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UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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IN THE MATTER OF:  
MEETING OF NRC STAFF  
WITH CASE

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1 UNITED STATES OF AMERICA  
2 NUCLEAR REGULATORY COMMISSION  
3 MEETING OF NRC STAFF WITH CASE

4 Nuclear Regulatory Commission  
5 7920 Norfolk Avenue  
6 Room P-118  
Bethesda, Maryland

7 Tuesday, November 19, 1985

8 The meeting convened at 9:02 a.m., Clarence Chandler,  
9 Office of the Executive Legal Director, presiding.

10 ATTENDEES:

11 ANNETTE VIETTI-COOK, NRR/DL/CPP  
12 T. A. IPPOLITO, AEOD  
13 H. H. LIVERMORE, NRC - Reg. II  
14 C. J. HALE, NRC - Reg. IV  
15 H. S. PHILLIPS, NRC - Reg. IV  
16 C. E. McCRACKEN, NRC/NRR  
17 CHET POSLUSNY, NRC/NRR/DL/CPP  
18 ANTHONY Z. ROISMAN, CASE/Trial Lawyers for Public  
Justice  
19 BILLIE GARDE, CASE/Trial Lawyers for Public Justice  
LAWRENCE J. CHANDLER, NRC/OELD  
20 LARRY SHAO, NRC  
JOSE A. CALVO, NRC  
21 VINCENT S. NOONAN, NRC  
GEARY S. MIZUNO, NRC-ELD  
22 CHARLES M. TRAMMELL, NRC  
RICHARD H. WESSMAN, NRC  
SHOU-NIEN HOU, NRC  
23 R. W. HUBBARD, NRC  
V. P. FERRARINI, TRT  
R. MASTERSON, TRT  
24 W. P. CHEN, TRT  
SPOTTSWOOD B. BURWELL, NRC/NRR/CPP  
25 C. D. RICHARDS, TRT  
J. H. MALONSON, TRT  
M. W. ELI, TRT  
R. W. BONNENBERG, TRT  
V. W. WATSON, TRT  
VICTOR L. WENCZEL, TRT  
T. E. CURRY, TRT  
WILLIAM C. WELLS, TRT  
DAVID L. MEYER, NRC/ADM/DRR/FOIA  
JOE CAWLEY, NRC/ADM/DRR/FOIA  
AL SERKIZ, NRC/NRR/DST  
PAUL KESHISHIAN, TRT-Consultant



## 1 ATTENDEES (Continued):

2  
3 ROGER ROHRBACHER, NRC/IE  
4 IAN BARNES, NRC - Reg. IV  
5 TONY BUHL, SRT/TUGCO/IT Corp.  
6 R. A. WOOLDRIDGE, Worsham, Forsythe, Sampels &  
7 Wooldridge, for TUGCO  
8 WILLIAM S. EGGELING, Ropes & Gray  
9 ROY P. LESSY, JR., Morgan, Lewis & Bockius  
10 JOHN H. BUCK  
11 R. K. GAD, III, Ropes & Gray  
12 WARREN E. NYER, TUGCO/NYER, Inc.  
13 JACK D. REDDING, TUGCO  
14 M. SIVA KUMAR, Gibbs & Hill  
15 DAVID C. GARLINGTON, Southern Engineering  
16 HOWARD A. LEVIN, CPRT  
17 BEN FINKELSTEIN, Spiegel & McDiarmid (Brozas G&T)  
18 JOHN GUIBERT, CPRT/SRT  
19 JOHN KNOX, NRC/NRR  
20 DONALD F. LANDERS, Teledyne Engineering Service  
21  
22  
23  
24  
25

P R O C E E D I N G S

1  
2 MR. CHANDLER: Good morning, I'm Clarence  
3 Chandler with the Office of Executive Legal Director. This  
4 morning there will be a public meeting which has been  
5 agreed to between the Staff of the Nuclear Regulatory  
6 Commission and Intervenor, Citizens Association for Sound  
7 Energy.

8 Citizens Association for Sound Energy this  
9 morning is represented by Anthony Roisman and Ms. Billie  
10 Garde. I will turn it over to Mr. Roisman in a moment for  
11 any opening comments or thoughts he may have.

12 Notice of this meeting was provided -- and in  
13 addition I see representatives of the Applicant in the rear  
14 of the room. Mr. Noonan, in a moment, will make some  
15 opening comments, and further discuss the conduct of this  
16 meeting.

17 Essentially, this meeting is being conducted as  
18 outlined very generally in the joint stipulation of Staff  
19 and Citizens Association for Sound Energy Request for  
20 Subpoenas, a document dated October 23, 1985, filed with  
21 the Atomic Safety and Licensing Board in this proceeding on  
22 that date.

23 The general subject of this meeting will be a  
24 discussion and questioning by Citizens Association for  
25 Sound Energy on the matters discussed in the Staff's

1 supplemental safety evaluation reports 7 through 11, which  
2 reflect the reviews and evaluations performed by the Staff's  
3 technical review team, or TRT. This meeting is a joint  
4 Docket 1 and Docket 2 meeting, and as agreed, CASE's  
5 Washington representatives will be asking questions in both  
6 dockets.

7 With that, I will turn it over to Mr. Noonan for  
8 any preliminary comments that he may wish to make at this  
9 time and for introduction of the other Staff individuals.

10 MR. NOONAN: Good morning, I'm Vince Noonan.  
11 I'm the director of the Comanche Peak project for the  
12 Nuclear Regulatory Commission Staff. Just a couple of  
13 things I would address to Mr. Roisman and Ms. Garde.

14 The subject of intimidation and harassment, I  
15 know that's part of this case. This particular group of  
16 people were not involved in that directly other than they  
17 looked at allegations. As you know there was a special  
18 report put out by my panel, and they addressed the subject  
19 of intimidation and harassment. I have asked the Staff not  
20 to use names of allegeders even though they may have been  
21 made public, since this is a public meeting I asked them  
22 not to use names. If that's no problem I would like to  
23 proceed that way.

24 At the end of this session today and also  
25 tomorrow, I would ask the Applicant if they wish to make a

1 comment for the record. One last item of business, I would  
2 like to provide some frequent breaks to the reporter so we  
3 could stop for a short period of time to allow her to take  
4 a quick break.

5 Other than that, Mr. Roisman, I don't have any  
6 other opening remarks. Go ahead and proceed with your  
7 questions.

8 MR. ROISMAN: Okay, Mr. Noonan. Ms. Ellis asked  
9 us to have included in the record a one-page statement  
10 which attaches the stipulation and simply explains her  
11 understanding of the agreement. I've given the reporter  
12 three copies, and I will give Mr. Chandler one and  
13 Mr. Noonan one, and one for the Applicant's lawyer.

14 Let me start at the outset by saying what we  
15 will do in the next two days is not cross-examination.  
16 When we do cross-examination, it will take place in front  
17 of the hearing board. Our purpose is a very benign purpose.  
18 We simply want to find out in each of the areas that we are  
19 interested in what was meant by statements that appear to  
20 us to be ambiguous, or it is not clear; and where the  
21 statement is clear, and it is not clear why the statement  
22 was made, to understand the basis.

23 Our purpose is not to argue with you or to  
24 attempt to pin you to the wall, so to speak. There is a  
25 time for that; this is not it. It is not our purpose here.

1 This is in the nature of what lawyers talk about. This is  
2 in the nature of a discovery deposition. I just want to  
3 find out what you know, and in the words of Watergate, when  
4 did you know it, and that is our only goal.

5 I realize there's a certain amount of tension  
6 that precedes this meeting, and that's probably inevitable  
7 on both sides, but I want you to know that at least Billie  
8 and I have no particular axe to grind. We come with no  
9 predisposition that any statements you made are clearly  
10 wrong or, unfortunately, that they are clearly right. What  
11 we come for is information.

12 A lot of the information that underlies the work  
13 that you have done has only very recently been made  
14 available to us and even larger pieces have not been made  
15 available at all. That's not the fault of any of you who  
16 we'll be talking to, but there will be times when you will  
17 think, why are they asking that, I had a 16-page memorandum  
18 that explained it all. Just tell us that, that it is laid  
19 out in something.

20 We have this FOIA request which is being  
21 responded to at a pace which is glacial, to say the least.  
22 Eventually, all the information will be there, and we will  
23 try to not ask you questions that we should know the answer  
24 to because we have the material in our hands.

25 The outline of how we intend to proceed is, to

1 start with, Mr. Ippolito, who is sort of the grandfather of  
2 this project, let him explain to us how it got started,  
3 what it is about. We will ask Mr. Ippolito to discuss in  
4 some detail the July 13, 1984 report, which was, for lack  
5 of a better term, a mini TRT report. And we'll ask  
6 Mr. Noonan very briefly to simply indicate to what extent  
7 the system that Mr. Ippolito put into place was changed,  
8 altered, relied upon or in any other way used for the  
9 remainder of what ultimately became the TRT's letters and  
10 then after that the SSERs.

11 We'll then take the SSERs, essentially in  
12 chronological order except the one that deals with  
13 miscellaneous -- we'll probably do that just before we do  
14 QA/QC, so we'll start with number 7, then do number 9, 10,  
15 8 and 11, in that order.

16 Now, if we are talking about matters that are in  
17 one of your areas of expertise to someone who really is not  
18 as expert and you want to speak up, it is okay with me. I  
19 don't know what Mr. Chandler or Mr. Noonan may have told  
20 you but it is quite all right with me if someone says,  
21 that's not exactly it, or wait, let me explain, because I  
22 was there. That's fine. I'm just trying to get  
23 information, and I'll direct my attention to whoever  
24 Mr. Chandler and Mr. Noonan say I ought to start talking to,  
25 but if somebody else wants to speak up from the Staff,



1       that's all right with us.

2               Do you have any questions?

3               MR. CHANDLER: Let me make one comment. That is  
4       in fact the way the Staff intends to respond. To the  
5       extent -- and as you can see, there are quite a number of  
6       individuals here, you will be hearing from -- likely, from  
7       more than simply the individuals at the table, to the  
8       extent another individual may have information pertinent to  
9       your question.

10              You alluded in your opening comment to the fact  
11       that this is in the nature of a discovery deposition. Just  
12       again so the record is clear, this is in the nature of  
13       informal discovery. These individuals, unlike a deposition,  
14       will not be placed under oath, and let's proceed on that  
15       basis.

16              MR. NOONAN: One clarification, the Staff has  
17       been instructed to speak up if somebody in this room has  
18       information that's available, they will speak up and tell  
19       you that. If something is said wrong, we'll correct it  
20       right at the time that we know about it. I want to ask one  
21       question: In reading the transcripts next week when we go  
22       through them, if I find some errors, I will give them to  
23       Mr. Chandler and he can communicate to you what those  
24       errors are.

25              MR. ROISMAN: We hoped you would do that. We

1 appreciate it.

2 MR. CHANDLER: Will this document provided by  
3 Ms. Ellis be filed in the proceeding or is it simply your  
4 intention to have it attached?

5 MR. ROISMAN: Our intent was to have it bound in  
6 with the transcript.

7 MR. CHANDLER: I have no problem with that.

8 MR. ROISMAN: Mr. Ippolito, I would like to  
9 start with you. Do you have a copy of the June 11, 1984  
10 letter that you sent to the hearing board? Well, I'll go  
11 through it slowly enough so we'll be able to talk about the  
12 same thing.

13 In that letter, you state on page 2 of the  
14 attachment -- and the letter that I'm referring to until I  
15 tell you different is the June 11, 1984 letter to the  
16 hearing board that you signed, in which you transmitted to  
17 them a copy of the Comanche Peak plan for the completion of  
18 outstanding regulatory actions dated May of '84. On page 2  
19 of the plan you indicate "this plan proposes the  
20 formulation of a TRT to evaluate and resolve a number of  
21 technical issues, including allegations presently identified."

22 Can you expand a little bit on the scope of what  
23 you understood was your mission, and in particular,  
24 distinguishing between issues that you were going to look  
25 at that came to the Staff as a direct result of an

1 allegation, and other matters that you were going to look  
2 at that didn't have their origin in an allegation.

3 MR. IPPOLITO: Yes. I think that AEOD stated it  
4 on March 12, established responsibility for managing all  
5 licensing actions to NRR. This included those actions  
6 necessary that are normally performed by the office of  
7 investigation, INE: the region, the hearing issues, as  
8 well as the licensing issues, and whatever allegations we  
9 were aware of. It was principally these four areas that I  
10 was responsible to coordinate, and resolve. The plan that  
11 you have before you provides -- it includes what a typical  
12 plan does include, schedules, manpower estimates, it also  
13 includes an estimate of the amount of work that has to be  
14 done at the time that plan was written.

15 MR. ROISMAN: So that your perception at that  
16 time of what the TRT's output would be would be --

17 MR. IPPOLITO: I'm sorry, continue.

18 MR. ROISMAN: Your perception as of June 11 of  
19 1984 of what the output would be was that it would in  
20 effect be the total technical report on the plant?

21 MR. IPPOLITO: What I described is my  
22 responsibilities. As part of that, I established a TRT.  
23 That is clearly stated in the plan. The TRT was to  
24 investigate the known and existing allegations that were  
25 known at the time, and I think that within that, you'll see

1 the distribution.

2 My recollection is there's something like 300 or  
3 so allegations that were being looked at, then there was  
4 something like about another hundred that were being  
5 distributed to OI, that remained in the region, and I  
6 forget whatever is in there but the parceling of the  
7 responsibilities are stated there. As part of the  
8 enclosures there are the charts, schedules, with the people  
9 responsible for them.

10 MR. ROISMAN: The part that puzzled me -- and  
11 let me read the phrase again -- was, "this plan proposes  
12 the formation of a TRT to evaluate and resolve a number of  
13 technical issues, including allegations presently  
14 identified." Were there some technical issues that TRT was  
15 going to look at that went beyond the scope of the  
16 allegations?

17 MR. IPPOLITO: If you looked at the record here,  
18 there are areas that are confusing as to what are  
19 allegations and what are technical issues. By that I mean  
20 if one looks at what has been happening at the hearings,  
21 when you speak -- like, in particular I'm thinking about  
22 the Welch Doyle issues. These were treated as issues to be  
23 resolved.

24 I had to assemble the people to resolve those  
25 issues, but when you looked at the allegations, what you

1 found is a total overlap. So I wasn't going to have people,  
2 two groups of people reviewing pipe hanger design or cable  
3 tray hanger design, and it is within that context -- there  
4 was an issue ongoing at the hearing that needed resolution.  
5 To the extent that the TRT had overlapped in that area,  
6 then we would cover it.

7 MR. ROISMAN: Were there any issues that related  
8 to technical problems that the Staff was aware of at the  
9 plant other than ones that would go to OI that the TRT was  
10 not going to look at?

11 MR. IPPOLITO: Yes.

12 MR. ROISMAN: You don't have to list them. Can  
13 you categorize them?

14 MR. IPPOLITO: I would say the licensing issues.  
15 For instance, I'll name two that come to mind immediately.  
16 One is the TDI, the diesel generators. There's a big  
17 problem, there was a generic problem with TDIs. Then we  
18 had a request by the licensee on the paint to declare the  
19 paint non-Q. It was -- that review was not done by the TRT.

20 MR. ROISMAN: When you say licensing issues,  
21 that's different than hearing issues?

22 MR. IPPOLITO: Correct.

23 MR. ROISMAN: Were there any issues -- was the  
24 Staff trying to at least encompass all the technical  
25 hearing issues within the scope of what the TRT would look

1 like?

2 MR. IPPOLITO: I just don't recall. There's a  
3 nice chart in that plan that lists responsibilities, and I  
4 think that we could save a lot of time if you just refer to  
5 that. That's what I attempted to do.

6 MR. ROISMAN: I'm not good on charts and I can't  
7 use the term "nice" for any of them. Why don't you tell me  
8 which one you particularly liked?

9 MR. IPPOLITO: Look at figures 2 and 3 of the  
10 plan.

11 MR. CHANDLER: So the record is clear, that was  
12 figures 2 and 3 attached to the letter dated June --

13 MR. ROISMAN: Attached to the May '84 plan  
14 attached to the letter of June 11, 1984.

15 Did you participate in the decision on how to  
16 divide the responsibilities between what the TRT would take,  
17 what would be done outside the TRT and by other components  
18 of the Staff and what would be done by consultants?

