NUCLEAR REGULATORY COMMISSION

ORIGINAL

COMMISSION MEETING

In the Matter of: PUBLIC MEETING

STATUS OF STAFF CERTIFICATION ON LICENSEE COMPLIANCE WITH RESTART REQUIREMENT ON TMI-1

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1	UNITED STATES OF AMERICA
2	NUCLEAR REGULATORY COMMISSION
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4	STATUS OF STAFF CERTIFICATION ON LICENSEE
5	COMPLIANCE WITH RESTART REQUIREMENT ON THI-1
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7	PUBLIC MEETING
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9	Room 1130 1717 H Street N.W.
10	Washington, D.C;
11	Weinesiay, October 6, 1982
12	The Commission convened on the above-entitled
13	matter at 3:05 p.m., pursuant to notice.
14	BEFORE:
15	NUNZIO PALLADINO, Chairman VICTOR GILINSKY, Commissioner
16	JOHN AHEARNE, Commissioner THOMAS ROBERTS, Commissioner
17	JOHN ASSELSTINE, Commissioner
18	STAFF AND PRESENTERS SEATED AT COMMISSION TABLE;
19	S. CHILK, Secretary L. BICKWIT, General Counsel
20	D. EISENHUT, NRR R. JACOBS, NRR
21	R. JARUSDICKI, Region I
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DISCLAIMER

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The transcript is intended solely for general informational purposes. As provided by 10 CFR 9.103, it is not part of the formal or informal record of decision of the matters discussed. Expressions of opinion in this transcript do not necessarily reflect final determinations or beliefs. No pleading or other paper may be filed with the Commission in any proceeding as the result of or addressed to any statement or argument contained herein, except as the Commission may authorize.

PROCEEDINGS

2 CHAIRMAN PALLADINO: The meeting will please 3 come to order.

1

The subject of the meeting this afternoon is 5 the Status of Staff Certification on Licensee Compliance 6 with Restart Requirements in TMI-1.

As you will recall, on August 9, 1979, the 8 Commission issued an order to the Licensee for TMI-1 9 requiring, among other things, accomplishment of certain 10 requirements as a condition for restart. These actions 11 were required to be completed to the satisfaction of the 12 Director of the Nuclear Reactor Regulation. However, 13 the order required the Staff to certify their 14 satisfaction to the Commission, and the Staff is here 15 today to discuss the status of their certification 16 activities.

17 Since the substantive matters of the items to 18 be discussed today are still before the Commission in 19 the TMI-1 proceeding, I would General Counsel to advise 20 us at any time if I discuss must be curtailed or 21 modified due to ex parte considerations.

Before we start, I believe it would be 23 appropriate to ask General Counsel to briefly outline 24 the nature of the issued that can or cannot be discussed 25 here today.

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Unless the Commissioners have other comments,
 I suggest we hear from Mr. Bickwit, and then turn it to
 the Staff.

MR. BICKWIT: Speaking generally, where the Board has decided on a given requirement, subject to Staff certification of that requirement, then the adequacy of the certification and questions relating to that matter can be discussed here. But the adequacy or yisdom of the requirement itself ought not to be discussed.

As in the case of the 0737 items, the Board has deferred to Staff and the Commission on matters which would normally be regarded not as mere is which would normally be regarded not as mere what the requirements, but as basic questions involving what the requirements ought to be and when they ought to he instituted, the Commission is free to discuss those matters with the Staff, the matters on which the Board has deferred to the Staff and the Commission. Where matters are outside the scope of the proceeding, the Commission and the Staff are free to discuss the matter.

In short, where the matter is one on which the 23 Board has decided, the matter ought not to be the 24 subject of discussion at this meeting, and anything is 25 fair game.

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1 COMMISSIONER GILINSKY: Now what does that 2 mean? 3 MR. BICKWIT: Do you want examples? COMMISSIONER GILINSKY: Give me an example. 4 5 Is that going to affect anything that Mr. Eisenhut is 6 going to say? MR. BICKWIT: No. 7 8 COMMISSIONER GILINSKY: I must confess that I 9 didn't follow that. 10 MR. BICKWIT: It is a very complicated 11 proceeding, and it is a complicated instruction, so we 12 will monitor it closely. COMMISSIONER GILINSKY: All right. 13 MR. BICKWIT: Perhaps the easiest thing is to 14 15 repeat the guidance. (General laughter.) 16 17 MR. BICKWIT: I will give you an example with 18 each. 19 COMMISSIONER GILINSKY: Why don't we just go 20 on. CHAIRMAN PALLADINO: May I suggest that the 21 22 best way to get the examples is to go on. COMMISSIONER GILINSKY: Wave your arms if you 23 24 think we are getting into a problem. 25 MR. BICKWIT: I far prefer that.

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1 CHAIRMAN PALLADINO: Okay, then, why don't we 2 proceed. I guess the meeting goes to Darrell Eisenhut. 3 MR. EISENHUT: Thank you. 4 Ccould I have the second slide, I guess it 5 is? 6 (Slide.) 7 In response to the Commission's request, we 8 are going to go through today a listing of the status of 9 the certification items and then at the end of that we 10 will go through briefly the overall status of a number 11 of other items that remain to be completed on this plant 12 also. 13 If I could have the next slide. (Slide.) 14 15 We find, based on the record in this case, 16 limiting the certification to the short-term 17 requirements as identified in the August 9, 1979, order 18 and the March 8, 1980, order, and any item the Board has 19 imposed as being a short term requirements that must be 20 certified prior to any decision. 21 The obvious prerequisites for this are that 22 first the utility has to complete the item, and then 23 after they have completed the item either Region I, IEE 24 headquarters in the area of emergency preparedness, or 25 NRR will either inspect or verify as appropriate the

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1 various items. At the conclusion of that, we would 2 reach the point where we would certify that all 3 outstanding items have been done. 6

4

25

(Slide.)

5 The next slide is a summary. Actually, the 6 next two slides could be looked at either way. Perhaps 7 I could go to the next slide, it would be a little 8 easier. If I could go to the next slide please.

9 (Slide.)

10 This is a breakdown of how you get 129 items. 11 CHAIRMAN PALLADINO: Incidentally, there was a 12 statement on your preceding slide that I thought was 13 important to highlight. I think it is the second item.

14 MR. EISENHUT: I will come back to that 15 slide. It is a little easier perhaps to do them in the 16 order if I could.

17 CHAIRMAN PALLADINO: Thank you.

18 MR. EISENHUT: To try to characterize what the 19 129 items are and where they came from, we have together 20 this little matrix. The number of items flowing from 21 the items in the order or the Board decision follow 22 pretty straightforward. Under items II A, B, C, and D, 23 those are the four partial decisions from the hearing 24 record.

