reporter (Typed)

Mary C Simons

Official Reporter (Signature)