19 MR. IPPOLITO: Yes, I did, but clearly, a part  
20 of my responsibilities -- when I was appointed project  
21 director, I was told to attempt to use the line  
22 organization to the maximum extent that I could. In other  
23 words, those issues that are normally handled by a  
24 particular office, to the extent that I could, with  
25 resources available and time, what have you, I should try



1 to coordinate their efforts.

2 MR. ROISMAN: And in the preparation of this  
3 division of labor, what, as you understood it then, what  
4 was the operating criteria for whether a technical issue  
5 was looked at by the TRT rather than by somebody else?

6 MR. IPPOLITO: Say that again.

7 MR. ROISMAN: I'm trying to understand what was  
8 the operating criteria by which you decided whether it was  
9 to be looked at by the TRT or some other component.

10 MR. IPPOLITO: Other than those obvious things,  
11 I think I looked to see whether the line organization had  
12 sufficient expertise, knowledge available within time  
13 constraints to work on the job. If not, then I would  
14 attempt to supplement the TRT with the right consultant to  
15 endeavor to meet those criteria.

16 MR. ROISMAN: Your answer makes me think I  
17 haven't made my question clear. Some issues were to be  
18 resolved by the technical review team, whether by technical  
19 review team members who were Staff people on assignment or  
20 whether they were done by technical review team consultants.  
21 Some issues the technical review team was not supposed to  
22 look at, someone else was supposed to. One class of those  
23 issues was, for instance, all the issues that went to OI.  
24 Was there some set of operating criteria that you knew of  
25 or planned to develop that decided whether the issue was to

1 be looked at by the technical review team or by some other  
2 component of the Staff?

3 MR. IPPOLITO: There were no criteria. I  
4 decided -- excuse me.

5 MR. ROISMAN: If someone else has the answer, it  
6 may be more efficient to say.

7 MR. NOONAN: Staff can speak up if they want to.

8 MR. CALVO: My perception was that we looked at  
9 all the issues available at the time, so whether they were  
10 going to OI or other people, the technical merits, as far  
11 as it relates to the merits, that was given to the  
12 technical team.

13 MR. IPPOLITO: He's asking whether there existed  
14 a set of criteria by which a decision was made as to who  
15 would work on an item. My response is, like I say in the  
16 report here, I decided after examining the item to be  
17 looked at where it should be looked at.

18 MR. ROISMAN: Let's talk for a minute about the  
19 decision to give to OI the responsibility for looking at  
20 harassment and intimidation. Can you explain to me what it  
21 was that you understood was the way that responsibility was  
22 to be divided? What was it that OI was going to look at as  
23 opposed to what the TRT would look at?

24 MR. IPPOLITO: OI is responsible for looking at  
25 wrongdoing. They and only they are responsible for doing

1 that. If there were elements of wrongdoing, they would  
2 look at that portion of it. We would cooperate -- in their  
3 review of investigating wrongdoing there were possible  
4 technical issues involved, then we would cooperate with  
5 each other. We would extract from that portion of the  
6 issue, the technical issues. I would then transform them  
7 into "allegations," and insert them into the technical  
8 review team review process. But the technical review team,  
9 or NRR, as far as I know, looks at wrongdoing, and as I  
10 understand it, intimidation and harassment is included as a  
11 responsibility of OI. I stand to be corrected but that was  
12 my understanding at the time.

13 MR. ROISMAN: Is it -- I'm troubled by the term  
14 "wrongdoing." If a QC inspector -- if you learn that a QC  
15 inspector approved something that shouldn't have been  
16 approved -- you're doing a review, you find something, you  
17 check back and see that he signed off on something as  
18 satisfactory and it wasn't satisfactory, and it was a  
19 mistake. Is that wrongdoing by the QC inspector, without  
20 getting to the question of why he did it?

21 MR. IPPOLITO: I think it is a judgment call on  
22 the part of whoever uncovers this. If it looks like a  
23 typical human error, that's one thing. If it was  
24 determined to be premeditated or whatever have you,  
25 purposefully done, that's another matter. And if we

1 suspect that it is the latter, then we ask OI to look into  
2 it.

3 MR. ROISMAN: I want to be clear that I  
4 understand your understanding of this. The scope of what  
5 you understand OI would look at is if somebody appeared to  
6 do something wrong on purpose or as a result of somebody  
7 else improperly forcing them to do it against their will,  
8 that would be an OI concern, although you would still want  
9 to have the technical review team look at the underlying  
10 technical problem?

11 MR. IPPOLITO: That's correct.

12 MR. ROISMAN: Then you and OI would work  
13 together to the extent that they needed your input to  
14 understand what had gone on, and they would give you the  
15 benefit of anything they learned that might reflect on the  
16 technical problem?

17 MR. IPPOLITO: That's correct.

18 MR. ROISMAN: Did you, at the time that you  
19 started this whole TRT process, did you perceive that you  
20 would need to have the conclusions from OI before you would  
21 be able to have the Staff reach final conclusions about the  
22 plant safety? Was that linked in any way at the time you  
23 started the technical review team process?

24 MR. IPPOLITO: Yes. If you read the plan, the  
25 plan identifies OI as a possible impediment to meeting the

1 intended schedule. I think I identified in there that  
2 there are not sufficient people to complete these things in  
3 time for us to reach a licensing decision around 1 October  
4 of '84.

5 MR. ROISMAN: And why was it necessary to wait  
6 for OI to finish its work in order for the Staff to  
7 complete its work on the review of the plan?

8 MR. IPPOLITO: At the time, I thought it was  
9 necessary.

10 MR. ROISMAN: What was your reason or why did  
11 you believe that?

12 MR. IPPOLITO: Since effectively, I had the  
13 responsibility for total integration of all issues to their  
14 conclusion, that's the primary reason for it. I thought I  
15 had to wait to see what affect the OI reports could have on  
16 Comanche Peak.

17 MR. ROISMAN: In your determination to divvy up  
18 the responsibility for review between OI and the technical  
19 review team on issues of wrongdoing, where did you place  
20 the phenomenon, if it was one that you were aware of at the  
21 time, of employees who were not being forced to do  
22 something that they didn't believe they should do, but  
23 employees who believed that management was insufficiently  
24 supportive of their work and thus they were discouraged  
25 from doing their job as they thought they should do it?

1 MR. IPPOLITO: You should realize that when I  
2 assumed responsibility for Comanche Peak, I don't recall,  
3 as project director, requesting of OI any -- I take that  
4 back. There were about two instances that I wrote OI and  
5 asked them to look at something. Let's say a majority of  
6 the effort that was being done by OI had already been  
7 established there. I think we had some two, possibly three  
8 minor references for additional OI investigations as a  
9 result of what we as a team uncovered.

10 MR. ROISMAN: What was your definition, what was  
11 your working definition at that time, of what constituted  
12 the wrongdoing of harassment and intimidation? And by "that  
13 time," I'm talking about around June 11 of 1984.

14 MR. IPPOLITO: I personally had a difficult time  
15 in my mind separating management's style from intimidation.  
16 And this is after having read some of the OI reports. This  
17 uneasiness, I guess, stems from my personal background and  
18 personal knowledge of management, both here in the  
19 government, I mean in the Nuclear Regulatory Commission,  
20 and with the Navy, nuclear power program. But intimidation  
21 was defined, since it was the responsibility of OI, it was  
22 defined by OI at the time.

23 I think that subsequent to that, there were some  
24 formal hearings, pleadings, or whatever they are called,  
25 that established a definition of intimidation, so we



1 operated with that definition from that point on.

2 MR. ROISMAN: And this difficulty in your own  
3 mind between intimidation on the one hand and management  
4 style on the other, was it your perception that management's  
5 style was benign but intimidation was something of concern,  
6 and you just had a hard time drawing the line between the  
7 two, or was it that you thought they were both unacceptable  
8 and therefore the line-drawing was not so important?

9 MR. IPPOLITO: We're speaking theoretically here.  
10 There's an obsessive type of management style which is  
11 clearly unacceptable, but whether or not it results in  
12 intimidation, that's another issue. That's my personal  
13 feelings on the subject.

14 MR. ROISMAN: Now, when OI was doing its work as  
15 a result either of matters that you had referred to them  
16 because of what you were finding in your investigations or  
17 as preexisting work, was it your understanding that they  
18 were operating independently of NRR or were they operating  
19 under NRR's supervision?

20 MR. IPPOLITO: Oh, they were independent. They  
21 are independent of NRR.

22 MR. ROISMAN: Now, on page 3 of the May 1984  
23 plan, there's a reference to -- and it says, "The technical  
24 review team may be called together for a specified period  
25 of time, dispersed back to the individual's parent office

1 and then reconstituted in whole or in part as needed to  
2 complete resolution of like issues." What was your  
3 understanding of what that meant and how you thought that  
4 the TRT was going to function?

5 MR. IPPOLITO: As project director, at least,  
6 one has to realize that the home offices for the people I'm  
7 working on Comanche Peak with would like to have their  
8 people back and functioning. That simply is a warning to  
9 everybody that I have on my technical review team that I  
10 reserved the right to call these people back should  
11 something develop after they have, let's say, completed  
12 their initial assignment. It was just, you know, a caveat  
13 that says, I still have them if I need them. That's all.  
14 It was just a thing of planning.

15 MR. ROISMAN: What was your understanding, again  
16 at that time -- and I want to keep stressing that, I'm  
17 interested in understanding the breadth of the project, and  
18 I may ask you later, certainly Mr. Noonan later, its  
19 evolution -- but at that time, what was your understanding  
20 of what would happen with respect to technical issues that  
21 arose as a result of allegations made after the date that  
22 technical review team was formalized? Who was going to  
23 have responsibility to look into those allegations, and  
24 where would those be taken care of?

25 MR. IPPOLITO: All allegations -- let me give

1 you some background. One of the first things I did, and I  
2 think anybody would do, is to find out exactly what has to  
3 be resolved, how much work there is out to be completed.  
4 One of the items was to try to reconstruct or to construct,  
5 identify all of the allegations that we had in hand at the  
6 time. We did this. We categorized them into the five  
7 groups, and as you read the plan, that's what the plan says.

8 What we did was that everything from, let's say,  
9 around March or April, every allegation that came into the  
10 technical review team, it was reviewed and categorized and  
11 put into -- assigned to the appropriate group within the  
12 technical review team. That's the way it functioned until  
13 I left.

14 MR. ROISMAN: Did you have -- let's assume that  
15 something that didn't happen had happened, and I want to  
16 know based on that assumption what you thought was going to  
17 be the way the technical review team would deal with it.  
18 Sometime after the technical review team had completed its  
19 work and issued its report, several allegations were made  
20 to the NRC that require investigation. Did you expect that  
21 if that should happen that that would be one of the  
22 occasions on which you might reconstitute in whole or in  
23 part the technical review team to evaluate those?

24 MR. IPPOLITO: No. It was clearly my intent at  
25 that point, in fact I was proceeding at the time of the

1 fifth session, to discuss turnover of allegations back to  
2 region 4. It was just preliminary. We had intended to do  
3 that. They were going to revert back to region 4 and their  
4 normal course of doing -- I mean maintaining and reviewing  
5 the allegation tracking system and to proceed along those  
6 lines.

7 MR. ROISMAN: Was it your perception that the  
8 purpose of the technical review team was merely to provide  
9 logistics support for the Staff to be able to deal with  
10 what was becoming a large volume of work that could not be  
11 handled in the normal channels, or did it have some  
12 purposes beyond that?

13 MR. IPPOLITO: I think you used the word  
14 logistics, and clearly that's not correct, my understanding  
15 of it. It is to provide resolution of those issues. Is  
16 there a problem or is there ~~of~~ a problem for those  
17 allegations that we were looking at? Clearly, that was it.  
18 But you have to remember, as I said earlier, that I was to  
19 use, to the extent possible, the line organizations whose  
20 responsibility it was to perform the functions they did  
21 perform, so once we caught up, then I expected the normal  
22 functioning of each office to take over and proceed and  
23 continue to do its business.

24 MR. ROISMAN: How did you plan to deal with the  
25 fact that people, let's say from other regions, who were

1 working on assignment from TRT or from headquarters working  
2 on assignment with the technical review team, and had  
3 developed not only an expertise in the subject area but  
4 also an expertise in this particular plant, how did you  
5 perceive that they would be brought into a subsequent  
6 evaluation of an allegation when it was only going to be  
7 done within region 4, as the technical review team didn't  
8 exist?

9 MR. IPPOLITO: I would think that when I turned  
10 the thing back to the region, the region would manage it as  
11 they see fit. If they thought they needed that same  
12 expertise that I had developed under the technical review  
13 team, they would ask for it and get it. These are just  
14 guesses. I really don't know. I anticipated to return  
15 this to the region and that they would manage it as they  
16 saw fit.

17 MR. ROISMAN: You did not feel that you needed  
18 the technical review team because the region did not have  
19 the technical expertise to evaluate some of these issues?

20 MR. IPPOLITO: Say that again.

21 MR. ROISMAN: Did you feel you needed a  
22 technical review team in part because the region did not  
23 have the technical expertise to evaluate some of the issues?

24 MR. IPPOLITO: That was part of the  
25 decision-making. The other was the large backlog. The

1 other was -- I think you recall the region was pretty well  
2 committed to providing much of their Staff to the Waterford  
3 construction program, and there just were not enough people  
4 around.

5 MR. ROISMAN: On page 5 of the May 1984 plan,  
6 under the general heading "Inspections, regulatory actions,"  
7 this sentence appears: "Particularly significant is the  
8 retest/inspect effort as the applicant plans to rerun  
9 approximately 25 preoperational tests to confirm system  
10 readiness subject to various modifications and design  
11 changes." Was it your understanding that what was being  
12 proposed to be done by the applicant was to use some form  
13 of a readiness review of modification design change work in  
14 lieu of something else, to establish the adequacy of the  
15 modifications and the design?

16 MR. IPPOLITO: I don't know. I'm not even  
17 familiar with what you're saying.

18 MR. ROISMAN: You're not familiar with the  
19 sentence?

20 MR. IPPOLITO: I'm familiar with the sentence,  
21 but what you added to the sentence, I can't follow.

22 MR. ROISMAN: Are you familiar with the concept  
23 called readiness review? Does that have any meaning to you?

24 MR. IPPOLITO: Not right now, no.

25 MR. ROISMAN: Was it your understanding that the



1 applicants were going to do these preoperational tests as a  
2 substitute for some other regulatory requirement?

3 MR. IPPOLITO: My understanding of what this is,  
4 and if I -- I stand to be corrected -- and that is the  
5 applicant had run a large number of tests, but subsequent  
6 to those tests, the system had undergone modification,  
7 which placed into question the suitability of those tests,  
8 and as a result, they had to retest. This required  
9 additional manpower to rewitness or to inspect those tests,  
10 and that is what this alludes to.

11 MR. WESSMAN: This is Dick Wessman from the  
12 Staff. Fundamentally that's correct. This is typical of  
13 most power plants, they may run tests and may run over a  
14 couple of years, modifications may be made or test data may  
15 be invalidated so they have to rerun selected tests to  
16 confirm that the plant or the systems meet the appropriate  
17 criteria, and that was what was going on at this point in  
18 time.

19 MR. ROISMAN: It wasn't your understanding that  
20 the tests were being run as a substitute for confirming  
21 that the modifications or design changes otherwise met  
22 regulatory requirements?

23 MR. WESSMAN: I don't know about the term  
24 "substitute." They were just having to rerun tests because  
25 changes had been made to systems or test data had not been

1 completely validated in a previous run of the tests.

2 MR. ROISMAN: I want to understand a little bit  
3 more about the -- your understanding of the difference  
4 between the wrongdoings issue and its review by OI, and the  
5 effort by the technical review team. Let me try to  
6 approach it this way: When the technical review team had  
7 an allegation of a particular technical problem, let's  
8 assume that the allegation comes from someone who said, in  
9 addition to the fact that I think this particular component  
10 of the plan is not properly built, the reason I never said  
11 anything before was because I was being pressured to keep  
12 quiet about it; so we have a technical problem and we have  
13 what I assume would fit your definition of a wrongdoing.