The next thing on the table is the status as

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1 we see it, and this is the status as of a couple of 2 weeks ago from the utility at which time he had 93 3 complete. Appreciate that the numbers here evolve and 4 change as time goes on, as he completes more and more 5 items. 7

6 The NRC is reviewing these, as I indicated, 7 either Region I, or I&E in the area of emergency 8 preparedness, or NRR. The status of the NRR review is 9 on the right-hand side, where you see that we have now 10 completed 65.

11 COMMISSIONER AHEARNE: That is as of several 12 weeks ago?

13 MR. EISENHUT: That is as of a couple of weeks14 ago, yes.

15 COMMISSIONER ROBERTS: Is there clear 16 understanding on who has responsibility?

17 MR. EISENHUT: Yes, there is.

18 COMMISSIONER ROBERTS: Between the region and 19 NRR?

20 MR. EISENHUT: Yes, there is. We, in fact, 21 have an overall matrix that includes not only the 22 certification items but other items that don't need to 23 be certified. Rich Jurasdicki is here with me today 24 from Region I, who is in fact implementing the Region I 25 aspects. We do have representatives here today from I&E

1 in the area of emergency preparedness.

I think there is a pretty standard understanding that has been circulated and approved by all the Staff. The list gets very, very large when you block at the total number of items, not just the certification items.

7 If I could go back now to the previous slide.
8 (Slide.)

9 COMMISSIONER GILINSKY: Could you explain that 10 remark?

11 MR. EISENHUT: Yes. There are a large number 12 of items that need to be completed at the plant, and 13 there are what I will call sort of the traditional 14 things on an operating plant. There are a number of 15 NUREG-737 issues. There are a number of responses to 16 I&E bulletins, follow-ups, or items that fall out of 17 health physics appraisals, out of routine inspections, 18 follow-ups to licensee event reports. There is a list 19 of things that have been accumulated for all time since 20 March 28.

In fact, these certification items are a 22 subset of that. So what we tried to concentrate on here 23 is that subset, and the other items, you will see in a 24 moment, there is a quite lengthy list. But the key we 25 really focused on is items that had to be certified as

1 complete prior to any decision concerning lifting the 2 suspension. You will get a feeling for the magnitude of 3 this in just a little while. There are some other 4 items.

5 CHAIRMAN PALLADINO: Darrell, I don't 6 understand the "NRC Review Complete-Not Complete." Is 7 it 65 out of 93. The 65 and 54 seem to add up to 119. 8 MR. JACOBS: No, it is 129. Sixty-five and 9 64.

10 CHAIRMAN PALLADINO: Is that 64, I am sorry. 11 MR. EISENHUT: Yes, it is. Of the 129, 65 12 have been signed off.

13 CHAIRMAN PALLADINO: Thank you.

MR. EISENHUT: It is meant to be 64. In fact,
15 it is sort of an index, the way we follow progress in
16 this area.

17 If I could go back to the previous slide.
18 (Slide.)

19 The second bullet here points to --

I am sorry, back to the one entitled "Status 21 of Certification." There is one out of phase.

22 (Slide.)

23 Of the 64 that are not yet complete, four of 24 those items require power operation. They are items 25 that cannot be done prior to a decision. There are six

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1 items --

2 COMMISSIONER AHEARNE: Wait, the 64 are NRC 3 reviews.

MR. EISENHUT: Another way to put it. There 5 are four items in either the 36 and, therefore, in the 6 64 by definition, that require power operation. There 7 are six that require hot functional testing, and two 8 others that require verification at the time of 9 restart.

10 COMMISSIONER AHEARNE: I was noticing in the --11 MR. EISENHUT: Since they are all in the 36, 12 they are also in the 64. That is probably a better way 13 to say it.

Of the other remaining 52 -- That is taking the six, the four, and the two away from the 64, of the remaining 52, 19 are right now -- as of the time that we put this together, they were ready for Region I is inspection, 22 require GPU action before the NRC could get in the mode of doing an inspection. There were six that were resting NRR, and there were five that are now the fore I&E for action.

If I could go to two slides forward, to the 23 Schedule for Complete.

24 (Slide.)

25 The next question is, how are all these going

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1 to come together. This is a schedule both as the 2 utility has indicated this is how, and the schedule he 3 expects to resolve the 36 on. You can see that there 4 are a number of these that are going to be resolved --5 This schedule shows that by the end of January 1983 he 6 will have resolved all except those that are needed to 7 be done during hot functional testing.

8 The utility earlier today had indicated that 9 in fact the schedule for completion of those is right 10 now aiming more toward the end of December, rather than 11 the end of January 1983.

12 COMMISSIONER AHEARNE: There are no items in 13 your list, other than the order and the Board 14 requirements. There are additional certification 15 things, are there not, that you are checking on?

16 MR. EISENHUT: That are not --

17 COMMISSIONER AHEARNE: That are not in those 18 two bins.

MR. EISENHUT: Not officially the 20 certification items, but there are items that we are 21 following up, yes. If I could, I will get to those a 22 little bit later, in just a moment.

23 There are a couple of other things that you 24 don't see from this. There are items that the utility 25 cannot complete until the NRC takes an action also. We

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1 sort of have it in a catch-22, where we must approve his 2 technical specifications, for example, in a couple of 3 areas, which constitutes a couple of these items, before 4 he can modify his procedures, before the Region can sign 5 off and complete them.

6 We are trying to be pretty sensitive to those 7 and, again, today, I have asked the utility to identify 8 any of those where we are on the critical path, other 9 than the final sign-off. That is, we are preceding him 10 on any activity that he is doing.

11 COMMISSIONER ROBERTS: You requested that 12 information?

MR. EISENHUT: Yes, I have. I have been
14 assured that it is only two or three items. It is a
15 very small amount.

16 The technical resolution, I believe, on all 17 issues has been arrived at, except for something on the 18 order of one or two issues. There are one or two issues 19 where we are still having some discussion with the 20 utility on the certification list.

21 This sort of completes the overall picture of 22 where we believe the utility is and where we believe the 23 staff is on the certification items. We are prepared to 24 talk in some more depth about any of the particular 25 items on the schedule, or aspects if you like.

1 There is, in fact, attached as background to 2 the package a listing of the certification items that 3 are remaining, and it breaks down specifically, item by 4 item, and the various status of where they stand. This 5 is a tracking system we keep, and as an item is 6 completed, we delete it from the list.

7 COMMISSIONER GILINSKY: What is the schedule 8 for steam generator repairs?

9 MR. EISENHUT: The perfect question.
10 Could I have the next slide, please?
11 (Slide.)

12 This is a slide of -- And you really, in front 13 of each bullet, you should think non-certification, 14 because I have deleted the certification items and put 15 them in the previous part of the package.

This is a listing of items and everything else That is outstanding. You will notice that the steam generator is the last item. It is the only item on the oritical path, and I will get to that in a little more detail in a moment if I could.

21 The full menu of things that are left, you can 22 break down in a number of ways. This is one way we 23 tried to break it down.