14 Was the technical review team supposed to find  
15 out the answer to the question, why did this technical  
16 problem, assuming that on investigation you found the  
17 technical problem was real, why this technical problem did  
18 not get reported in the informal system of reporting at the  
19 plant? Was that part of what the technical review team's  
20 mission was to do?

21 MR. IPPOLITO: Part of the technical review  
22 team's mission was where a possible wrongdoing such as that  
23 was uncovered, what we do is ask OI in a memorandum for OI  
24 to initiate an investigation of that. Meanwhile, I would  
25 follow that up with discussions, I or my immediate staff,

1 to assure that we had a coordinated review of that item,  
2 both technical and wrongdoing.

3 The logic, I think, is clear. If we go in first,  
4 we stir up the information, the information may not be as  
5 clean for the subsequent investigation, so if we both go in  
6 at the same time, ask our questions quickly and of the  
7 right people, then we both satisfy ourselves that we got  
8 the best information possible to address the issue. So in  
9 those cases we would try to coordinate our technical review  
10 team effort and the OI effort, and we did that a number of  
11 times on-site.

12 MR. ROISMAN: My question was, was part of the  
13 technical review team's mission, as you understood it, to  
14 answer the question, why? Why is this technical problem,  
15 assuming that after looking at the allegation you confirm  
16 that the technical problem had in fact not been previously  
17 identified and it was a real problem that should have been,  
18 why it wasn't previously identified? Was the technical  
19 review team ultimately supposed to have an answer to that  
20 question?

21 MR. IPPOLITO: No. OI would have an answer to  
22 that question. OI would investigate that wrongdoing.

23 MR. ROISMAN: Let me change the example. Assume  
24 that the problem arose, alleged came in to you, said  
25 there's a technical problem over here that has not been

1 detected before, and the reason was because the inspector  
2 who was supposed to have detected it was not properly  
3 trained and did not therefore understand that that was a  
4 problem. I take it that would not constitute an OI  
5 wrongdoing. Would you consider that the technical review  
6 team was supposed to not only determine whether the  
7 technical problem was real, but also try to determine why  
8 it was that the technical problem had not been reported?

9 MR. IPPOLITO: We would investigate the  
10 sufficiency or adequacy of the training program for those  
11 people.

12 MR. ROISMAN: Was that in part in order to be  
13 able to determine how much further beyond the allegation  
14 you should look to determine -- in other words, this  
15 alleged only saw one thing and they only knew this one  
16 inspector who they thought had not been properly trained,  
17 so they gave you that piece of information. You go out and  
18 investigate it and find that the technical problem is real.  
19 You look at the inspector's qualifications and discover he  
20 really wasn't qualified, and therefore we think we can say  
21 with a reasonable degree of confidence, the reason the  
22 technical problem was missed was the guy wasn't qualified.

23 Was it the technical review team's  
24 responsibility to begin to look at all the other places  
25 where the lack of qualification of that person might have

1 produced a problem that no allegor had ever seen?

2 MR. IPPOLITO: I was following you right to the  
3 end.

4 MR. ROISMAN: A problem that you didn't  
5 otherwise know about, this same inspector inspected a  
6 thousand things.

7 MR. IPPOLITO: Using your example, the technical  
8 review team would pursue the training to see, to try to  
9 determine whether or not in our opinion it was generic.

10 MR. ROISMAN: You mean the inadequacy of  
11 training?

12 MR. IPPOLITO: That's right. This is not to say  
13 that we would go -- and let's say if there were 8000 people  
14 on site -- we would not go see the training records for  
15 8000 people. We would audit until we were satisfied that  
16 it looks like there's a generic problem here. Once we were  
17 satisfied, that there was or wasn't, then we would stop.  
18 That's the way we performed our responsibilities.

19 MR. ROISMAN: What about looking at the other  
20 piece of it? Let's assume that in your look, as a result  
21 of this allegation, you found not only that this technical  
22 problem had occurred, but that on this inspector, A,  
23 inspector A was unqualified, and that it was a result of  
24 something that didn't relate to other inspectors, only  
25 inspector A was unqualified. He was really badly trained,



1 didn't know what he was doing. Would the technical review  
2 team consider that part of what its responsibility was,  
3 then, to go and inspect all of the things that that  
4 inspector had evaluated to determine whether other  
5 technical problems slipped by the process because this one  
6 untrained inspector was doing the inspections?

7 MR. IPPOLITO: No. We identified -- the modus  
8 operandi, if you will, of the technical review team is to  
9 determine whether or not they feel, after doing their  
10 review, that there was or was not -- that the allegation  
11 was substantiated or not. If it wasn't substantiated we  
12 would stop there, and the burden as to the depth and  
13 breadth of that problem was placed on the licensee.

14 MR. ROISMAN: Do you know why that decision was  
15 reached, why it was decided that the technical review team  
16 would stop at that point?

17 MR. IPPOLITO: Because I could not possibly  
18 follow that course of action in everything that technical  
19 review team was doing. The 40 or 50 people on site was  
20 totally inadequate to review each of the things for breadth  
21 and depth. That was not the way we set it up and clearly  
22 not the way -- we just couldn't afford it and it was not or  
23 responsibility.

24 The responsibility for building that plant, for  
25 building it safely, was the licensee's, and once we had the



1 suspicion that they were possibly not conforming then it  
2 was up to him to provide the depth and breadth and provide  
3 corrective action.

4 MR. ROISMAN: Why did you not stop with  
5 confirming that the technical problem was real? Why did  
6 you even go the next step in our hypothetical and look to  
7 see if the training program was generically defective?

8 MR. IPPOLITO: As far as I'm concerned that's  
9 another technical issue. It would be a QA/QC issue. Was  
10 the training program adequate?

11 MR. ROISMAN: Isn't it also a technical issue as  
12 to whether or not that QA or that group of QC inspectors  
13 may have missed a thousand other defects?

14 MR. IPPOLITO: I've answered that. I've said we  
15 looked into it to the extent that we are satisfied that  
16 there is or is not a problem. If there is, if we're  
17 convinced that there is, we don't go back to see if the man  
18 had been there seven years, we don't go back seven years to  
19 find out what the man did. That's up to the licensee to do  
20 and that is what he was told to do.

21 MR. ROISMAN: I understood the conclusion, I was  
22 trying to understand the reasoning.

23 MR. IPPOLITO: The reasoning is it is impossible  
24 for the technical review team or any other group to come in  
25 after the plant is built to try to -- we don't have enough

1 people nor enough time to go into that depth, and it is the  
2 responsibility of licensee's, in any event.

3 MR. ROISMAN: I was trying to understand why the  
4 technical review team even took on the responsibility of  
5 finding out whether in their judgment they thought that the  
6 problem was generic or not. Why wasn't that also treated  
7 as the licensee's responsibility? Why wasn't it sufficient  
8 for you merely to confirm that the alleged's statement that  
9 this particular defect had gone undetected was correct and  
10 then say to the licensee you find out whether it is generic,  
11 find out what caused it and do whatever reinspection or  
12 rework that leads you to.

13 MR. IPPOLITO: I think I wanted to satisfy  
14 myself that is this an isolated case or is this larger than  
15 isolated. Clearly, you are right, it takes us a step  
16 further, but it still is an audit to the extent that we  
17 could say, I believe it is generic or from what I have seen,  
18 it is not generic.

19 MR. ROISMAN: As you went through the work you  
20 were doing, did you develop any opinion as to whether or  
21 not you felt that the approach that the technical review  
22 team was taking, this distinction that we have been talking  
23 about, wrongdoing goes to OI, we look for whether a problem  
24 is generic but not necessarily the full breadth and depth,  
25 whether you would be able at the end of the technical

1 review team to say with confidence that the facts justified  
2 them, that the plant was safe or you felt that the only  
3 thing the technical review team could do was to determine  
4 whether it was indeterminate or unsafe?

5 MR. IPPOLITO: I have no idea how to answer that  
6 question. My personal opinion --

7 MR. ROISMAN: Did you think that the technical  
8 review team was inherently incapable of saying this plant  
9 is safe, was that really beyond what it could ever do?

10 MR. IPPOLITO: Clearly, the responsibility of  
11 the technical review team was to identify those areas of  
12 weakness that we discovered during our review. The  
13 applicant is responsible to take that and to determine the  
14 extent and breadth of the problem. Apparently that's  
15 happening now.

16 MR. ROISMAN: Is it correct that your immediate  
17 supervisor, the one who established what would be your  
18 marching order, so to speak, was Mr. Eisenhut?

19 MR. IPPOLITO: That's correct.

20 MR. ROISMAN: And that you met with Mr. Eisenhut,  
21 I assume, on a number of occasions even before you  
22 developed the technical review team plan to determine how  
23 you should approach this, is that how you approached that?

24 MR. IPPOLITO: The answer is I met with  
25 Mr. Eisenhut many times between my initial assignment and

1 the development of the plan, but the responsibility for the  
2 plan was mine. What I needed was mine. How I would do it  
3 was mine. I put it down on paper, and it went through the  
4 normal concurrence chain, and it was developed by me, and  
5 he concurred in it, and as you can see from the front of  
6 the plan, so did the other responsible office directors.

7 MR. ROISMAN: So the plan originated with you  
8 and then Mr. Eisenhut had to review it and approve it  
9 rather than he giving you the outlines of the plan, saying,  
10 fill in the details?

11 MR. IPPOLITO: That's correct.

12 MR. ROISMAN: Ms. Garde wants to ask you some  
13 questions dealing with what we have called -- I don't know  
14 what you call it -- the surprise visit in April of 1984,  
15 and she will ask you some questions about that.

16 MS. GARDE: I have a cold, so if I am not coming  
17 across clearly just ask me to repeat the question.

18 The report, your report dated -- the cover  
19 letter is dated July 13 from Mr. Eisenhut to Mr. Spence,  
20 which is the cover letter for the special review team  
21 report. It starts out with an executive summary and then  
22 goes into the background for each section, and under  
23 section A, management organization, you talk about an  
24 entrance meeting, the afternoon of April 3; and do you have  
25 this report with you?

1 MR. IPPOLITO: No.

2 MS. GARDE: I'll read you the sentence then.  
3 "The afternoon of April 3 the special review team arrived  
4 on site unannounced. The team spent the afternoon of  
5 April 3 and the morning of April 4 meeting with applicant's  
6 senior corporate management, site management, site QA  
7 management and document control supervision, being briefed  
8 on the organization functions and locations of areas under  
9 their control." I have some questions on that.

10 MR. IPPOLITO: Go ahead.

11 MS. GARDE: In the categories of personnel that  
12 you met with, senior corporate management, did you attend  
13 all these meetings?

14 MR. IPPOLITO: No.

15 MS. GARDE: Were you at the meeting with senior  
16 corporate management?

17 MR. IPPOLITO: Yes.

18 MS. GARDE: Who was at that meeting?

19 MR. IPPOLITO: Oh, God.

20 MS. GARDE: Let me give you names. Was  
21 Mr. Eisenhut with you?

22 MR. IPPOLITO: For the Staff? I was senior  
23 Staff representative there. Paul Bemis, the special team  
24 leader, was also there. That's my recollection. We met  
25 with Mr. Fiker, I think maybe John Merritt, to tell them,

1 we're here, we're going to do a job, we want your  
2 cooperation, we don't want any impediments of doing a quick  
3 look.

4 MS. GARDE: This meeting was on the site?

5 MR. IPPOLITO: Yes.

6 MS. GARDE: Mr. Fiker was on the site.

7 MR. IPPOLITO: Correct.

8 MS. GARDE: Is that what you refer to when you  
9 say applicant's senior corporate management?

10 MR. IPPOLITO: Yes. The only time we met with  
11 management was at the site.

12 MS. GARDE: So this --

13 MR. IPPOLITO: I call Lou Fiker corporate  
14 management. I think he was executive vice-president or  
15 vice-president.

16 MS. GARDE: This paragraph, then, does not  
17 include the reference to the meeting between Mr. Eisenhut,  
18 Mr. Hayes and Mr. Britten, that's not referred to in there?

19 MR. IPPOLITO: No.

20 MS. GARDE: Okay, then the next, do you remember  
21 anyone besides Mr. Fiker and Mr. Merritt being at that  
22 meeting? Was Mr. Tolson at that meeting?

23 MR. IPPOLITO: I just don't recall.

24 MS. GARDE: The next category that you name --  
25 going back to this meeting and to each of them that I talk



1 about next, if there's minutes of this meeting --

2 MR. IPPOLITO: No.

3 MS. GARDE: There was none -- that you prepared?

4 MR. IPPOLITO: There were, to my knowledge,  
5 there were no minutes. The report that you see is intended  
6 to tell you the whole story of the special review team.

7 MS. GARDE: But there are drafts to this report?

8 MR. IPPOLITO: I don't know.

9 MS. GARDE: If the FOIA office says there are  
10 drafts to this report --

11 MR. IPPOLITO: Then they exist.

12 MS. GARDE: The next category is site management  
13 which is different in this report than site corporate  
14 management. Who does that refer to?

15 MR. IPPOLITO: I don't know.

16 MS. GARDE: Do you want to look at this?

17 MR. IPPOLITO: Yes. Wait, she has one. What  
18 page is it?

19 MS. GARDE: Actually, I think it is page 3 that  
20 doesn't have a page number on it, right after the table of  
21 contents.

22 MR. IPPOLITO: It does have a page number.

23 MS. GARDE: Starts A, management organization.  
24 Do you have that?

25 MR. IPPOLITO: Oh, you have a different --

1 MS. GARDE: Okay, I think we have the same thing  
2 but you are back after the executive summary.

3 MR. IPPOLITO: What I have is not -- yours and  
4 ours are different. You must have a previous draft or  
5 something.

6 (Discussion off the record.)

7 MR. NOONEN: Back on the record.

8 MS. GARDE: Tom, during the break, we  
9 coordinated our --

10 MR. IPPOLITO: Let me try to reconstruct what  
11 happened.

12 MS. GARDE: Okay, that would be good.

13 MR. IPPOLITO: The whole endeavor was for me as  
14 new project director to find out what was happening first  
15 hand as quickly and without any -- try to make it as  
16 complete a surprise as possible. When we hit the site,  
17 often I have to talk to management, saying I'm here to do  
18 my thing, and I would like certain things from you, and get  
19 their cooperation. And that was achieved. That was with  
20 senior corporate. Then we had a number of other meetings.  
21 My recollection is, like, the document control was unique  
22 to Comanche Peak, so we got site management/head of  
23 document control to describe the process to them. We tried  
24 to do that up front so we could understand the system at  
25 that plant at that time. These were these various levels

1 of meetings that we had. From that, we just, then, each of  
2 the specialists that I had went out and started his  
3 investigation.

4 MS. GARDE: Okay, let me back you up a little  
5 bit. For senior corporate management you named Fiker and  
6 Merritt. Site management, that's where we broke, you  
7 hadn't named anyone. Have you -- who was --

8 MR. IPPOLITO: I remember Vega was there.  
9 George may have been there, should have been there.

10 MS. GARDE: You don't remember?

11 MR. IPPOLITO: I just don't.

12 MS. GARDE: Site QA management?

13 MR. IPPOLITO: I guess that was Vega, wasn't it?

14 MS. GARDE: So your only recollection is  
15 Mr. Vega?

16 MR. IPPOLITO: Yes.

17 MS. GARDE: You don't recall whether Mr. Tolson  
18 was there?

19 MR. IPPOLITO: No.

20 MS. GARDE: Document control supervision,  
21 Mr. Hutchinson?

22 MR. IPPOLITO: I don't know.

23 MS. GARDE: To the best of your knowledge  
24 there's no notes of these meetings that would indicate who  
25 was at them?

1 MR. IPPOLITO: No.

2 MS. GARDE: You said that you wanted this to be  
3 as complete a surprise as possible. Was it a surprise?

4 MR. IPPOLITO: From the look on Mr. Fiker's face,  
5 it was.

6 MS. GARDE: What did you tell Mr. Fiker was your  
7 task when you arrived?

8 MR. IPPOLITO: As stated in the report. We  
9 wanted to determine the degree of management control over  
10 construction, inspection and testing, and I wanted to get  
11 information on which to base -- help me develop the plan.