24 First, on NUREG-737, it is the 25 non-certification remainder of that document. There are

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1 a number of issues in 737 that have not yet been
2 resolved on this plant. I think resolution has been
3 reached on essentially all of those, consistent with the
4 position we are taking on the rest of the operating
5 reactors.

6 COMMISSIONER AHEARNE: Could 1 get you to 7 address one of them, and that is the one that you 8 highlight --

9 MR. EISENHUT: II.B.2.2 plant shielding.
 10 COMMISSIONER AHEARNE: Yes.

11 MR. EISENHUT: Yes.

12 COMMISSIONER AHEARNE: You end up saying, "The 13 Staff has not completed its review of Licensee's 14 justification for operation."

15 MR. EISENHUT: In fact, I think there was a 16 schedule added for that SECY document that indicated 17 that we hope to reach resolution on it by about October 18 8.

19 The item on plant shielding, we have not yet 20 resolved. It is an item that Region I is actually 21 reviewing for us, and we have yet to reach resolution on 22 that issue. It now looks like the schedule is probably 23 a couple of weeks away.

24 CHAIRMAN PALLADINO: Is there anything that 25 you may want to add?

1 MR. JARUSDICKI: There is not much to add, 2 other than the fact that we have started committing some 3 people to looking at that. They have been to the site 4 and there is some more need to follow up on some 5 procedures.

6 COMMISSIONER AHEARNE: Is there something more 7 than the fact that rather than putting in shielding, 8 they decided to go to having instrumentation that 9 enables them to operate the valves separately from the 10 region where the valves are, and that instrumentation is 11 not available in time?

12 MR. JARUSDICKI: Let me try to simplify it. 13 There appears to be a problem when you go to the 14 recirculation mode, and there are four different ways 15 you can do it.

If you go through all those four different 17 ways, there are different areas that we have to have 18 access to that we may not have access to because of the 19 source term. If you look and say, I need at least one 20 way of doing it, and not allow the other three ways, the 21 issue can be resolved today because they have shielding 22 for that mode of operation.

We, therefore, are saying, all right, how do we distinguish? Do we want all four modes ready and available for restart, or will we be satisfied with one

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1 mode of operation and will that be acceptable. So we 2 are working. We know that we have one path of 3 resolution and we will work out the details with them of 4 whether that is acceptable or not to NRR. So I see 5 closure.

6 Now, how long do we defer for allowing the 7 other three modes --

8 COMMISSIONER AHEARNE: Is the acceptability, 9 then, a question of what is the probability that you 10 would need the other three modes?

MR. JARUSDICKI: I would have to say, yes, you
would have to look at that. As I said, that is
something that we need to discuss with NRR.

MR. EISENHUT: The ball is in our court as of 15 about two days ago, and we just have not gotten to the 16 point of resolving it yet.

17 MR. JACOBS: It relates to what we think are 18 procedural deficiencies in the procedures to go into 19 recirc. All we want to do is really verify that these 20 are in fact procedural deficiencies that can be 21 corrected before restart.

22 That is really where we are, and it is recent 23 issue that came up, that was not known at the time the 24 SECY paper was written.

25 MR. EISENHUT: The rest of the 737 items, for

1 example, things like reactor water level, we will be 2 handling, as I indicated, very similar to the rest of 3 the operating reactors, and we will be coming to the 4 Commission generically on those requirements. We will 5 handle them in a like manner.

6 The next three bullets here on this chart --7 CHAIRMAN PALLADINO: On these items, you note 8 in 384 that you are going to ask for approval to defer 9 these four items?

10 MR. JACOBS: Yes, sir, we recommended that for 11 four of the items should be approved for a delay until 12 March 31, 1983, or restart, whichever is earlier.

13 MR. EISENHUT: Remember, the Commission in 14 this case requested that the staff not take action on 15 TMI-1 as we would on other operating reactors. We are 16 preparing the order on other operating reactors, where 17 we are working what we consider reasonable schedules for 18 those particular plants. We have been contacting 19 vendors of equipment to develop what reasonable 20 schedules are.

In this case, following a similar fashion, we have requested that the Commission approve deferral of those items until March 31 or restart, whichever is later. It seems like a reasonable date, and it would seem like a very short period of time with the overall

1 schedule that is presently being proposed on this
2 plant.

3 CHAIRMAN PALLADINO: If they start up before 4 March 31, would that require a shutdown to get some of 5 these done to meet the March 31 date?

6 MR. JACOBS: It is possible depending on how 7 far he got on the modification before that time, yes, 8 sir.

9 MR. EISENHUT: However, when you see the 10 overall schedule, it likely is not an impact.

The next three items on the slide, as I 12 indicated, really can be broken in a various number of 13 ways. It is really the overall listing of items that 14 are presently pending. I will call them the sort of the 15 classical items that are pending before the Region, and 16 Rich Jurasdicki is going to summarize those items.

MR. JARUSDICKI: These items are what we traditionally see on any plant, just like we saw on Susquehannah. We have appraisals. We have health physics appraisals that were done, the emergency planning appraisals. They are follow up items that need to be closed out as a result of an inspection, I&E bulletins.

Licensee make commitments to schedules, and 25 most of these IEE bulletins were schedules for long

1 outage, like the masonry wall problem. They have been 2 done, so we are closing them out. If an inspector has 3 to go back and check a certain item, he will put that on 4 this list. These types of items we have to have closed 5 prior to restart.

6 The outstanding inspection items relate to 7 appraisals and routine inspections. Outstanding LERs 8 require follow-up reports by licensees and the 9 inspectors, and the Region follows up on those. The IEE 10 follow-up, again, is commitments by the licensee that we 11 are following up, and again closing them out.

12 Miscellaneous technical specifications, as 13 Darrell also mentioned earlier, general result in 14 changes in procedures that we then follow up to make 15 sure that they are properly implemented, and that the 16 people are trained to follow the new procedures.

17 These are not something that is radically 18 different from any plant. I do see an abnormal number 19 of these items on TMI. It is pretty much what we had 20 experienced in Susquehannah.

21 MR. EISENHUT: The last item item on the first 22 part there, the number of miscellaneous technical 23 specification, there are a number of items that we need 24 to follow up. The sort of standard clean-up items in 25 the tech specs, really nothing significant in that

1 group.

The last item on the slide is the only item that is in a direct way on the critical path of the licensee's estimate of plant readiness.

5 If I could have the last slide. 6 (Slide.)

7 COMMISSIONER AHEARNE: You have reviewed and 8 approved the approach that has been used?

9 MR. EISENHUT: We have, in fact, reviewed and 10 we have not yet issued the approval for the utility to 11 go forth with the expansion process. That is, in fact, 12 due to be issued very shortly. The utility's estimate, 13 as of today, his estimate for when he would begin the 14 repair operation, is about October 15th. He would not 15 be ready by then. Our evaluation will certainly be 16 issued by then.