12 MS. GARDE: Did you tell him that you were going  
13 to be looking at allegations?

14 MR. IPPOLITO: No. Excuse me, I said that -- I  
15 just told them two things as stated.

16 MS. GARDE: Management control and information  
17 which would serve as a basis for --

18 MR. IPPOLITO: That's correct; that's all he  
19 knew.

20 MS. GARDE: Did you tell him that you were going  
21 to be going out on the site doing actual inspections?

22 MR. IPPOLITO: Yes.

23 MS. GARDE: And did you tell him you were going  
24 to need access to documents from the vault?

25 MR. IPPOLITO: Yes.

1 MS. GARDE: What was --

2 MR. IPPOLITO: I'm sorry, you're saying  
3 something now -- we tried -- I think the answer to that is  
4 no. I didn't -- our purpose is to try to hit the vault and  
5 see what's there at the vault at the time without  
6 pre-knowledge. So to the extent that we could do this, we  
7 did. We knew where the vault was and that was the purpose  
8 of the initial meetings, get the lay of the land; where is  
9 what; how is it supposed to work. And then we hit the  
10 vaults and we hit the different -- one or two, I think, of  
11 the document control satellites, and the other things we  
12 did.

13 MS. GARDE: Mr. Ippolito, in your experience at  
14 the NRC, how common is the type of surprise, unannounced  
15 visit that you made on April 3?

16 MR. IPPOLITO: I personally do not know of any  
17 other that's ever been done. There may have been, but I'm  
18 not familiar with them.

19 MS. GARDE: Now, what was Mr. Fiker's reaction?

20 MR. IPPOLITO: His reaction was surprise but  
21 cooperative.

22 MS. GARDE: Now, if you go through the next  
23 several pages, a little over two pages, of your report, you  
24 talk about management organization, how the project is set  
25 up, and at page 2 you say, "The current positive management

1 attitude is a strength exhibited at Comanche Peak for both  
2 operations and the engineering and the construction sides  
3 of the company." What is the basis for that statement?

4 MR. IPPOLITO: Let me set aside that question  
5 for a moment. The very purpose of this report was not to  
6 resolve technical issues. It was to determine the degree  
7 of management control over the construction of that plant  
8 and to give me information on which to base a plan to do  
9 what I was asked to do. That's all it was. I personally --  
10 if you want to go to that level of detail, I cannot go to  
11 that level of detail. The people involved that were  
12 involved in doing this could answer that, and that is the  
13 team people themselves.

14 MS. GARDE: Well, Mr. Roisman is going to ask  
15 the questions on the executive summary. Maybe it would be  
16 appropriate for you to go through those first, Tony, and  
17 then I'll follow with the follow-up questions. We'll go  
18 through the executive summary first, and then if you have  
19 not answered or there's something to be clarified, I'll  
20 pick it up.

21 MR. ROISMAN: Let's start with, in light of what  
22 you just said to Ms. Garde, are you the author of the  
23 executive summary?

24 MR. IPPOLITO: No.

25 MR. ROISMAN: Who is?



1 MR. IPPOLITO: Paul Bemis.

2 MR. ROISMAN: Do you endorse what's there?

3 MR. IPPOLITO: Yes. I signed it.

4 MR. ROISMAN: Did you endorse it because you  
5 knew it was right or because you trusted Mr. Bemis wouldn't  
6 have said it was there if it wasn't right?

7 MR. IPPOLITO: I selected the people. I had  
8 good people. This was the conclusions of their findings,  
9 and that was satisfactory with me.

10 MR. ROISMAN: Looking at the executive summary  
11 on page 4, this statement appears: "The team's findings  
12 indicated that the applicant's management control over the  
13 construction, inspection and testing programs is generally  
14 effective and is receiving proper management attention."  
15 What is meant by that statement?

16 MR. IPPOLITO: Within the context of this quick  
17 look, the degree of control of the applicant's management,  
18 I had to determine as to whether construction should  
19 continue. Some of the information that I was receiving  
20 early on was describing the construction control as out of  
21 hand. I had to make the finding personally myself whether  
22 or not this was in fact the case. Is construction out of  
23 hand, and what that means is that, hey, we looked, 10 days  
24 or whatever it was, less than 10 days. What we saw, it is  
25 not out of hand. That's all it says.

1 MR. ROISMAN: Did you look to see whether  
2 management was in proper control or was it only relevant  
3 for purposes of this look?

4 MR. IPPOLITO: This look only.

5 MR. ROISMAN: To determine that they were in  
6 charge, not that they were doing the right thing, but  
7 whatever was being done was being done at their direction?

8 MR. IPPOLITO: I don't know how to separate the  
9 two.

10 MR. ROISMAN: For instance, to use a  
11 hypothetical, I take it they could have been in control of  
12 a massive program of harassment and intimidation, which  
13 they were firmly behind, 100 percent, everybody in control  
14 and everybody was marching in lock step to the orders that  
15 came down from control. That would be controlled action,  
16 correct?

17 MR. IPPOLITO: Yes. That's not what I had in  
18 mind.

19 MR. ROISMAN: Tell me what you had in mind.

20 MR. IPPOLITO: What this report says, in total,  
21 says we went and looked at various aspects. When we went  
22 to look, we looked at -- and it identifies to you the  
23 papers they looked at, the NCRs and the inspection reports  
24 and packages out of document control. What I saw there  
25 does not indicate to us that this is out of control. They

1 examined them. They were in order for the most part.  
2 What's here is not out of control.

3 MR. ROISMAN: So your statement was intended not  
4 only to communicate --

5 MR. IPPOLITO: Sorry, not my statement.

6 MR. ROISMAN: You signed it.

7 MR. IPPOLITO: All right, I see what you mean.  
8 Fine.

9 MR. ROISMAN: If your signature on it means that  
10 I shouldn't use the phrase, "your statement," tell me so  
11 and I won't --

12 MR. IPPOLITO: I'm responsible for this document.

13 MR. ROISMAN: Is it all right with you if I call  
14 the statements your statements?

15 MR. IPPOLITO: So you understand I'm responsible  
16 for this document. I would have questioned anything that I  
17 thought was not supported.

18 MR. ROISMAN: You made an effort to determine  
19 with respect to these statements what the basis was?

20 MR. IPPOLITO: Based on what the information is  
21 here.

22 MR. ROISMAN: Just what we find in the report  
23 was the basis you used for determining that the executive  
24 summary was or was not supported?

25 MR. IPPOLITO: That's correct.

1 MR. ROISMAN: You made no effort to evaluate  
2 whether the report itself had a basis?

3 MR. IPPOLITO: I couldn't have. Six individuals  
4 -- the logistics as well would not have allowed it.

5 MR. ROISMAN: Did you make an effort to take a  
6 few isolated instances to see, in your judgment, you  
7 thought they had done the proper job reaching conclusions  
8 based on what they had learned?

9 MR. IPPOLITO: Paul Bemis was satisfied that  
10 these were in fact -- that in fact did happen.

11 MR. ROISMAN: Do you know whether Paul Bemis  
12 went to his individual people and in effect questioned them  
13 to make sure that they had a good basis for what they were  
14 saying?

15 MR. IPPOLITO: That's my understanding.

16 MR. ROISMAN: Did you ever ask him that question,  
17 do you remember?

18 MR. IPPOLITO: No, but what I did say was I  
19 wanted to be sure that everyone on the team agreed to the  
20 report in its final standing, and they all agreed to the  
21 report in its final standing.

22 MR. ROISMAN: As written?

23 MR. IPPOLITO: As written. Everybody agreed to  
24 it.

25 MR. ROISMAN: Everybody thought it was right.

1                   Is it your understanding that the basis for --  
2                   just looking at this statement for a moment -- that the  
3                   real basis for this statement is the material gathered by  
4                   and observed by the members of the special review team  
5                   which is just summarized in the report -- these other data  
6                   that would form the basis for this, including their own  
7                   observations?

8                   MR. IPPOLITO: I think when you look through the  
9                   report, if you look through the report, it mentions what  
10                  they looked at. They looked at certain NCRs. I'm looking  
11                  at page 34. "Review of the design calculations for pipe  
12                  support." They looked at support and list exactly what  
13                  they looked at. They told you exactly where it was. This  
14                  is what they looked at, and based upon what they looked at,  
15                  okay, and this is exactly what they did. So it wasn't --  
16                  and here on page 28, conduits. They list exactly what  
17                  conduits they looked at.

18                  MR. ROISMAN: I just wanted to be clear that it  
19                  is not the basis for this statement, and the same statement  
20                  or an expanded version of it appears in the body of the  
21                  report on page 2, which is what Ms. Garde had read to you  
22                  before we went back to the executive summary, the basis is  
23                  not just what is in the report but it is also what the  
24                  report references as having been looked at?

25                  MR. IPPOLITO: Yes.

1 MR. ROISMAN: Do you know what criteria were  
2 used for making the judgments as to whether, based upon  
3 that data that was looked at, one would say that management  
4 did or didn't have control, did or didn't have a positive  
5 attitude?

6 MR. IPPOLITO: Information, I believe, is within  
7 this report. What this report is telling you is that they  
8 examined the program. Was the program all right? Talking  
9 about management QA/QC, for instance. We went, in fact, I  
10 think Paul Bemis himself went to corporate headquarters and  
11 looked at the QA/QC program. What it is supposed to be,  
12 and based upon the plan that was approved by the NRC or the  
13 ASME codes, whatever the ASFR and the requirements were  
14 established for whatever we're looking at, formed the basis  
15 for them to look at.

16 MR. ROISMAN: I understand that, but if the  
17 report had contained in it statements that said, we looked  
18 at this particular drawing and the drawing conformed to  
19 procedures, then I could understand without asking further  
20 how it was that you could determine the drawing conformed  
21 to procedures. It is when the report includes statements  
22 such as those that are more general, "Management control  
23 over construction inspection and testing programs is  
24 generally effective and is receiving proper management  
25 attention." How did you know that you had looked at enough



1 of the plant in that visit to be able to have a conclusion  
2 on that? What criteria were you using to decide whether  
3 you could give a positive answer or give an indeterminate  
4 or a negative?

5 MR. IPPOLITO: I made a statement earlier about  
6 what this report should be used for. It was -- it was a  
7 quick look at that moment in time. Does it look like there  
8 is control? The technical review team did the rest of it.  
9 This just allowed me to say it looks like they are in  
10 sufficient control for them to continue while the technical  
11 review team does its effort. I made this abundantly clear  
12 in new reports, and Ms. Garde is fully aware of how this  
13 report at the time was taken out of context. I placed it  
14 in its proper context.

15 It is a very special report. It was a quick  
16 look to do two things and it did it. Didn't say to  
17 establish acceptability of the QA/QC program forever and  
18 ever. The team did not have the knowledge of all of the  
19 allegations of all of the issues when they went down there.  
20 They looked at just what they had in their hands at the  
21 time. It was a quick look.

22 MR. ROISMAN: I understand that. I'm not trying  
23 to ask you the question of whether or not this report  
24 represents the definitive answer to the question. What I'm  
25 trying to understand is, what were the criteria that were

1 used for purposes of this report to be able to answer the  
2 question at all. Did you, for instance, have in your head  
3 before you went down there that if half of the problems  
4 that were alleged to exist were found to exist that you  
5 couldn't make this kind of a positive statement about  
6 management control, or did you -- what criteria did you use  
7 to decide whether you could make the statement or not?

8 MR. IPPOLITO: I was prepared to report back to  
9 Mr. Eisenhower if this team found that there was not  
10 sufficient management control over construction, and I  
11 would, based upon my judgment and the team's input, I would  
12 make a recommendation to Mr. Eisenhower as to what to do at  
13 that point. That was clearly -- we thought of the  
14 possibility of that and we were aware that that might  
15 happen. But based upon the various elements of this report,  
16 the five areas or six areas looked at, this is the sum of  
17 those five or six areas.

18 MR. ROISMAN: We're still passing in the night.  
19 I'm afraid that you are treating my questions as a  
20 challenge to the correctness of the conclusion. That's not  
21 the purpose of it.

22 MR. IPPOLITO: No, no.

23 MR. ROISMAN: The purpose is to understand the  
24 basis for the conclusion. I can understand in the report  
25 the basis for a conclusion that a pipe support base plate

1 design using concrete expansion anchor bolt requirements  
2 was evaluated and a conclusion was made about it. There  
3 are written criteria that deal with those issues. Your  
4 people went down, presumably looked at the relevant  
5 documentation, compared it to the requirements and came up  
6 with a yes or no. This one I can't find any written  
7 criteria, so I'm trying to find out what were the criteria.  
8 How did you know that they didn't have management control?  
9 What factors would you look for or what factors did you  
10 look for to decide the answer to that question?

11 MR. IPPOLITO: What we looked at were the  
12 drawings, in fact, controlled effectively. That is, there  
13 is a procedure set up to control drawings. We, the team,  
14 became familiar with those procedures. Were they in fact  
15 controlled according to those procedures? For each of the  
16 areas looked at that was the type received in storage, the  
17 procurements, all things were looked at, the procedures  
18 that established were accepted by the NRC Staff as an overall  
19 program. The answer is yes.

20 MR. ROISMAN: I'm glad you mentioned drawings.  
21 Let's take a look on page 6, still in the executive summary.  
22 Page 6 under the general heading "Quality Assurance/Quality  
23 Control," under the category 2, weaknesses, "Both of the  
24 weaknesses appear to relate to problems with drawings.  
25 Number of the strengths, with the exception of now having

1 computer system for drawing control instead of stamped  
2 drawings, relate specifically to that."

3 Can you just discuss with me, as best as you  
4 understand it, how the existence of the drawing weaknesses  
5 and whatever strengths there were form a basis for the  
6 conclusion that there was adequate management control with  
7 respect just to the drawing question?

8 MR. IPPOLITO: My understanding of what they  
9 found, for instance in part 2-B, if you will, the  
10 weaknesses, is that the team really couldn't say that you  
11 could not build a plant with 300 changes with the drawing.  
12 They said it would be extremely difficult, not that it  
13 couldn't be done. That's a weakness. They said it would  
14 be difficult to do, and it is prone to error. It is that  
15 type of thing. It could be done. Then when you add that  
16 to -- they went out and looked and whatever they looked at --  
17 and when they went to look at certain -- from these  
18 drawings they looked at the equipment itself, they found,  
19 my recollection is that they found pretty good -- what was  
20 there was all right. What was built was satisfactory.

21 MR. ROISMAN: Is it your understanding of what  
22 they did was they took the very packages in which they  
23 found, let's say, 300 CMCs or DCAs and went out to look at  
24 the component and determined, after having themselves gone  
25 through all the DCAs and the CMCs for that packet, how this

1 was supposed to be built and they then did an inspection of  
2 that thing, whatever it was? And they determined that  
3 someone had properly worked their way through the 300 and  
4 built it right? Is that your understanding of what they  
5 did?

6 MR. IPPOLITO: Yes.

7 MR. ROISMAN: And that this was done with all of  
8 the ones that they found that formed the basis for the  
9 statement in 2-B?

10 MR. IPPOLITO: Whatever it was.

11 MR. ROISMAN: Is it your understanding that 2-A,  
12 the one certain drawing packet issued to the field  
13 containing nonapplicable CMCs and DCAs, that there also  
14 they went into the field and determined that on those  
15 packages it still had been built correctly?

16 MR. IPPOLITO: That's my understanding.

17 MR. ROISMAN: Did the fact that those drawing  
18 packages had these deficiencies in them, did you attempt or  
19 did the special review team attempt to find out why, why  
20 that existed?

21 MR. IPPOLITO: One, our primary purpose was to  
22 determine whether or not this was under control; it was not  
23 to try to determine root causes. Did they have enough  
24 control over this thing? And if it fell out, it fell out.  
25 When this thing was issued, I think it is a matter of

1 record that this report was given to the technical review  
2 team to follow up on. All of the issues and everything  
3 that was done in here -- there was a list of things, is my  
4 recollection -- and that was turned over to the technical  
5 review team for more in-depth review.

6 MR. ROISMAN: Is it fair to say that the  
7 existence of these document problems did not indicate that  
8 there was adequate management control, at least as to those  
9 documents?