17 Legitimately speaking, it is not an approval 18 of them to do the repair operation. The approval 19 actually comes prior to restart. We approve that they 20 have actually undergone a repair operation, and that 21 that operation will in fact accomplish its purpose. We 22 have done a limited review to ensure that this operation 23 has a reasonable likelihood of doing that.

24 COMMISSIONER AHEARNE: Clearly, if you had 25 found problems with the approach they are taking, you 1 would have --

2 MR. EISENHUT: Absolutely. 3 COMMISSIONER AHEARNE: Do I gather your 4 conclusion is that you have not identified any 5 problems. MR. EISENHUT: We have not identified any 6 7 problem. In fact, the explosive expansion process is 8 one that has been done on thousands of tubes. 9 CHAIRMAN PALLADINO: It is what? MR. EISENHUT: It has been done on thousands 10 11 of tubes literally before, and we have high confidence 12 that it can be done. 13 CHAIRMAN PALLADINO: Successfully? 14 MR. EISENHUT: Successfully. COMMISSIONER AHEARNE: These are thousands of 15 16 tubes in how many plants? MR. EISENHUT: It is hard to say. A number of 17 18 those are not commercial power plants. So it is over a 19 number of facilities. There have also been --20 CHAIRMAN PALLADINO: Nuclear facilities? MR. EISENHUT: Some are nuclear facilities, 21 22 some are not. MR. JACOBS: I might add that Combustion 23 24 Engineering uses this process in all their initiation 25 fabrication, an explosive expansion process, to close

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1 the gaps between the tubes and the tube-sheets. MR. EISENHUT: It is a variation of it. 2 COMMISSIONER ROBERTS: It works in 3 4 manufacturing. 5 MR. JACOBS: Not in repair. 6 MR. EISENHUT: It is a variation of that 7 process, but it is very similar. 8 There also has been some extensive tests that 9 have been run to demonstrate that this process in fact 10 can work. 11 CHAIRMAN PALLADINO: In steam generators? 12 MR. EISENHUT: In steam generators, yes. CHAIRMAN PALLADINO: With effect now? In 13 14 position? MR. EISENHUT: Yes. 15 CHAIRMAN PALLADINO: You said that you had 16 17 made a preliminary, it sounded like a tentative 18 analysis. MR. EISENHUT: No, it is not meant to be. It 19 20 is meant to be the subtlety that we go through, sort of 21 the legalisms. It is not an approval, but it is a 22 review. We have ione a review in enough depth into the 23 process to see that the process can be done. As the 24 Commissioner indicated, we have done enough of a review 25 to say, stop, if in fact we thought there was any

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1 question about the process.

2 Technically, it is not the approval because 3 the approval actually entails that it can work and it 4 has done so properly. So the approval will come prior 5 to a restart decision, and that is the only 6 tentativeness.

7 CHAIRMAN PALLADINO: But you are satisfied. 8 You have gone in enough depth to know whether there are 9 problems to be faced.

MR. EISENHUT: Yes, we have, and that it evaluation will be issued very shortly.

12 The utility would start the repair operation 13 on October 15. He would be completing the repairs 14 something toward the end of the year. As you can see, 15 his proposed schedule would end up with a completion 16 date in February, which is the end of the process, since 17 this is in fact on the critical path.

18 COMMISSIONER AHEARNE: Do you think that that 19 is realistic?

20 MR. EISENHUT: Our estimate at the bottom is 21 that we are shooting more -- We think that it is will be 22 closer to a March/April timeframe.

23 COMMISSIONER AHEARNE: You say, "Staff's24 optimistic estimate of schedule."

25 MR. EISENHUT: Yes. We don't think it can

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1 really be --

2 ... COMMISSIONER AHEARNE: Let me back up and say, 3 what do you think is your realistic estimate?

4 MR. EISENHUT: I don't know whether there is 5 any -- We think this is the earliest it can be. If they 6 run into difficulties, it would be later, depending upon 7 those difficulties. It is really hard to speculate 8 beyond that.

9 We really think that this is the earliest 10 timeframe that this can all be accomplished, and that is 11 why the March 1983 date for completion of the other 12 items. I believe, from a practical standpoint, they 13 will essentially coincide.

14 COMMISSIONER AHEARNE: Optimism in schedules 15 around usually means that it run out by many months.

16 MR. EISENHUT: Having had the opportunity to 17 reflect on this slide, I would have deleted that word.

18 COMMISSIONER AHEARNE: But it still would have 19 been an optimistic estimate, though, would it not?

20 MR. EISENHUT: No. Characterized, I think the 21 Staff believes it is about as early as it can be 22 accomplished.

23 MR. JACOBS: I think for the mode that he 24 would go through to complete his repairs and to get 25 ready for operation, the schedule is realistic, but it

1 doesn't include contingencies if he runs into a major 2 problem. That is the reason that it is stated as being 3 optimistic.

4 MR. EISENHUT: As I said, I would have deleted 5 the word from the slide, had I had time to read the 6 slide.

7 That basically concludes our presentation. We 8 are prepared to aidress any of the items in some more 9 detail as concerns the schedule or aspects.

10 COMMISSIONER AHEARNE: Let me just ask about 11 another item on that steam generator. Do you have in 12 mind any specific requirements on its operation and 13 subsequent verification?

Have you reached a conclusion on the Forcedures that you will require, or is that something they propose and you accept it?

17 MR. EISENHUT: I don't think that we are at
18 that point yet. I think that is really where we are.
19 There would very likely be some additional --

20 COMMISSIONER AHEARNE: Where will the approval 21 be with that? Will that be in the Region?

22 MR. EISENHUT: It will be in headquarters. 23 The approval for restart after the repair will be based 24 upon several pieces of information, including 25 information from the Region, information from the 25

1 utility, based on inspections. We will put it all 2 together, and I would expect that we will come up with 3 some special requirements.

4 COMMISSIONER AHEARNE: I am just trying to 5 make sure that I can get a sense of it. Do you expect 6 the utility will propose: here is how we intend to 7 verify that this repair process was satisfactory.

8 MR. JACOBS: Yes.

9 COMMISSIONER AHEARNE: There will be a set of
 10 tests which NRR would then agree, yes, those are
 11 adequate tests?

12 BR. JACOBS: Before you get to hot functional 13 testing, there is a series of tests you have to do, 14 which involve the hydro, probably some probalistic gas 15 leak tests to verify the leak tightness.

16 What we are really concerned about is what 17 happens when it is repaired -- We are not really 18 concerned, but what we all want to know is what happens 19 to the repair in an operating condition, and hot 20 functional testing is as close as you can get to 21 simulated operating condition and doing it in a safe 22 manner. If problems are going to show up, we would 23 expect them to show up in that time.

24 With regard to specific tests, it would be in 25 terms of monitoring leak rates and those kinds of

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things. We wouldn't be proposing to put the plant
 through any type of major transients to do it, though.

3 COMMISSIONER AHEARNE: Have you thought 4 through whether you would require a longer period during 5 hot functional testing?

6 MR. JACOBS: Yes, we have. We have been 7 working very closely with the Licensee. He has been 8 incorporating some of our concerns, and as part of that, 9 I think, he is proposing right now about a 30-day hot 10 functional testing.

Then, even following a restart condition, we vould probably expect only short periods of operation, and then come back down and verify with anti-current testing, that kini of thing. He is generally in sqreement with that type of strategy.

16 MR. EISENHUT: We have not reached the bottom 17 line of what those things will look like.

18 CHAIRMAN PALLADINO: As GPU proposed and you 19 reviewed the program for assuring the quality assurance 20 in this repair process?

MR. JACOBS: Yes, sir. Part of their 22 evaluation was to demonstrate how they were proposing 23 quality controls and procedures for doing the 24 expansion.

25 CHAIRMAN PALLADINO: Do you approve their QA

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1 program?

MR. JARUSDICKI: The specific QA program, no,
3 sir.

4 MR. EISENHUT: The overall approval process 5 has not -- I mean, we have not reached the point yet. 6 It is in the very near future. In fact, we are still 7 putting together the final evaluation.

8 CHAIRMAN PALLADINO: Don't you approve the QA 9 program?

10 MR. EISENHUT: It is not really a QA program 11 per se for this, but it is: How do you know there is a 12 quality job being done on the generator.

13 CHAIRMAN PALLADINO: I don't mean only 14 confirming that it has been done, but how do they assure 15 that it is being done properly, making sure that he has 16 the proper QA?

17 MR. JACOBS: During the time that he is doing 18 the expansion, we are going to have people on site 19 monitoring the process. We also have one of our 20 contractors reviewing the procedures he is using to 21 conduct the expansions. Also, as we said, any problems 22 that shouli show up, are going to show up in a leak 23 testing mode or a hot functional testing mode.

I might add that he is not just running off 25 and doing this in his steam generator. He has been

1 doing extensive testing on a steam generator at Mount
2 Vernon, Indiana, which is a full steam generator. It is
3 a TMI-1 type steam generator. He has been conducting
4 similar procedures to consider ALARA concepts, and a
5 number of other concerns, following the exact procedures
6 he would use in his steam generator.

7 CHAIRMAN PALLADINO: Are there any inspection 8 methods that are used as a certain number of tubes are 9 done, to make sure that the bond is effective?

10 MR. JACOBS: In the early part of it, he 11 intends to do a test on tubes in the generator, and to 12 conduct the expansions, and then verify with 13 profilometry and anti-current testing, and all kind of 14 testing.

He is incorporating in the process quality he checks, where he would stop at various periods and look and look the whether he is doing the repairs the way he should he be.

19 COMMISSIONER GILINSKY: The Chairman's 20 previous question, it seems to me, is an interesting 21 one, not only for the case of TMI but all reactors. Did 22 we, anywhere along the way, specifically address the 23 question of the Licensee's QA program, and convince 24 ourselves or decide that we were satisfied? 25 MR. EISENHUT: For steam generator

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1 activities?

25

2 COMMISSIONER GILINSKY: For steam generator 3 activities, or more generally for the general 4 refurbishing of the plant?

5 MR. JACOBS: Yes, sir.

6 COMMISSIONER GILINSKY: Who did that?

7 MR. JACOBS: The quality assurance plan was 8 submitted to NRR for review. It was a subject in the 9 hearing. The implementation of the quality assurance 10 plan is being reviewed by Region I by inspection.

11 MR. EISENHUT: For all plants, there are in
12 fact detailed quality assurance plans.

13 COMMISSIONER GILINSKY: I know that we review 14 these plans, paper plans, but to what extent have we 15 made a determination that we have a functioning QA 16 organization that is adequate to the job. This applies 17 not only to TMI, but --

18 MR. JARUSDICKI: THI is not being treated 19 differently. They still have QC inspectors. They have 20 QC organization. They still have to do their 21 double-checking. There is the papertrail they have to 22 follow, but they also still have to have their 23 requirements for their own people to follow their own 24 procedures.

So I woul think that quality is both the QC

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people coming along and looking at the quality of work
 being done, and do you judge the quality of the work
 being done is by what kind of effort has gone into
 preparing the procedures to do the job properly.

5 COMMISSIONER GILINSKY: It doesn't sound to me 6 like anywhere along the way we have said: Yes, the 7 quality assurance program is functioning as it should. 8 But rather the opposite, that a number of problems 9 accumulate --

10 MR. JACOBS: There has been a quality 11 assurance inspection on TMI-1 to verify that the proper 12 implement is was kosher. There may be some 13 outstanding items, but I am not sure if Region I can 14 address those.

15 There has been a specific quality assurance16 inspection on TMI-1.

17 MR. JARUSDICKI: We have had inspectors from 18 Region 1 whose sole job is looking at quality assurance 19 programs. They have been to TMI-1 throughout the course 20 of the year. So that should answer your question. 21 However, I would like to go a step further and say that 22 that is not where quality stops with us.

We still go beyond the program and what those 24 inspectors look at. I have not seen an enforcement 25 history or a problem with the quality of the work or the

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1 quality control program.

So from a programmatic standpoint, we have people looking at it. From looking at what the inspectors are finding, I see no problems. So I have to say, yes, there has been a program. NRR has looked at it. It has been applied in the field, and we are ratisfied with it.

8 COMMISSIONER GILINSKY: Because they have not 9 turned up problems to a degree where it would cause you 10 concern.

11 MR. EISENHUT: That is implicitly what it is. 12 In fact, generally what surfaces, so to speak, at either 13. operating reactor or at OLs is where problems elevate 14 themselves and surface that here is a demonstration of a 15 history with some problems. Generally that is where we 16 really start refocusing on it, certainly in 17 headquarters.

18 That, basically, completed the items that we 19 were planning to summarize. This is the kind of 20 schedule we are looking at. We have committed that we 21 are putting on whatever resources it takes to continue 22 to process the approval of the remaining 64 items. We 23 don't really think, even though the number is getting 24 pretty intense --

25 COMMISSIONER AHEARNE: I assume that you mean

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1 by, to continue your process, reviews of the remaining 2 64 items before they get approval.

MR. EISENHUT: Requests for approvals, yes.
4 In fact, some have run into difficulty, and some are
5 continuing to.

6 We will continue to process those, though. The 7 density of them, so to speak, is getting greater per 8 month as we get closer to the cod of the line.

9 CHAIRMAN PALLADINO: Darrell, you earlier 10 referred to your indication that you wanted our approval 11 to defer four items. Then I wonder what part do we 12 Commissioners play, if any, in approval of the 129, if I 13 can remember the number.