10 MR. IPPOLITO: I guess that's right. Yes.

11 MR. ROISMAN: Would it be fair to say that based  
12 upon what you looked at as to the question of management  
13 control over documents, that piece of the whole puzzle,  
14 that what you saw indicated that there was not proper  
15 management control over documents?

16 MR. IPPOLITO: I don't believe so. I don't  
17 think that's what this report says. I think it says that  
18 there was. There are some weaknesses in it, but management  
19 knew what it was doing. That's what this report says.

20 MR. ROISMAN: At the bottom of page 5 in  
21 executive summary under the review findings category, the  
22 carry-over sentence goes to page 6, indicates there appears  
23 to have been a communications problem on the on-site QA/QC  
24 chain in the past, but according to interviews conducted  
25 during this review, the problem has and is being corrected.



1 To what does the reference, "a communication problem in the  
2 on-site QA/QC chain in the past" refer?

3 MR. IPPOLITO: Apparently during the interviews --  
4 and that's a section in this report, describes more clearly  
5 what that means -- that during these interviews, people did  
6 identify that there had been some organizational changes.  
7 My recollection is that when we arrived, they were in place  
8 and people felt more comfortable with the people that were  
9 at that time and place, and that's what the interviews  
10 seemed to indicate and that's what he reported.

11 MR. ROISMAN: If the communication problem that  
12 had existed in the past still had existed on the site when  
13 you were doing this review, would that have been a basis  
14 for concluding that management was not in control of  
15 construction, inspection and testing programs?

16 MR. IPPOLITO: I won't say -- I won't answer  
17 that. Tony, it depends upon what the facts are. I don't  
18 know. You want to hypothesize? It all depends; the answer  
19 is it all depends on how bad it is.

20 MR. ROISMAN: Exactly whatever your people  
21 learned in the past. What if they heard everything you're  
22 telling me they heard about the past and the only thing  
23 they heard different was that all the people they  
24 interviewed said nothing has changed?

25 MR. IPPOLITO: Since we're hypothesizing, if

1 these interviews indicated the reverse, I think that I  
2 would have to look deeper into it before I would make the  
3 conclusion that you're asking me to make.

4 MR. ROISMAN: Do you remember whether you  
5 yourself were aware at the time that you did this surprise  
6 visit in April of '84 of an event called the T-shirt  
7 incident?

8 MR. IPPOLITO: Yes.

9 MR. ROISMAN: You were aware of that?

10 MR. IPPOLITO: Yes.

11 MR. ROISMAN: Do you know the extent to which  
12 your people investigated, if at all, the facts underlying  
13 that?

14 MR. IPPOLITO: What people?

15 MR. ROISMAN: The people on your special review  
16 team.

17 MR. IPPOLITO: This report tells you that as a  
18 minimum we interviewed a number of them. I don't know how  
19 many. And in fact, as a matter of record, you have the  
20 names of the people and their statements and their  
21 involvement, so you know who are the T-shirt people. You  
22 know their names. You have their statements, their  
23 unsanitized statements. That was provided you as a matter  
24 of record. You were there, I gather; isn't that right?

25 MR. MIZUNO: Yes, that was provided to Billie

1 Garde, I believe, in June of 1984.

2 MR. ROISMAN: I want to be clear that what we  
3 have here is all that special review team had for purposes  
4 of evaluating that event and factoring it into the general  
5 conclusions.

6 MR. IPPOLITO: That's it.

7 MR. ROISMAN: Still looking at page 6 in the  
8 executive summary, the statement appears that "Management  
9 and craft at Comanche Peak appeared to be competent and  
10 management to possess a positive attitude which is a  
11 strength of this project." What did you mean by the phrase  
12 "positive attitude"?

13 MR. IPPOLITO: I meant by that that their whole  
14 intent was to complete this project safely and on schedule.  
15 And when there was a problem, they attacked the problem  
16 head on. That's what this says.

17 MR. ROISMAN: Is the basis for that, regarding  
18 the management's possession of a positive attitude, is that  
19 from the interviews with the management people that were  
20 conducted by you and other SPRT?

21 MR. IPPOLITO: It is not only that but you also  
22 get this feeling from the interviews conducted. If you  
23 read the report that's what it tells you.

24 MR. ROISMAN: I'm trying to understand. I've  
25 read the report. I want you to tell me and I want you to

1 tell me straight up, is it everything that you saw there  
2 that made you reach that conclusion or is it the interviews  
3 that you had with the people?

4 MR. IPPOLITO: Everything we saw.

5 MR. ROISMAN: When you looked at a document and  
6 found it was in order, that reinforced your conclusion or  
7 helped create the conclusion that management possessed a  
8 positive attitude?

9 MR. IPPOLITO: Yes.

10 MR. ROISMAN: In the statement under the general  
11 category QA/QC, still in the executive summary on page 6,  
12 under strength, the first strength is the QA/QC training  
13 program is extensive and comprehensive. Was the review  
14 that was done by the SPRT of the QA/QC training program  
15 itself extensive and comprehensive?

16 MR. IPPOLITO: Within the context of the purpose,  
17 I would say it was, but within the context of total program,  
18 forever, the answer is no. It was just not enough time nor  
19 enough knowledge of allegations and whatever have you to  
20 make that finding.

21 MR. ROISMAN: Are you saying that what we  
22 probably should do and what you intended that should be  
23 done with the conclusion statements, wherever they appear  
24 in the report, is that they should all be qualified by the  
25 statement, to the extent of our look, this is our

1 conclusions. Not that we know that we looked enough to be  
2 able to make this as a definitive conclusion?

3 MR. IPPOLITO: Thank you for saying that. I  
4 have been trying to say that since we started telling you.  
5 That's the only purpose of this thing.

6 MR. ROISMAN: Did you ever, before you started  
7 your look, did you have some criteria that you used to  
8 decide how extensive your look would have to be in order to  
9 reach any conclusion about anything?

10 MR. IPPOLITO: No. You are describing this as  
11 though it were a rather sterile thing that has happened  
12 before. This was a one-of-a-kind type thing. It was a  
13 technique I used to determine, and I repeat again, what  
14 should I do with that plant? Where am I with that plant?  
15 Where are they with that plant? If the negatives were in  
16 my judgment and the judgment of Paul Bemis and the  
17 remainder of the team, if it brings that into question,  
18 that would have determined the course of action different,  
19 possibly, than what we did. We might have issued a show  
20 cause order at that time if they were negative. We're not  
21 sure. But clearly what this thing did, it gave me time to  
22 develop what I call the plan and to execute the plan.  
23 That's all this document does.

24 MR. ROISMAN: Is it fair to say that in that  
25 short look, you might very possibly have missed items which

1 if you had seen them would have dramatically altered your  
2 conclusions?

3 MR. IPPOLITO: I will agree to altered but not --  
4 I can't use the word dramatically because I know that the  
5 technical review team did find things in the document  
6 control area, I think, and in other areas that were more  
7 severe than what is described here. I'm saying, I think  
8 that there are areas of weakness that were discovered over  
9 and above this, and clearly, I was aware of this, that  
10 there was this potential.

11 MR. ROISMAN: To the extent that the technical  
12 review team looked at the same, either specific or general  
13 questions that this SPRT looked at, is it your opinion that  
14 reliance in trying to reach some conclusions about the  
15 plant should be placed on what the technical review team  
16 did rather than on what the SPRT did?

17 MR. IPPOLITO: I don't know what the technical  
18 review team did after I left the program. But clearly it  
19 was my intent that this was an input to the technical  
20 review team. They were given this report. They said,  
21 given this report and the other information you have, go  
22 pursue these areas. And I think that that's an input --  
23 this was one of their elements as well as a whole bunch of  
24 other inputs that they had to consider in their review  
25 process.



1 MR. ROISMAN: I'm not talking about the  
2 underlying data. As I understand it what the technical  
3 review team was supposed to do is to take all the data that  
4 the SPRT gathered and use that along with whatever data it  
5 gathered, and at sometime in the future reach some  
6 conclusions about QA/QC, drawings, what have you. I'm  
7 asking just the conclusions portion of the SPRT. From what  
8 you knew about the technical review team during the period  
9 that you were in charge of it, is it fair to say that with  
10 respect to any conclusion, whether it is positive or  
11 negative, that's contained in the SPRT, that the better  
12 basis and therefore the more reliable conclusion is the  
13 conclusion of the TRT rather than the conclusion of the  
14 SPRT?

15 MR. IPPOLITO: The answer is the technical  
16 review team conclusion has to be better. There was more  
17 information, more time, more in-depth examination of the  
18 area.

19 (Discussion off the record.)

20 MR. ROISMAN: Ms. Garde is going to have  
21 questions in more detail about the body of the report.

22 MR. IPPOLITO: I wish you luck.

23 MS. GARDE: Thank you. Can you go back to the  
24 page that we switched back to Mr. Roisman on, A, under  
25 management organization?

1 MR. ROISMAN: This is in the body of the report.

2 MS. GARDE: Now, on page 2, I read you a  
3 statement about the current positive management attitude.  
4 Do you see that? That's the first full paragraph.

5 MR. IPPOLITO: Yes.

6 MS. GARDE: Mr. Roisman proposed a similar  
7 statement in the executive summary and I want to ask a  
8 couple follow-up questions to that. When you say "the  
9 positive attitude appears to manifest itself in the  
10 attitudes of the workers, the training and its  
11 consciousness for quality," is this opinion based on the  
12 interview of the 21 QC inspectors?

13 MR. IPPOLITO: Billie, what each of these  
14 chapters attempts to -- it attempts to outline what they  
15 did and what the conclusions were. To that extent, it  
16 stands on itself.

17 MS. GARDE: Let me back up a little bit then.  
18 You didn't write this report.

19 MR. IPPOLITO: Correct.

20 MS. GARDE: Then Mr. Bemis wrote the whole  
21 report?

22 MR. IPPOLITO: He was -- my recollection -- he  
23 had the management of this part A and was responsible for  
24 integrating the total report.

25 MS. GARDE: Okay, and the rest of these sections --

1 MR. IPPOLITO: Are primarily --

2 MS. GARDE: -- from the inspectors that went  
3 with you.

4 MR. IPPOLITO: Each inspector wrote their input.

5 MS. GARDE: Okay. There's attached to this  
6 sanitized versions of the 21 interviews with QC inspectors.  
7 In discovery we received the unsanitized versions.

8 MR. IPPOLITO: You received all of them.

9 MS. GARDE: But that's all there is?

10 MR. IPPOLITO: No, no, no. If you read this  
11 report --

12 MS. GARDE: Okay, we have all of them.

13 MR. IPPOLITO: The ones in the report are those  
14 - with a problem to be further investigated. The others that  
15 were not a problem were not included.

16 MS. GARDE: We have in discovery all 21  
17 interviews.

18 MR. IPPOLITO: Yes.

19 MS. GARDE: The conclusion, the positive  
20 attitude in the attitudes of workers -- to the best of your  
21 recollection the only workers that your team people talked  
22 to were the 21 that were officially interviewed?

23 MR. IPPOLITO: No. Each inspector or person on  
24 the team talked to the crafts and the QC inspectors when  
25 they went to look at, say, a pipe hanger. They talked to

1 the people themselves. How are things going? Whatever  
2 have you. And I think if you -- my recollection is that  
3 they have indicated in there that each, I think, each of  
4 the groups that some of them do, things look pretty good.  
5 These guys seem to be happy with what they are doing.

6 MS. GARDE: To the extent that Mr. Hayes and  
7 Mr. Eisenhut talked to workers on the site, does this  
8 report, this statement include their opinions of what the  
9 workers said?

10 MR. IPPOLITO: No.

11 MS. GARDE: Did they ever share with you their  
12 opinions about what the attitudes of the workers were?  
13 This is not a trick question.

14 MR. IPPOLITO: I'm trying to think of when and  
15 how Mr. Hayes or Mr. Eisenhut would know. My understanding  
16 is that they were down at the site one time where they  
17 talked to people, just one time, and I happened to be at  
18 the site at the same time and I happened to be with them at  
19 the same time.

20 MS. GARDE: But this statement is not intended  
21 to reflect their opinions?

22 MR. IPPOLITO: That's right.

23 MS. GARDE: Okay, on the training, says, "positive  
24 attitude appears to manifest itself in attitudes, workers  
25 and the training." Is that part on the training, does that

1 come from the inspectors' work in reviewing QA/QC training?

2 MR. IPPOLITO: That's my understanding, yes.

3 MS. GARDE: The last of that, "and its  
4 consciousness for quality," how was that conclusion reached  
5 to the best of your understanding?

6 MR. IPPOLITO: I think it is the sum total of  
7 everything the person did.

8 MS. GARDE: What person?

9 MR. IPPOLITO: The person who wrote this section,  
10 Bemis.

11 MS. GARDE: Are you saying that that statement  
12 is Bemis' opinion?

13 MR. IPPOLITO: Where are you?

14 MS. GARDE: "Its consciousness for quality" --  
15 "its consciousness for quality." Is that a collective  
16 opinion of everybody on your team or is it only Mr. Bemis'  
17 opinion?

18 MR. IPPOLITO: That is a collection because  
19 Mr. Bemis did not talk to everybody. He got inputs from  
20 the various people on the team in this area.

21 MS. GARDE: On page 2, Number 3, project  
22 management meeting, this basically is a summary of a  
23 Saturday -- apparently Saturday morning project management  
24 meeting.

25 MR. IPPOLITO: Yes -- we were there, and they

1 said if you want to sit in, fine.

2 MS. GARDE: How many of you sat in on the  
3 meeting?

4 MR. IPPOLITO: I don't remember. I know Paul  
5 Bemis did. Who else, I don't know.

6 MS. GARDE: Were you at the meeting?

7 MR. IPPOLITO: No.

8 MS. GARDE: Was anyone else besides Mr. Bemis at  
9 the meeting, any of the other team people?

10 MR. IPPOLITO: I'm not sure.

11 MS. GARDE: Okay, on page 3, quality assurance,  
12 quality control, item number 1 gives a list of procedures  
13 that were reviewed by your team to determine whether or not,  
14 as I understand what you explained to Mr. Roisman, there  
15 was control of the nonconformance process, identification  
16 of nonconformance process. Was there any attempt made to  
17 look beyond NCRs to determine whether or not other  
18 documents were being used to log nonconforming conditions?

19 MR. IPPOLITO: Like IRs? I just don't remember.  
20 I don't remember that at the time we had knowledge of that  
21 problem. I'm not sure.

22 MS. GARDE: And you didn't look for that problem?

23 MR. IPPOLITO: I don't think it was known to me,  
24 and therefore if it was not, it probably was not known to  
25 this group at the time.



1 MS. GARDE: If you had an allegation -- you said  
2 you had about 300 allegations --

3 MR. IPPOLITO: Not at this time.

4 MS. GARDE: You hadn't looked at any allegations?

5 MR. IPPOLITO: No, my people were in Washington  
6 trying to come up with whatever that New Mexico one was.  
7 This was not with me. That is what they were doing at the  
8 time.

9 MS. GARDE: Knowledge that the Nuclear  
10 Regulatory Commission as an organization had was not  
11 necessarily transmitted to the team at all?

12 MR. IPPOLITO: That's correct.

13 MR. CHANDLER: If I could ask you to wait until  
14 the request is through so we have the question on the  
15 record and then the answer, rather than mid-way through the  
16 question, it might help.

17 MR. IPPOLITO: I will do that.

18 MS. GARDE: Which of the members were in charge  
19 of the quality assurance/quality control look?

20 MR. IPPOLITO: On page 3, executive summary,  
21 Paul Bemis, section chief. He had -- we tried to identify  
22 who was expert in what area.

23 MS. GARDE: Okay, I didn't understand that the  
24 in the executive summary, the people's names with their  
25 expertise necessarily would coordinate with who did what in

1 the bulk of the report.

2 MR. IPPOLITO: We tried. These were the  
3 specialists. We tried to use them in their specialty.

4 MS. GARDE: To the extent you remember, if you  
5 could tell me that, if it was Mr. Bemis, that's your  
6 understanding for QA/QC.