14 COMMISSIONER AHEAPNE: Go ahead, Darrell. 15 MR. EISENHUT: What I wanted to say earlier 16 is, the reason the SECY document came down requesting --17 and it was written as proposing -- was because it was 18 our understanding that was the mode the Commission 19 wanted to be in. That is, you wanted us to put it in a 20 recommended mode on this plant, so you could take the 21 final action.

Concerning the certification items, we are concerning the certification items, we are required to certify to the Commission the completion of the completion

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1 little different than it normally would be. 2 CHAIRMAN PALLADINO: The reason I raise the 3 question, it seems to me you have asked for specific 4 approval for the deferral of these four items. 5 COMMISSIONER AHEARNE: Those are the 737 6 items. They are outside. 7 CHAIRMAN PALLADINO: Are there any other 8 guestions from the Commissioners? 9 (No response.) CHAIRMAN PALLADINO: I gather that this 10 11 completes the status report. We will agree on deferral 12 on the items affecting TMI-1 restart. Thank you all. 13 (Whereupon, at 3:40 p.m., the meeting 14 adjournet 15 16 17 18 19 20 21 22 23 24 25

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NUCLEAR REGULATORY COMMISSION

This is to certify that the attached proceedings before the

COMMISSION MEETING

in the matter of: Status of Staff Certification on Licensee Compliance with Restart Requirement on TMI-1 Date of Proceeding: October 6, 1982

Docket Number:

Flace of Proceeding: WASHINGTON, D. C.

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

Patricia A. Minson

Official Reporter (Typed)

were a. Minson

Official Reporter (Signature)

COMMISSION BRIEFING

OCTOBEP 6, 1982

TMI-1 STATUS

D. G. EISENHUT 49-27572

OUTLINE

- CERTIFICATION PLAN
- STATUS OF CERTIFICATION
- SUMMARY CERTIFICATION ITEMS
- SCHEDULE FOR COMPLETION
- OTHER ITEMS TO BE COMPLETED BEFORE RESTART
- OVERALL PLANT STATUS AND SCHEDULE
- ATTACIMENT

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- CERTIFICATION ITEMS REMAINING

CERTIFICATION PLAN

- CERTIFICATION LIMITED TO <u>SHORT TERM</u> REQUIREMENTS AS IDENTIFIED IN AUGUST 9, 1979 AND MARCH 8, 1980 ORDERS AND BOARD IMPOSED <u>SHORT TERM</u> REQUIREMENTS
- CERTIFICATION PREREQUISITES
 - LICENSEE MUST HAVE FULLY COMPLETED
 - REGION I, IE, OR NRR WILL INSPECT OR VERIFY COMPLETION WITH ALL OUTSTANDING ISSUES RESOLVED

STATUS OF CERTIFICATION

- OF 129 CERTIFICATION ITEMS, 65 TOTALLY COMPLETE AS OF 9/23/82
- OF 64 ITEMS NOT YET COMPLETE, 4 REQUIRE POWEP OPERATION, 6 REQUIRE HOT FUNCTIONAL TESTING (HFT) AND 2 OTHERS REQUIRE VERIFICATION AT TIME OF RESTART
- OF 52 REMAINING ITEMS
 - 19 ARE READY FOR REGION I INSPECTION
 - 22 REQUIRE GPU ACTION WITH SUBSEQUENT INSPECTION/ REVIEW BY REGION I/NRR OR IE
 - 6 REQUIRE NRR ACTION WITH POSSIBLE FOLLOWUP ACTION BY GPU AND REGION I
 - 5 REQUIRE IE VERIFICATION
- ALL CERTIFICATION ITEMS EXCEPT THOSE REQUIRING CHANGE IN
 PLANT CONDITIONS COULD BE COMPLETED BY JANUARY 1983

SUTTARY CERTIFICATION ITENS

I. AUGUST 9, 1979 ORDER SHORT TERM ITEMS

10

- 1. EFW RELIABILITY .
- 2. IE BULLETINS
- 3. EMERGENCY PREPAREDNESS
- 4. SEPARATION OF TMI-1/2
- 5. WASTE MANAGEMENT
- 6. MANAGERIAL CAPABILITY
- 7. FINANCIAL QUALIFICATIONS
- 8. CATEGORY "A" LESSONS LEARNED
- II. ASLB IMPOSED REQUIREMENTS (SHORT TERM)
 - A. MGMT PID
 - B. PLANT DESIGN PID
 - C. EMERGENCY PLANNING PID.
 - D. CHEATING PID

TOTALS

# OF ITEMS	UTILITY	Nor Laure	NRC RE	NOT COMPLETE
TTEMS	COMPLETE	NOT COMPLETE	COMPLETE	NOT COMPLETE
19	13	6	12	7
24	20	4	19	5
1	1	0	1	0
7	7	0 -	- 1	6
2	1	1	1	1.
12	10	2	9	3
N/A				
21	15	6	10	11
1				14. J. A.
10	6	4	4	6
21	14	7	7	. 14
8	6	2	1	7
4	0	4	0	4
-129	-93	35	65	54

SCHEDULE FOR COMPLETION OF CERTIFICATION

OF 64 REMAINING CERTIFICATION ITEMS:

	UTILITY	NRC
OCTOBER 1982 .	7	12
NOVEMBER 1982	14	15
DECEMBER 1982	2	19
JANUARY 1983	2	6
HFT	6	6
RESTART/POWER ESCALATION TESTING	5	_6
	36	64

OTHER ITEMS TO BE COMPLETED PRIOR TO RESTART

- NUREG-0737 (SEE SECY-82-384)
- GUTSTANDING IE INSPECTION ITEMS
- RESOLUTION OF OUTSTANDING LERS
- IE BULLETIN FOLLOWUP

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MISCELLANEOUS TECHNICAL SPECIFICATIONS

ONLY ITEM ON CRITICAL PATH

STEAM GENERATOR REPAIRS

OVERALL PLANT STATUS/SCHEDULE

•	OTSG REPAIRS CONTROLLING PLANT RESTART READINESS	
•	STEAM GENERATOR RECOVERY SCHEDULE	
	- START OF EXPLOSIVE EXPANSION REPAIRS	10/82
	- COMPLETION OF REPAIRS/OTSG CLEANUP/LEAK TESTING	12/82
	- PLANT AVAILABLE FOR POST REPAIR/PRECRITICAL TESTING	12/82
	- REMAINING ACTIONS	
	• RCS CLEANUP I.E. DESULFURIZATION (MAJOR POTENTIAL SCHEDULE IMPACT)	
	• HOT OPERATIONS AND SUBSEQUENT ECT TO VERIFY REPAIR ACCEPTABILITY	1/83 (EST.)
	• POTENTIAL FURTHER REPAIR	
	· OPTIMISTIC COMPLETION DATE	2/83
	STAFF OPTIMISTIC ESTIMATE OF SCHEDULE	
	• HOT OPERATIONS	1/83
	· PLANT READY FOR CRITICALITY	MARCH/APRIL 1983

CERTIFICATION ITEMS REMAINING

NI-1 RESTART CERTIFICATION STATUS - ITENS REMAINING . AUGUST 9, 1979 ORDER REQUIREMENTS

TEM . SHORT TERM	DESCRIPTION	ITEM TYPE	Licensee Status	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/ REMARKS
RDER ITEM 1	EFW RELIABILITY				
A-1	AUTO INITIATION OF EFW	f*lod	COMPLETE	COMPLETE	EXCEPT POWER ESCALATION TESTING
а-3	Auto EFW Load on Diesels	ilop	Complete except testing	PARTIALLY COMPLETE	TESTING DURING HET
A-4	EFW TECH SPECS	Tech Specs	PROCEDURE	PARTIALLY	12/82
8- А	EFW AUTO START ANNUNCIATION	HOD	COMPLETE	COMPLETE	EXCEPT POWER ESCALATION TESTING
A ADDITIONAL	RELIABILITY ANALYSIS				
TEMS	CWST LEVEL ALARM	Mod	INL ITEMS - Est, 11/82	PARTIALLY COMPLETE	12/82
6	EFW INITIATION INDEPENDENT OF AC	Mod	BEWORK IN PROGRESS EST, 10/82	PARTIALLY COMPLETE	11/82 except HFT
8	Cross-Tie Break	ANALYSIS	Complete	NON-DESTRUCTIVE EXAM RECORDS REVIEW SCHEDULED 12/82	12/82
RDER ITEM 2	IE BULLETINS				
9-05A-2	PLANT TRANSIENT REVIEW	INSPECTION	COMPLETE	SCHEDULED 12/82	12/82
9-05A-5	VALVE POSITION REVIEW	Procedures	-	-	VALVE LINEUP VERIFICATION AT TIME OF RESTART
9-05A-6	CONTAINMENT ISOLATION	i'lod	SEE ORDER ITEM 8 .	SEE ORDER ITEM 8 2.1.4	
9-05B-5	ANTICIPATORY REACTOR TRIP (SAFETY GRADE)	Mod	COMPLETE	COMPLETE	EXCEPT POWER ESCALATION

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EM	DESCRIPTION	ITEM TYPE	Licensee Status	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/
DER ITEM 4	SEPARATION OF THE-1 & 2				
	A)LIQUID RADWASTE -INTERCONNECTION ISOLATION	ilod	COMPLETE	, Scheduled 10/82	10/82
	b)Gaseous Radwaste -Leak Test of Waste System -Fuel Handling Building	Test	Complete Complete	Scheduled 10/82 Scheduled 10/82	10/32
	ISOLATION -FUEL HANDLING BUILDING VENTILATION SYS. MOD.	ilop	COMPLETE	Scheduled 10/82	10/82
	c) Sol 10 Radwaste -TMI-1/2 Trash Segregation	PROCEDURES	COMPLETE	Scheduled 10/82	10/82
	d)Sampling System -Independent 1111-2 Sampling System	flop	COMPLETE	Scheduled 10/82	10/82
DER ITEM 5	Waste Management				
	B)SOLID RADWASTE -LOW ACTIVITY STOR. EXPANSION	(10D	COMPLETE	Scheduled 10/82	10/82
de <u>r Item 6</u>	MANAGERIAL CAPABILITY		<i>,</i>		
	c)HEALTH PHYSICS -QUALIFICATION RECORDS	Training	COMPLETE	PARTIALLY COMPLETE	11/82
	D)NUREG-0694 ITEMS -II, B, 4 TRAINING RECORDS FOR MITIGATING CORE DAMAGE	TRAINING	PARTIALLY COMPLETE EST, 12/82	PARTIALLY COMPLETE	1/83
	E) INSPECTORS VIEWS -RESOLVE INSP. FINDINGS IN NUREG-0680	INSPECTION		PARTIALLY COMPLETE	

				- AND	
EM	DESCRIPTION	ITEM TYPE	LICENSEE STATUS	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/ REMARKS
spea I TEM 8	LESSONS LEARNED-SHORT TERM				
1.1	EMERGENCY POWER SUPPLY -PRESSURIZER HEATERS	Roo	COMPLETE	PARTIALLY COMPLETE 11/32	11/82
.1.3A	VALVE POSITION INDICATION	l'top	COMPLETE	PARTIALLY COMPLETE 111/82	11/82
.1.39	INADEQUATE CORE COOLING -EXISTING INSTRUMENTATION & SATURATION METER	Mon	COMPLETE EXCEPT TESTING	PARTIALLY COMPLETE 10/82 EXCEPT HFT	10/82 EXCEPT HFT
.1.4	CONTAINMENT ISOLATION	ilon	TESTING EST, 11/32	PARTIALLY COMPLETE	12/82
.1.7 _B	ETM FLOW INDICATION (CONTROL GRADE)	Plan	Esr. 10%2	Scheduled 11/82	LICENSEE INSTALLING SAFETY GRADEVINST. INITIE.1.2 - 11/82
.1.8 _B	RADIATION MONITORS (CONTROL GRADE)	thoo			LICENSEE INSTALLING FINAL MONITORS INH II.F.1 - 1/83
	A) II RANGE RADIATION MONITORS B) NOBLE GAS MONITORS C) RADIOTODINE/PARTICULATE MONITORS	ß	ILL ITEMS-EST. 1/85 ILL ITEMS-EST. 1/83 ILL ITEMS-EST. 11/82	Scheduled 1/83 Scheduled 1/83 Scheduled 12/82	
.1.8c	IODINE INSTRUMENTATION	Non	COMPLETE	SCHEDULED 11/82	11/82 .
.2.1c	SHIFT TURNOVER	PROCEDURE	COMPLETE	Schepuled 11/82	11/32
.2.2B	ONSITE LECH SUPPORT CENTER	Pop	COMPLETE	PARTIALLY COMPLETE	10/82