7 MR. IPPOLITO: That was Mr. Bemis. That I am  
8 sure of.

9 MS. GARDE: On QA/QC training, who was that?

10 MR. IPPOLITO: I would guess it is Bemis, yes,  
11 but, excuse me. I think there's a Lou Jackson. Louie  
12 Jackson I think was also involved in QA/QC, so I think  
13 between the two of them, they covered, I think, all of the  
14 areas in QA/QC. :

15 MS. GARDE: I'm going to skip to the end of the  
16 report now. On page 60, starting section I, formal  
17 interviews of the QA/QC personnel.

18 MR. IPPOLITO: Yes.

19 MS. GARDE: This section is a narrative, I  
20 assume, correct me if my assumption is wrong, a narrative  
21 of what was gleaned from the interviews conducted with  
22 everybody?

23 MR. IPPOLITO: That's my understanding.

24 MS. GARDE: Now, on page 62, there is an area in  
25 this narrative which goes into the inspectors being

1 questioned regarding intimidation, and the inspectors'  
2 ability to identify problems with no suppression in this  
3 area.

4 MR. IPPOLITO: What paragraph?

5 MS. GARDE: Paragraph 3 talks about inspectors  
6 questioned as to their ability to identify problems. Do  
7 you see that?

8 MR. IPPOLITO: Okay.

9 MS. GARDE: And then next paragraph goes into  
10 feedback, next paragraph goes into communications were  
11 improving, and the assignment of a new site QA manager was  
12 a positive step in improving communications, and the next  
13 paragraph on, intimidation by craft. Now, your statement  
14 to Mr. Roisman about how wrongdoing issues and how  
15 harassment and intimidation was handled raises at least in  
16 my mind some questions about who was pursuing the  
17 harassment and intimidation questions with these inspectors  
18 during these interviews. Was OI present at these  
19 interviews?

20 MR. IPPOLITO: The purpose of this exercise was  
21 to determine whether the things that I had been hearing as  
22 well as -- again, the basic objective, does management have  
23 control over this thing, what are the problems. One of the  
24 problems that had been identified is that there had been  
25 intimidation. So one of the things we did is that knowing

1 that this was a contention, if you will, asked the people,  
2 do you have problems? Again, if they had said yes, we  
3 would pursue the problem. The technical review team would  
4 meet with OI and pursue the problem.

5 It was just factfinding. Where are we? What  
6 should I do, how much should I do? That was the  
7 questioning. Questioning these people that we did  
8 indicated that they were not intimidated.

9 MS. GARDE: How were these people selected?

10 MR. IPPOLITO: I believe it tells you.

11 MS. GARDE: Says random but --

12 MR. IPPOLITO: There's one exception.

13 MS. GARDE: With the T-shirt.

14 MR. IPPOLITO: That's right.

15 MS. GARDE: When you say randomly selected, you  
16 don't mean statistically correct random sampling.

17 MR. IPPOLITO: Heavens, no.

18 MS. GARDE: Then how was your random sampling  
19 chosen?

20 MR. IPPOLITO: Oh, gee -- what the reviewer or  
21 inspector tried to do was get a few people from the  
22 different areas, and coupled with the inputs from the other  
23 team people when they wanted to talk to individuals, and  
24 you know, that was it, plus the instructions that they  
25 should interview all of the T-shirt people on site.

1 MS. GARDE: Okay, on page 63, second paragraph,  
2 "Interviews of management indicated they were very  
3 supportive of insectors and sensitive to inspector concerns."  
4 Who are you talking about in that?

5 MR. IPPOLITO: Whoever the listing is that you  
6 have. They should be there. I'm not trying to be -- I  
7 just don't remember. I was not there. I don't remember.

8 MS. GARDE: Okay, in the second to the last  
9 paragraph, small letter b, "In addition to formal  
10 interviews, numerous informal discussions were held between  
11 the NRC team personnel and site managers, craft, inspectors,  
12 engineers and office personnel." Are those written up  
13 anywhere?

14 : MR. IPPOLITO: No.

15 MS. GARDE: So to the best of your recollection,  
16 there's no summaries of --

17 MR. IPPOLITO: Excuse me. I don't believe there  
18 are. In other words, what you received do not contain  
19 these type of things. Whether or not there are notes or  
20 whatever, I have no idea.

21 MS. GARDE: Okay. Just a minute.

22 (Discussion off the record.)

23 MR. ROISMAN: A last question for you on the  
24 SPRT. Is it fair to say that the purpose of the SPRT was  
25 to make an evaluation of the current status of management

1 control over the plant rather than to attempt to determine  
2 whether and the extent to which it may not have been in  
3 control in the past?

4 MR. IPPOLITO: Yes.

5 MR. ROISMAN: Following the SPRT work, I assume  
6 you began your work on the development of what eventually  
7 became the technical review team plan that we discussed  
8 earlier this morning?

9 MR. IPPOLITO: Yes.

10 MR. ROISMAN: After you had developed that plan,  
11 its implementation until you were no longer head of the  
12 technical review team was under your control and  
13 supervision; is that correct?

14 MR. IPPOLITO: Yes.

15 MR. ROISMAN: I want to ask you some questions  
16 about the process that you were using for or having your  
17 people use for the purpose of doing the evaluation. Let's  
18 take a specific, if you want, and you can give me an  
19 example of one in particular, a technical allegation that  
20 you had, and sort of walk me through. How did, from the  
21 moment that you knew the allegation, how, as you understood  
22 it, was it to function, how was the technical review team  
23 supposed to look at that?

24 MR. IPPOLITO: Let me step back one step before  
25 that. Since we inherited so to speak, the team inherited a



1 group of allegations and technical issues, one had to  
2 examine them, try to understand what they are saying and  
3 then group them in some fashion to make sure that things of  
4 like subject are in the same area or in the same groupings,  
5 so that -- and from that effort, it looked like we can set  
6 all of the allegations into five groupings plus some  
7 miscellaneous.

8 Now that we had done that, and we had  
9 established a shorthand, if you will, for each of these  
10 categories, each allegation that came in subsequent to that  
11 would be examined, was it a QA, electrical, whatever have  
12 you. What we tried to do is we tried to state the  
13 allegation. We would then give that to -- we would assign  
14 it to a group and that would go to the group leader.

15 MR. ROISMAN: When you tried to state the  
16 allegation, what did you use to determine exactly what that  
17 allegation was?

18 MR. IPPOLITO: As you know there are a number of  
19 ways that we get allegations. Some make statements to the  
20 NRC and in the statement you will find, if you carefully  
21 read it, you might find, although not specifically stated  
22 allegation, you will find something that says something is  
23 wrong here. We would go through that document and extract  
24 from that document what we believe to be some of the  
25 problems that the person is trying to identify.

1 MR. ROISMAN: Did you go back to the alleged at  
2 that point to make sure that at that point you had the  
3 allegation clear?

4 MR. IPPOLITO: Some, yes; others, no. It  
5 depended, I think, considerably on what we had. In other  
6 words, some of the allegeders gave real detailed statements  
7 that were transcribed --

8 MR. WESSMAN: Let me correct something there. I  
9 think you are discussing the period in which we were still  
10 identifying and sorting the initial list of allegations,  
11 and at that time, we did not go back and talk with the  
12 allegeders. Once we had the technical review team assembled  
13 on site, we made a decision as to which allegations  
14 required further pursuit with the allegeder to be sure we  
15 understood what the issue was.

16 MR. ROISMAN: So your first cut at trying to  
17 develop what the allegations were was you took whatever  
18 existed and made an effort to determine what the allegation  
19 was from that, and then once that list was put together,  
20 decisions were made by, in effect, by the technical review  
21 team team leaders, I assume, should we ask this guy to be  
22 clearer on this or --

23 MR. IPPOLITO: Excuse me, they were instructed  
24 that if they based upon the information that they had, not  
25 only the brief statement -- we kept an essential file, the

1 total statements, so that the particular reviewer could  
2 come and read the total statement to make sure that we, as  
3 managers, you know, properly took and placed it in its  
4 proper context so they could read the total paragraph or  
5 page or chapter or total statement to make sure that we had  
6 characterized that allegation correctly. If even after  
7 doing that, they had a problem, they should come to my  
8 staff, and we would attempt in some way or other, either  
9 meet, call or try to clear up the understanding of this.

10 MR. ROISMAN: You get your list of allegations,  
11 those are put together, categorized, categories are then  
12 assigned to people who have responsibility?

13 MR. IPPOLITO: Correct.

14 MR. ROISMAN: Let's take one of those  
15 allegations and sort of walk me through in general the  
16 process that was used to evaluate the validity of the  
17 allegation.

18 MR. IPPOLITO: I think that we issued  
19 instructions to the technical review team. They were  
20 dated --

21 MR. WESSMAN: June 5, 1984, technical review  
22 team guidance.

23 MR. IPPOLITO: Within it are detailed  
24 instructions of what they should do. But not only that,  
25 the total team was briefed by both Darrell Eisenhut and Ben

1 Hayes about -- and I think these are the instructions that  
2 come out loud and clear, is that each of the reviewers  
3 should go behind the paper. Another expression used, go  
4 kick the tires.

5 This was the modus that these people were  
6 supposed to use. Don't go look at that one NCR. Go look,  
7 pick a random sample, as well as that one that's identified  
8 by the allegor. Get a random sample and then go beyond it.  
9 Go make sure. Go interview people, talk to people, if they  
10 are still around. And that type of review process is what  
11 they used. I think this document here tries to tell you  
12 that.

13 . MR. NOONAN: When you used the word random,  
14 that's not statistical random. That's just random, pick  
15 things, put it together. Thank you.

16 MR. ROISMAN: Lawyers' random.

17 MR. NOONAN: Right.

18 MR. ROISMAN: When the allegation was assigned  
19 to the particular person to look at, if when they looked at  
20 that allegation they concluded that they didn't fully  
21 understand it and they went to talk to the allegor to find  
22 out what it meant, what if they didn't find the allegor  
23 right away? What would they do to find that allegor?

24 MR. IPPOLITO: They themselves would not look at  
25 the allegor. All they knew is that this was allegor X.

1 They would come to either Annette or Dick Wessman or R.C.  
2 Tank, who we had a master list, so to speak, and we would  
3 attempt, one of the three would attempt to locate that  
4 person. We have taken whatever action we can, even sending  
5 people on travel to other parts of the country once we  
6 located the person to try to do this.

7 MR. ROISMAN: I guess there are several places,  
8 as you probably know, where it indicates the alleged could  
9 not be located.

10 MR. IPPOLITO: We tried the best we can with the  
11 data we had.

12 MS. VIETTI-COOK: We went to the personnel files  
13 on site to try to get their address, phone number, sent  
14 letters, et cetera. Dick might remember some other things  
15 we did.

16 MR. NOONAN: Let's do this: On allegation, when  
17 you get to me I can maybe explain what we did subsequent to  
18 this time, if that's not too late for you.

19 MR. ROISMAN: No, but one of the questions I'll  
20 ask you is the extent to which the work already done was  
21 treated by you as done, and if what you tell me is  
22 everything that Tom did, I reevaluated and redid and  
23 therefore, what he did doesn't matter, then I can stop  
24 asking questions about this, but my understanding is some  
25 of his work was relied upon by you, and continuation of his

1 work might have been done differently by you than by him.

2 MS. VIETTI-COOK: If we didn't contact him  
3 before we looked at the allegation, we always tried to  
4 contact him in a feedback interview. We tried to contact  
5 everybody in a feedback interview even if we didn't contact  
6 him initially because we felt we understood the allegation.

7 MR. ROISMAN: Did you work through, when you  
8 were having difficulty finding people, did you work through  
9 Citizens Association for Sound Energy or through Ms. Garde  
10 to locate people?

11 MS. VIETTI-COOK: Yes.

12 MR. IPPOLITO: I personally called Ms. Garde for  
13 one or two names in particular, and to Juanita Ellis for  
14 one or two as well. In fact, Juanita Ellis found one or  
15 two, they were visiting her at the time and we were lucky  
16 enough to find that individual.

17 MR. WESSMAN: We did talk with CASE several  
18 times, and I remember on allegation identities that may  
19 have been specified by case, we said we need to get a  
20 particular individual that Citizens Association for Sound  
21 Energy identified as allegeders X or Z, and in some cases  
22 they could help or in some cases they could not or would  
23 not put us in contact with that allegeder.

24 We did things like attempting to go to last  
25 known address, last known telephone number, if relatives



1 were identified in personnel records or whatever, we sought  
2 to contact them. We made what we felt was the best  
3 possible effort. If all telephone efforts failed we would  
4 send a registered letter to the last known address in an  
5 effort to have it forwarded, but I think we made a  
6 reasonable effort to locate the individuals insofar as we  
7 could.

8 MR. ROISMAN: Do have you any sense of what  
9 percentage of the allegeders you were unable to reach?

10 MR. IPPOLITO: I think Vince could answer that.  
11 I think the final box score on that was completed under his  
12 auspices.

13 MR. NOONAN: I'll get the number for you.

14 MR. IPPOLITO: I would think it is a majority,  
15 right, Richard?

16 MR. WESSMAN: At the end of the effort, my  
17 recollection is a total of nearly 70 allegeders to date, I  
18 may be slightly off in the number, my recollection is at  
19 this time we probably have contacted in excess of 50 of  
20 them. Many of those are only in the close-out phase  
21 because during the on-site phase, some of those, based upon  
22 the statements and information we had, we determined we  
23 didn't need to talk to them during the on-site portion as  
24 we already discussed.

25 MR. NOONAN: I have the numbers available.

1 MR. ROISMAN: Let's go back to the on-site  
2 portion. How did your people proceed with the  
3 investigation of an allegation on site? Let's assume that  
4 they had an allegation that seemed on the surface to be  
5 sufficiently clear, they didn't need to talk to the alleged  
6 at that point, they went to the site to look at the thing  
7 and found that didn't confirm the allegation. There didn't  
8 appear to be anything there which was consistent with the  
9 statement by the alleged. What was the next step to pursue,  
10 if any, with respect to what the on-site facts were?

11 MR. IPPOLITO: I don't know what I could add  
12 over what I said earlier. If we had an allegation in a  
13 particular area, one obviously goes and looks to see what  
14 are the requirements under which that thing is to be built,  
15 designed or whatever have you, understanding the basic  
16 requirements, and doing whatever it takes to determine  
17 whether or not that device or system or that paperwork is  
18 in fact conforming to those requirements.

19 MR. ROISMAN: Let's say that you have an  
20 allegation that NCR 465 was improperly dispositioned by the  
21 supervisor, use as is, without any engineering evaluation,  
22 although you needed an engineering evaluation to decide,  
23 use as is, and your inspector -- that's a very clear one,  
24 you presumably wouldn't have to go to the alleged -- you go  
25 to the NCR control, pull out the 465, take a look and find

1 the signature of an engineer on there, indicating that the  
2 "use as is" disposition had an engineer's approval. What  
3 would you do in that case?

4 MR. IPPOLITO: I'm hoping he would have started  
5 with an understanding of the NCR system and what it should  
6 be. Given that, then he would then get a copy of the NCR  
7 and understand it, go and examine the system. Then I  
8 believe he would interview the people involved, if they are  
9 available, and try to find out what they can, you know.  
10 Why was this signed off by the engineer. Go talk to the  
11 engineer. What is the basis? There's nothing apparent  
12 here that justifies "use as is." What is the rationale  
13 behind it? There's got to be something written that says,  
14 here's why I'm saying what I'm saying.

15 MR. ROISMAN: My hypothetical was that the NCR  
16 was dispositioned "use as is" without ever going to the  
17 engineer. Your person finds that it is signed off by an  
18 engineer. Let's assume there's a statement on there that  
19 explains why the engineer thinks "use as is" is okay. Your  
20 person has a piece of paper that appears to be in direct  
21 conflict with the statement that the allegor has made.

22 One possibility is that the allegor has the  
23 wrong number. Another possibility is that the allegor has  
24 the right number and was incorrect, and the third is that  
25 the NCR was altered subsequent to the time that the allegor

1 became aware of it and that the company has in effect  
2 forged the document by adding a post-disposition engineering  
3 evaluation on it with the engineer's concurrence. How did  
4 your person investigate to determine which of those  
5 possibilities was the correct one?