	MPOSED REQUIREMENTS		1	
ITEM	DESCRIPTION	LICENSEE STATUS	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/ REMARKS
A, MANAGEN	ETT FINDINGS - AUGUST 27, 1981 PID			
II.D.	ACCURACY OF MAINTENANCE RECORDS	PARTIALLY COMPLETE EST, 11/32	PARTIALLY COMPLETE	12/82
II.M	5. BIDS AND SPECS FOR TMI-1 REPLICATE SIMULATOR	10/82 Status Report Prepare bids/Issue specs.	PENDING	4/82 PREPARE BIDS/ISSUE SPECS, 10/82-FIRST OF LICENSEE ANNUAL REPORTS ON PROGRESS-EST, 12/82
	6. CONTRACT FOR BASIC PRINCIPLES TRAINER TO BE INSTALLED IN 1982	Installed-1983 Contract complete	PENDING	12/32
	7. EMERGENCY DIRECTOR/SUPPORT DIRECTOR TRAINING	PARTIALLY COMPLETE EST, 12/82	PENDING	1/83
	9. (A)-(G). LICENSEE CONDITIONS FOR SHIFT MANNING	COMPLETE	Scheduled at restart	AT TIME OF RESTART, LICENSE CONDITION
	10. (A)-(C). MANAGEMENT SYSTEM TO PERFORM SPECIFIC FUNCTIONS RELATED TO OPERATING EXPERIENCE INFORMATION	COMPLETE	PARTIALLY COMPLETE	11/82
B, PLANT D	ESIGN, MODIFICATION AND PROCEDURES FINDINGS - I	DECEMBER 14, 1981 PID		
11.0	STAFF REVIEW REVISED ATOG PROGRAM (PARA, 721)	GENERIC PROGRAM SUBMITTED	UNDER NRR REVIEW	CERTIFY REASONABLE PROGRESS-EST, 10/82
II.E	PRESSURIZER HEATERS DEMONSTRATE RCS PRESSURE CONTROL W/HPI (PARA, 755)	11/82 SUBMITTAL TO REG. 1	PENDING	12/82
II.K	COMPUTER -OPERATOR RELIANCE ON COMPUTER (PARA, 865)	COMPLETE	Pending	10/82
	-Incore Thermocouple Backup Display (not safety grade) (para, 867)	COMPLETE EXCEPT TESTING	PENDING	LICENSE CONDITION BEFORE 5% POWER-HFT

TEM	DESCRIPTION	Licensee Status	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/
I.N	SAFETY SYSTEM STATUS PANEL -System Status Admin, Controls (para, 904)	COMPLETE	PARTIALLY COMPLETE	11/82
1.N	Control Room Design -Correct NUREG-0752 Deficiencies (para, 914-915)	IWL ITEMS-10/82	Partially complete	SHORT-TERM 10/82, LT DEFICIENCIES 1ST REFUEL AFTER RESTART (LICENSE CONDITION)
1.0	ADDITIONAL LOCA ANALYSIS -INSTALL HPI CAVITATING VENTURIS (PARA, 943)	Complete except test	Complete except test	HÉT
I.P	Systems Classification -Upgrade Pressurizer Level Inst. Power Supplies (para, 1001)	COMPLETE	Scheduled 12/82	12/82
0.1	EFW RELIABILITY			
	A)EFW CAVITATING VENTURIS	Complete except testing	COMPLETE EXCEPT TESTING	HFT
	-PROPOSE MEANS TO PREVENT EFW ISOLATION DUE TO RUPTURE DETECTION SYSTEM FAILURE ((PARA, 1064)	COMPLETE	NRR REVIEW PENDING	CERTIFY REASONABLE PROGRESS- EST. 10/82
1.5	BOARD QUESTIONS NUREG-0694 ITEMS (PARA, 1132)			
	-I.G.1-LOW POWER TESTING	PARTIALLY COMPLETE	NRR REVIEW PENDING	DURING LOW POWER TESTING
I.T	EQUIPMENT QUALIFICATION -SIX BOARD CONDITIONS CONCERNING HATERIAL AGING & OTHER EQ ITEMS (PARA, 1163 & 1168)	SUBMITTED RESPONSE	UNDER NRR REVIEW	11/82; LICENSE CONDITION FOR 3 ITEMS PRIOR TO EXCEEDING 5% POWER
	-STAFF REVIEW FLOOD LEVEL CALCULATIONS (PARA, (1174)	COMPLETE	NRR REVIEW PENDING	11/82

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TEM	DESCRIPTION	Licensee Status	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/ REMARKS
	OF THI-1 AND THI-2 FINDINGS- DECEMBER 14, 19			
III.B	-VENTILATION SEPARATION PROGRAM (PARA, 1267)	TEST COMPLETE SUBMITTAL 10/32	NRR REVIEW PENDING	12/82
). EMERGENCY	PLANNING FINDINGS			
IV.L Board Condi-	CONCLUSIONS Paragraph 2010			
FIONS	A. EMERGENCY SUPPORT DIRECTOR STAFFING IN EOF PRIOR TO FULL EMERGENCY SUPPORT ORGANIZATION ARRIVAL (PARA, 2010(A))	COMPLETE	PENDING	11/82
2	B. STAFF REVIEW COUNTY EP BROCHURES AND PETA EP PAMPHLET AND ADVISE COMMISSION OF IMPACT OF CHANGES	COMPLETE	FEMA REVIEW COMPLETE NRC ADVISE COMMISSIO	111/82 N
	C.PEM PAMPHLET AND COUNTY BROCHURE DISTRIBUTION TO POPULACE IN EPZ	COMPLETE	Pending	11/82
	D. PUBLIC INFORMATION BROCHURE DISTRIBUTION TO TRANSIENT LOCATIONS	Езт. 11/82	PENDING	12/82
	E.LICENSEE TO CONDUCT EP BRIEFINGS TO MAJOR EMPLOYERS AND OPERATORS OF TRANSIENT LOCATIONS, BRIEFINGS TO BEGIN PRIOR TO RESTART	Scheduled 11/82	PENDING	12/82
	F.STAFF CERTIFY SATISFACTORY COMPLETION OF SIREN SYSTEM TESTING	COMPLETE	FEW REVIEW COMPLETE STAFF REVIEW 11/82	11/82
	H. CERTIFY TO COMMISSION THAT EPZ SCHOOL PLANS ARE COMPLETE	N/A	FEMA REVIEW COMPLETE ADVISE COMMISSION 12/82	12/82
REOPENDED	PROCEEDING ON CHEATING-JULY 27, 1982			
1.	PARAGRAPH 2421			
	2) LICENSEE ESTABLISH CRITERIA FOR QUALIFICATIONS OF TRAINING INSTRUCTORS	Езт. 11/82	PENDING	1/83

DESCRIPTION	LICENSEE STATUS	INSPECTION/REVIEW STATUS	ESTIMATED COMPLETION/
3) LICENSEE IMPLEMENT INTERNAL AUDITING PROCEDURE ON TRAINING AND TESTING PROGRAM TO BE COMPLETED BY MANAGER OF TRAINING AND SUPERVISOR OF TRAINING	Езт. 11/82	PENDING	12/82
4) LICENSEE IMPLEMENT A PROCEDURE FOR SAMPLING AND REVIEW OF EXAM ANSWERS TO DETECT CHEATING, REVIEW PROCESS TO BE APPROVED BY INRC	Езт, 11/82	Pending	1/83
5)UNTIL FURTHER ORDER, G. MILLER'S PARTICIPATION IN STARTUP/LESTING/ OPERATION OF TMI-1 TO BE SUPERVISED BY GPUNC OFFICIAL	10/82	PENDING	11/82

TEM