6 MR. IPPOLITO: I'm not sure which of the many  
7 various examples, what he would do, but what his  
8 instructions were is to look behind the paper. Don't only  
9 take that one thing. If we can, talk to people, talk to  
10 the allegor, talk to the people on site. Take a random  
11 sample in and around that area because if that one seems to  
12 be a problem, maybe there are others in that general area  
13 at that general time frame. These are the techniques that  
14 a person would use but he would try to go beyond it, and  
15 including interviews.

16 MR. WESSMAN: We also went out and looked  
17 physically at the components and made an engineering  
18 judgment as to the adequacy of those engineering components  
19 that are the subject of the NCR.

20 MR. SHAO: It happened quite often that the NCR  
21 is not properly closed and my people started looking and  
22 found out it was properly closed. In that case we went  
23 back to the allegor. In many cases the allegor says, oh,  
24 maybe I left. He left the site maybe a year or two ago.  
25 He didn't know that it was properly followed up and in many

1 cases the alleged accepted our finding.

2 MR. ROISMAN: Was that done during the time that  
3 the people were still on site or after the site visit part  
4 of the TRT was done?

5 MR. SHAO: In many cases it was done on-site but  
6 some cases it was done off-site. Happened many times.

7 MS. VIETTI-COOK: Or there was a lack of  
8 communication between the QC inspector and the engineer  
9 that wrote "use as is." They didn't bother to tell the QC  
10 inspector and I don't know that they had to, but he wanted  
11 to know what the basis for that "use as is" was, and it was  
12 not communicated to him, but eventually we communicated  
13 that to him and at that point he was satisfied once he  
14 understood the basis for "use as is."

15 MR. ROISMAN: All right, let's go on with the  
16 example. Let's assume that your inspector evaluates the  
17 allegation and finds that it was meritorious; that is, the  
18 alleged said if you look at this thing, you will find a  
19 defect, and your man goes, and he looks, and he says, there  
20 is a defect. Now, at that point, as I understood from what  
21 you talked about earlier, he would not try to find, if you  
22 will, the root cause, the why of that. Is that correct?  
23 He wouldn't try to find out why did this defect show up  
24 here at a time when it should have been picked up six  
25 months or a year, whatever it is, a year ago.



1 MR. IPPOLITO: That's correct.

2 MR. ROISMAN: But that he would try to see what  
3 the generic implications of that were; is that correct?

4 MR. IPPOLITO: Could this problem be in other  
5 areas?

6 MR. ROISMAN: How would he know which other  
7 areas to look at without knowing what caused the first one?  
8 Let's assume again that it is an NCR that was not properly  
9 dispositioned.

10 MR. IPPOLITO: There are NCRs in the electrical  
11 area, in the mechanical area, there are NCRs in the system  
12 area --

13 --- MR. CALVO: I think we're missing a very  
14 important step. You jumped from the point of the NCR and  
15 found something wrong with it. The next step is you must  
16 establish the safety significance of the find. If it is  
17 safety significant you proceed to the implications, but if  
18 you find no safety significance you can very well take care  
19 of it at that time.

20 MR. ROISMAN: Let me ask about that then. I  
21 appreciate you telling me at what point that step comes in.  
22 If you don't know what caused the failure to detect, how do  
23 you know whether or not, how did you know whether or not it  
24 had safety significance?

25 MR. CALVO: If I may, if I know the NCR and I



1 know the component of the system that the NCR was  
2 addressing, then by knowing the component and the role that  
3 the component plays in the plant safety, then I can assess  
4 the safety significance.

5 MR. ROISMAN: Well, that's right, but --

6 MR. CALVO: For instance, if the NCR has to do  
7 with emergency lighting or a particular panel, and because  
8 it has reference to that particular component and the  
9 assessment is made, there's no reason to pursue it because  
10 there was no safety significance. We acknowledged the fact  
11 that this was an isolated case, and we like to know whether  
12 this problem identified -- presumably the QC inspector  
13 thought it was safety-related significance. We maybe  
14 extended our review to include other NCRs that fall within  
15 the same classification, "use as is." We did that many  
16 times in many cases.

17 MR. ROISMAN: My concern -- and maybe I don't  
18 fully understand the line between safety-significant and  
19 defect -- but I take it that there are procedures for doing  
20 certain things at the plant, and one could, in retrospect,  
21 in getting down with a microscope, take a look and decide  
22 while that one thing was supposed to have been done when we  
23 really look at it now in great detail, it wasn't a  
24 safety-important thing that it be done. Am I correct so  
25 far?

1 MR. CALVO: That's correct.

2 MR. ROISMAN: How do you know if you don't find  
3 out why did this thing which the QC inspector, let's say,  
4 mistakenly believed was safety significant, why did this  
5 thing happen? How can you know whether or not it had an  
6 implication for safety significant matters even though it  
7 is in itself not safety significant?

8 MR. SHAO: Let me give an example. Say we pour  
9 concrete. The purpose of concrete is to achieve a final  
10 ultimate strength of on pier site. But in order to achieve  
11 the ultimate strength you pour concrete, make tests,  
12 whatever is right. In the process there may be a lot of  
13 violations here and there. Maybe the water/cement ratio  
14 isn't right." Maybe this inspector didn't look carefully,  
15 but the bottom line is if the concrete had the right  
16 strength that's what really counts, even though they may  
17 have had some safety violations. The final question is did  
18 the concrete have the right strength, so even though you  
19 may have certain violations, they really don't have safety  
20 significance if the final concrete has the right strength.

21 MR. ROISMAN: I can understand concrete, at  
22 least a little bit of it. If the reason that the proper  
23 mixture between the concrete and the water was not -- that  
24 there was an improper mixture between the concrete and the  
25 water and that was not detected, if the reason was that the

1 concrete inspectors had been directed by their bosses to  
2 forget about that, they have been told, look, we're pouring  
3 concrete, we have only five days to get this poured, I  
4 don't want a lot of nit-picking about the water/concrete  
5 mixture. When we're done we'll make sure it is 4000 psi,  
6 So forget about it.

7 MR. SHAO: It is not good practice.

8 MR. ROISMAN: I'm glad we agree on that. I take  
9 it also that the presence of that attitude by the  
10 supervisor that could have caused somebody to miss  
11 something in another area where you ended up with a  
12 deficient component -- how, without finding out the  
13 underlying reason for why the defect was not reported, how  
14 will you know whether or not you have the safety-related  
15 significance?

16 MR. SHAO: Very good question. We say now, you  
17 have all kinds of violations. Maybe in this area you're  
18 lucky, no problem in concrete. But maybe the same crew may  
19 work somewhere else and somewhere else may have problems,  
20 so what we do is we say for this particular issue, number  
21 16, whatever it is, we say no safety significance because  
22 we look at the final stress, but we put in appendix P,  
23 applicant make sure this doesn't happen somewhere else. It  
24 may have safety problems.

25 MR. ROISMAN: So not only -- well, let's go back.

1 Then, really, during the SSER 7, 8, 9, 10 piece of the  
2 technical review team, the absence of knowing the answer to  
3 the question why makes it not possible to know with  
4 certainty that there really are not other areas related --  
5 other problems in that same area that were never detected  
6 because of an underlying root cause which you are  
7 transferring to SSER 11's responsibility; is that right?

8 MR. SHAO: We know something is wrong there. We  
9 want applicant to address why the something wrong didn't  
10 affect other places.

11 MR. ROISMAN: You are saying now that the  
12 philosophy that Mr. Ippolito talked about earlier this  
13 morning, which is this responsibility is the applicant's,  
14 continued right on through this TRT.

15 MR. SHAO: Applicant have to tell us why, if  
16 they have a violation here, if it happens somewhere else,  
17 why is it okay.

18 MR. ROISMAN: In your judgment, is the first  
19 step, if the process were to have been carried forward by  
20 the staff as opposed to being transferred to the applicant,  
21 is the first step after you determine that there was a  
22 deficiency in the reporting system, although admittedly it  
23 turned out not to have safety significance, the first step  
24 to carrying out the evaluations we have been talking about  
25 is to determine why?

1 MR. SHAO: Right.

2 MR. ROISMAN: Then having defined why, you can  
3 then reinvestigate as to whatever why tells you to do, and  
4 I take it it would be very difficult in your judgment to do  
5 it in the reverse order, which is to deal with the problem  
6 without ever finding the why and then hold the answer to  
7 the question why until a year after you completed  
8 correcting the known problems.

9 MR. CALVO: I missed that.

10 MR. ROISMAN: Let's stick with the concrete  
11 example. You know when you are through that this  
12 particular pour, this particular concrete did not produce  
13 an inadequate concrete strength, but you know that it was  
14 not because of compliance with procedures, it was in spite  
15 of failure to comply with the procedures. You've decided  
16 that part of the responsibility of the technical review  
17 team will not be to try to find out why didn't you comply  
18 with the procedures. That responsibility will be left  
19 eventually to the applicant to find out why didn't they  
20 comply with procedures.

21 MR. SHAO: It is our job to let applicant know  
22 we find something wrong there, and they should give us an  
23 answer why they did it and maybe it happened somewhere else  
24 or not.

25 MR. ROISMAN: But if the applicant's approach is



1 to say we will never answer the question why for anything  
2 we determine does not have safety significance, then you'll  
3 never get the answer to your question; is that correct?

4 MR. SHAO: No, applicant is supposed to look at  
5 these issues in generic sense, and they have to decide  
6 whether there is safety significance in other plant or not,  
7 not limited to area.

8 MR. ROISMAN: They can't do that until they know  
9 why, can they?

10 MR. SHAO: They have to first, this happened  
11 here, let's say in the auxiliary building. They have to  
12 decide whether it happened in other places and evaluate  
13 accordingly.

14 MR. ROISMAN: Before they even decide where to  
15 look and how much of the other concrete to look at, don't  
16 they have to first find out why didn't procedures get  
17 followed on this one pour?

18 MR. SHAO: I think they should.

19 MR. ROISMAN: That was my question. Before you  
20 can decide whether we should look only at the pours in the  
21 auxiliary building or whether we should look only at pours  
22 that took place only in the month of March, you have to  
23 know the why that this pour had the improper procedures.

24 MR. SHAO: I agree you have to look at why and  
25 if the problem is localized or is not localized, what



1       happened to one guy or maybe 10 guys.

2               MR. IPPOLITO: The breakdown in this control, if  
3       you look at the instructions that the people, my technical  
4       review team people were given and look at the  
5       organizational structure, there's a dotted line that goes  
6       from every group leader to Mr. QA/QC. When one finds a  
7       technical problem and confirms it and the problem happens  
8       to be no one is watching, whatever example you used --  
9       every morning I met with my group leaders and they were  
10      told every morning that they have to be cognizant of the  
11      fact that when they look at a technical area, it might  
12      identify weaknesses in the control, the quality control and  
13      quality assurance area. They are to make sure that dotted  
14      line -- that the QA/QC knows of it. So in other words, if  
15      there's a breakdown in the way they control whatever it was,  
16      the water or what have you, then that control procedure  
17      should have been identified to our QA/QC people as part of  
18      looking at all of the problems from the various groups.

19             MR. SHAO: And it was identified in QA/QC.

20             MR. IPPOLITO: Right.

21             MR. ROISMAN: The process of the movement of  
22      these issues from the technical people looking at specific  
23      hardware problems in QA/QC, was it the technical people who  
24      referred it to QA/QC or was it QA/QC that reviewed the  
25      findings and work of all of the technical ones and decided

1 which ones to look at and not both?

2 MR. IPPOLITO: We prefer the former, not the  
3 latter.

4 MR. NOONAN: It was a combination of both, a  
5 combination of both.

6 MR. SHAO: The table, appendix P was prepared by  
7 the QA and the engineering people together.

8 MR. ROISMAN: Am I correct -- this may be for  
9 both Mr. Ippolito and Mr. Noonan -- am I correct that after  
10 your initial site visits which ended around September, that  
11 the volume of people available --

12 MR. IPPOLITO: I'm sorry, October 12.

13 MR. ROISMAN: Thank you. That the volume of  
14 people available and the number of site visits that could  
15 be made subsequent to that time was significantly reduced  
16 over what could be done prior to that time, that you had  
17 more resources to go do site visits?

18 MR. NOONAN: Not correct.

19 MR. ROISMAN: You had the same amount of  
20 capability or more?

21 MR. NOONAN: Same or more.

22 Let me go back to the why. The whys are  
23 important, and I don't deny that, but it is possible in the  
24 future the why might not be important. The applicant could  
25 come to us and say, here's what we think is why but it

1 doesn't make that much difference, and we might agree with  
2 that. I don't want to lead you down the path that we'll  
3 require him to go back and decide why for every specific  
4 item that we identify. There might be some reason that we  
5 would accept it is not important to look at the why, and  
6 when I face that I'll make that decision. Right at this  
7 point this time I want to leave that open.

8 MR. ROISMAN: Other than them coming back and  
9 saying we're going to assume that the why is plant-wide and  
10 address it as a plant-wide failure, what other ways can you  
11 imagine that the why might be irrelevant.

12 MR. NOONAN: Mr. Shao's situation might have  
13 been limited to one thing. If that concrete has the right  
14 strength yet, that group of people maybe did do things not  
15 quite according to procedure, that why might not be as  
16 important other than for that particular element. They  
17 didn't follow the procedure but we know the hardware is  
18 okay. The why is not as important as if those same group  
19 of people were used in other parts of the plant. That's  
20 kind of some logic. I can see a potential where a guy  
21 could come back and tell us that.

22 MR. ROISMAN: But in the context of  
23 Mr. Ippolito's SPRT, look where he was looking at the  
24 generic question of management control, how would the fact --  
25 unless you are talking about somebody who literally had no

1 connection to the rest of management on the site, which of  
2 course is an impossibility of appendix B being complied  
3 with -- how could it not matter?

4 Let's say that it was 10 people, they had their  
5 own supervisor, own QA/QC people and worked only on the  
6 auxiliary building, and the applicant comes back and says,  
7 we've checked the concrete strength for everything in the  
8 auxiliary building and it all passed muster. We did not  
9 find out why. In a number of pours we didn't look at the  
10 stuff but it doesn't matter because we know they only  
11 worked on one building. Why is it not still important to  
12 know, was the reason we didn't look at those whether they  
13 themselves had a flaw or whether it was because they were  
14 not properly instructed by the supervisors for concrete on  
15 the plant, or the supervisors for QA/QC on the plant or  
16 something like that?

17 MR. CHANDLER: I think we're veering off course  
18 here somewhat and straying into what Staff may look to in  
19 the future in terms of requirements for activities we will  
20 be looking at, in terms of get well programs, SPRTs,  
21 whatever, rather than the retrospective of what the TRT did  
22 and how it did it, and why it did what it did as documented  
23 in the various SERs, and rather than go into speculation as  
24 to what the Staff will be looking for and why, if we could  
25 maybe keep our focus back on the point.

1 MR. ROISMAN: Mr. Chandler, I looked at that  
2 because Mr. Noonan raised it. I also looked at it because  
3 I thought that Mr. Shao's sense of confidence in the work  
4 done in his area was, and in Ippolito's confidence in his  
5 people was in part based on a conviction that some day,  
6 somebody would answer the question why, and therefore,  
7 remove the last element of uncertainty that may have  
8 existed.

9 I don't think it is irrelevant, looking at the  
10 past, to know whether everybody who did this thought that  
11 was going to happen. And I thought it was useful, I'm not  
12 getting into any detail with Mr. Noonan, I wanted to  
13 understand what the scope of that statement was because all  
14 of the people here who passed the ball first to  
15 Mr. Livermore's group and later to the applicant may find  
16 it relevant to know whether the why will ever be answered.

17 MR. CHANDLER: I haven't raised any concerns up  
18 to this point. Unfortunately, in what the interchange  
19 indicates now is that we're into a realm of speculation as  
20 to future activities that likely go, I think, beyond the  
21 realm of technical review team and thoughts and intentions  
22 of that particular program. That's why I raise that right  
23 now.

24 MR. NOONAN: We are going to look at the whys.  
25 We told the utilities to look at those. I don't want you

1 to think there might not be a case where I would say, I  
2 won't look at the why. There might.

3 MS. GARDE: Mr. Ippolito, let me take you back  
4 to May 1984. After you had written the plan, it was  
5 approved, according to the cover sheet, by Mr. DeYoung,  
6 Mr. Denton and Mr. Collins on June 5, 1984, and about a  
7 week later you sent it to the board via board notification.  
8 Was there any modification to the plan that you initially  
9 wrote up? Is this what you initially wrote and sent  
10 Mr. Denton for approval?

11 MR. IPPOLITO: Yes. My recollection is there's  
12 one revision; is that correct?

13 MR. WESSMAN: We did a revision on July 1 of  
14 1984. My recollection was we changed the schedule, one of  
15 those enclosures slightly. I don't think we did any real  
16 changes in the text of the document.

17 MS. GARDE: This was after it was approved, not  
18 before?

19 MR. WESSMAN: It was revised after it was  
20 approved and all those who approved it were given a copy or  
21 else participated in the decision to revise. I don't  
22 recall the exact sequence of events.

23 MS. GARDE: Did the plan as it is written here,  
24 and I've read this, but did Mr. DeYoung, Mr. Denton and  
25 Mr. Collins all concur in the objective, to put the



1 objective of this plan, which was to put all the licensing  
2 issues to bed, if your looks put all the allegations to bed?  
3 Was that the objective of this project you proposed?

4 MR. IPPOLITO: What this plan attempts to do is  
5 to take and integrate the responsibilities in all of the  
6 areas. They are, by signing that, agreeing to a number of  
7 things as stated in the plan. One, yes, they recognize I  
8 am going to orchestrate this effort. Secondly, it asks for  
9 people, and that people are committed to this effort for at  
10 least the period of time that I estimated initially there,  
11 and whatever I changed from that point on. That's what  
12 they were concurring in. They recognized the existence of  
13 this project, directorship, if you will, and their  
14 agreement to support it as stated. That's what they were  
15 concurring in.

16 MS. GARDE: Now when you started pulling  
17 together the individuals to take down to Comanche Peak, you  
18 pulled together a team of around 50 individuals more or  
19 less?

20 MR. IPPOLITO: Yes.

21 MS. GARDE: And you arrived, if I recall this  
22 correctly, around the first part of July of '84.

23 MR. IPPOLITO: July 9 -- July 8.

24 MS. GARDE: Now, from then through the rest of  
25 the summer, would you say that the field work done during

1 that time period was -- Vince, you may need to help answer  
2 this, 50 percent of the field work done going to the SSERs?  
3 What percentage?

4 MR. IPPOLITO: If not all, a very high  
5 percentage of all that was done. I left the project about  
6 October, somewhere mid-October. My understanding is that  
7 the last group, which was the QA/QC, was pretty much off  
8 site at the time. He may have gone back once or twice for  
9 clean up, but most of the site work was done.

10 MR. NOONAN: I would say most of the site work  
11 at that point in time was done, because when I came on  
12 board I talked to the group leaders and asked if they  
13 needed to go back and most of the answers were no, with a  
14 few exceptions I think.

15 MS. GARDE: I want to focus on the area of your  
16 work which responded to allegations. When this program  
17 plan was written up it was addressing about 400 allegations,  
18 I think. The number of allegations grew throughout your  
19 field work; isn't that correct?

20 MR. IPPOLITO: Yes, and I think that when I left  
21 it got up to somewhere in the 600s, somewhere in that  
22 neighborhood.

23 MS. GARDE: And since that time period,  
24 Mr. Noonan, if I'm correct, it has grown again.

25 MR. NOONAN: Last count it was in the range of

1 around 900, although when I came on board it was at about  
2 600. We asked the Staff to go back and recount. The  
3 number changed pretty rapidly. Some of them were broken so  
4 what might have counted as one allegation was now counted  
5 at two. It is around 900, in that ball park right now.

6 MS. GARDE: Where new allegations were  
7 identified, either in old documents or as you were doing  
8 your work, was the field work and the plan to resolve those  
9 allegations developed essentially on the spot? Did you  
10 during your visit say, this is how we're going to deal with  
11 these plans -- excuse me, these allegations?

12 MR. IPPOLITO: I guess --

13 MS. GARDE: Let me back up. When you had an  
14 allegation, there was an allegation review sheet prepared;  
15 is that correct?

16 MR. IPPOLITO: For the new ones, yes. This  
17 document that I'm looking at here is --

18 MS. GARDE: What is it?

19 MR. IPPOLITO: A technical review team guidance,  
20 and I think it is something that has been published. As  
21 part of that there was a sheet to be filled out for new  
22 allegations and tells you, this document tells you what to  
23 do with them. They are fed into the system, and they are  
24 given to the appropriate team leader.

25 MS. GARDE: Okay, Mr. Chandler, we don't have

1 that document. That's one of the ones the FOIA office has  
2 not yet released and that would be real helpful and would  
3 have been in preparing for this meeting.

4 MR. CHANDLER: I will take a look and see what  
5 the status of that is.

6 MS. GARDE: If it would be possible for us to  
7 look at it over lunch, that would help us along.

8 MS. GARDE: My understanding is that an  
9 allegation review sheet was filled out?

10 MR. IPPOLITO: Yes.

11 MS. GARDE: As new allegations were identified,  
12 you had the 400 when you went down and the number increased.  
13 Was the allegation plan, how to deal with the allegation  
14 developed while you were there on the site?

15 MR. IPPOLITO: The difficulty I'm having with  
16 trying to answer your question is that your question seems  
17 to say that there's one single theme, you know, in the  
18 allegations. The QA/QC, there could be many, many areas,  
19 and many nuances to each of the areas. All I did as  
20 manager is say, here's your total work effort, team leader,  
21 organize it, get it done, work within this framework, and  
22 some other general management procedures that I had  
23 established. How he factored -- dealt with a specific  
24 add-on was pretty much his call.

25 MS. GARDE: What documents would I have to look

1 at in order to determine what your team leaders did in July  
2 and August of 1984?

3 MR. IPPOLITO: I don't think -- I think the best  
4 you could do -- I think initially there was a lot of  
5 investigation, nothing in writing. Digging, digging,  
6 digging. Then we got to the point where we could start  
7 writing, and I think the SSERs or the write-ups for each  
8 individual allegation or group of allegations is dated, so  
9 the outcome of these write-ups is probably all that you  
10 have.

11 MS. GARDE: Let me give you an example.

12 MR. IPPOLITO: Excuse me. I'm reminded that for  
13 each allegation, we have a file. Within the file is all of  
14 the information, all of the records that the person used to  
15 -- that he used in developing his conclusions regarding  
16 that or that family of allegations.

17 MS. GARDE: Okay, each allegation had -- let me  
18 give you a hypothetical. You have an allegation that comes  
19 from a newspaper article. That's the source of the  
20 allegations. What's the first step that your team followed  
21 when they were faced with this allegation in the newspaper  
22 article that takes it from the newspaper article to the  
23 SSER? What's the first thing that was done?

24 MR. IPPOLITO: Pick one that in fact did happen  
25 and I don't remember -- the allegation had to do with some

1 subject area. That was assigned to the proper team leader.  
2 As part of his review, he tries to establish the genesis  
3 for this. We try to help him, meaning my group tries to  
4 help him. Some of these newspaper articles did identify  
5 people. To the extent that we could talk to these people  
6 and find out more about these things, we did. Other than  
7 that, we then tried to understand what the allegation was  
8 about and proceeded to establish again what the accepted  
9 program would be, the procedures that implement that  
10 program, and track it down that way.

11 MS. GARDE: Where does something get put on  
12 paper in that process? Where did the technical review team  
13 members put something down on paper in that process?

14 MR. IPPOLITO: I'm not -- part of their review?

15 MS. GARDE: Yes. Okay, I think we're talking  
16 across each other. If I could go back in time, and I went  
17 into the technical review team records in July of '84, okay,  
18 what documents did the technical review team develop that  
19 identified the allegations? You have allegations coming  
20 from a lot of different sources -- newspaper articles, word  
21 of mouth, hearings -- you know, a whole group of areas.  
22 How did that get put on a piece of paper which then starts  
23 its process through the Nuclear Regulatory Commission and  
24 ends up in these SSERs?

25 MR. IPPOLITO: I think I answered that one time.



1 I'll repeat it. What was done is that we would take the  
2 item, be it from a statement made by somebody, identify the  
3 item, try to describe the item, create a file on that item  
4 with its background and whatever we have that supports that.  
5 That file then would be given to the group leader for his  
6 work.

7 MS. GARDE: So there's no standardized form? If  
8 I went and looked at the allegation files there's no  
9 standardized form in the allegation file which says "this  
10 is what the allegation is" so that I could sit down myself,  
11 look at the newspaper article and look at the way you  
12 defined it and compare the two allegations?

13 MR. IPPOLITO: Yes, you can. You can take --  
14 the final characterization of the allegation is contained  
15 in the SSER. So you could take that and you could go back  
16 to our records and you should be able to find the genesis  
17 for that, so in other words, you can check.

18 MS. GARDE: I should be able to see each step.

19 MR. IPPOLITO: If you look at pages that go  
20 before and after this thing, that's not the way you would  
21 read it, but that's the way we read it. You would be able  
22 to tell that difference.

23 MS. GARDE: Tony will finish up.

24 MR. ROISMAN: We talked earlier about the extent  
25 to which you talked to allegeders, and I'm interested in

1 getting some sense of, to the extent that you know it; to  
2 what extent were you able to talk to alleged before you  
3 did site visits, before you did the on-site work?

4 MR. IPPOLITO: I would say we did -- maybe about  
5 20 percent of what we did was beforehand, if you will.

6 MR. ROISMAN: How much of it while on site?

7 MR. IPPOLITO: Maybe another 10 or 20 percent.

8 Again, I have to remind you that where we thought we  
9 understood it, where we had detailed statements or detailed  
10 records of what the allegation is, we didn't feel the need  
11 to do it, you know, at the front end. Those where we  
12 didn't understand, there was a standing direction; where  
13 you didn't understand, you got to try to find out and clear  
14 that up.

15 So I'm saying that's what's happening at the  
16 site. So you know, since all of the work was done, most of  
17 the site work was done by the middle of October, I have to  
18 assume that at least people believed that they understood  
19 all of the allegations or had asked to talk to people to  
20 make the clarifications, but nonetheless, we had started  
21 before I left the closeout of these things, okay, and that  
22 was carried on after I left. And I think Mr. Noonan can  
23 talk to that later, but you know, that's where we are on  
24 that in that one area.

25 MR. WESSMAN: During the course of the site tour

1 we talked to somewhere between 15 and 20 alleged. Those  
2 were the ones we felt we needed to talk to to clarify  
3 issues they already raised or in a couple of occasions they  
4 were identified to us as a new alleged during the course of  
5 our time on site.

6 MR. ROISMAN: What was the value, in your  
7 judgment, of site visits as compared to the work done after  
8 the site visit? What were your people getting by being on  
9 site that they couldn't get if they didn't go to the site?  
10 What sort of things?

11 MR. IPPOLITO: We had -- at the site we had all  
12 that we needed. We had the documents right there. Those  
13 were the documents we wanted to see, not something that  
14 could be sent to us. The systems were installed there.  
15 Right there. Let's go look at them. Let's see beyond the  
16 problem that was identified. In other words, if it is a  
17 hanger in this area, let's look at hangers in other areas.  
18 The third dimension is that you could not get out of  
19 working out of an office up here.

20 MR. ROISMAN: In your judgment was it valuable  
21 to be able to go in and see the whole file in which some  
22 particular document that you may have been interested in  
23 was placed, rather than to rely on the applicants to send  
24 you the document?

25 MR. IPPOLITO: Our objective was to

1 independently, at random, try to establish whether or not  
2 an allegation or issue was in fact substantiated. I think  
3 that we had to do this.

4 MR. ROISMAN: I guess what I was driving at,  
5 sometimes at least, in our experience -- I don't know what  
6 yours is -- sometimes when we ask the applicant for a  
7 document, we get a document in a certain form. Then we  
8 learned the same document is available in another form, not  
9 necessarily with the material that we got the first time  
10 changed, but with more things attached to it.

11 Was it advantageous from your perspective -- if  
12 you wanted to see an NCR, was it advantageous for you to be  
13 able to go to the NCR file and see the NCR as it appeared  
14 in the file rather than to say to the applicant, send the  
15 NCR 465 or whatever? Were there some advantages to that?

16 MR. IPPOLITO: I guess if you speak of an NCR,  
17 the NCR is what it is. You could make a photocopy of it or  
18 whatever you want. It is still the NCR. I think that we  
19 did more than that. We independently selected not only  
20 that NCR, probably and randomly picked on either side of  
21 that NCR a number of others. We did it ourselves, we  
22 didn't rely on someone else to pick our sample, so I think  
23 that's the advantage you have. You could look in and see a  
24 document package that is maybe a foot thick, and you see  
25 one that's only, you know, like three pieces of paper in it,

1 and you might say, that looks like one extreme and another  
2 extreme. I think I'll find out why. These are the type of  
3 things that the reviewer can take advantage of.

4 MR. ROISMAN: When you use the words "sample"  
5 and "random," you're using the lawyers' sense and not --

6 MR. IPPOLITO: Yes. Vince's comment is still  
7 appropriate.

8 MR. ROISMAN: Generally applicable.

9 We're happy to break for lunch unless you want  
10 to hang here.

11 MR. IPPOLITO: Does that mean we're through with  
12 me?

13 MR. ROISMAN: We're never through. It means  
14 when we come back from lunch we don't intend to start  
15 asking you questions.

16 (Whereupon, at 12:20 p.m., the meeting was  
17 recessed, to reconvene at 1:00 p.m., this same day.)  
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AFTERNOON SESSION (1:05 p.m.)

MR. CHANDLER: I would like for the record to note that the Staff did provide to Ms. Garde a copy of the document entitled "Technical Review Team Guidance," dated June 1984, which she requested prior to the break.

MR. ROISMAN: We're delighted, and for the record, this is the first time we've ever seen it.

Mr. Noonan, there came a time when you assumed responsibility for the technical review team. What I would like to know from you, first, is to what extent were any of the procedures or processes that Mr. Ippolito discussed this morning changed by you after you took over?

MR. NOONAN: Okay, when I took over basically there were some instruction that Darrell Eisenhut gave me. Number one, no changes in staff, at that point in time. I shouldn't start restaffing with different people.

Number two that the work was done basically at the site by the technical review team people, group leaders. Their work was not totally completed but for all practical purposes was done. I should start working on getting the SSERs written.

Number three was allegations. I should become personally involved in the allegations, go out and meet Ms. Ellis, meet Ms. Garde, and talk to the allegeders myself as many as I could practically do, and then start thinking



1 about the hearings and how we were going to handle them and  
2 Staff positions. So that was the four things.

3 My instructions to the Staff was basically to  
4 write the SSERs. They had done the work. They know how to  
5 write SSERs, do it. I didn't get involved in that process  
6 at that time. What I did was concentrate on the  
7 allegations and I spent the first probably six weeks  
8 getting familiar with the allegations, the system we had,  
9 and I decided that I wanted to improve on that system by  
10 providing better organization and recordkeeping. I wanted  
11 to make sure that we had -- you'll hear it many times,  
12 auditable file, for the allegations. I wanted the files to  
13 be complete so that we knew how the allegation was handled,  
14 if the allegation was indeed the way the allegers stated it,  
15 the feedback, start tracking where we were addressing SSERs  
16 and how it would be eventually closed out. The system was  
17 changed from time to time. We put it into an organization.

18 Basically, we took the regional force system  
19 that they had at that time, brought it up to Bethesda and  
20 started working with it from that point on to make it to  
21 what I felt was more organization to the system and also  
22 putting it on a computer link. That's kind of the way we  
23 worked the allegations. We did make some ground rules as  
24 far as working with the allegers. The ground rules  
25 basically were stated by me and they are in a document that

1 we wrote. Basically, it is the agency policy on the  
2 alleged. We asked individual technical people, when they  
3 talked to the alleged, particularly when they provide  
4 feedback, treat the alleged with respect. Don't question  
5 their motivation, don't get involved in that. Treat it as  
6 factual until such time as you decide from a technical  
7 basis that it is factual or not factual, and don't  
8 challenge the alleged.

9 Early on, I think we had a couple cases and I  
10 can't recall exactly what they were, but where the Staff  
11 got argumentative with the alleged and it wasn't  
12 necessarily Staff's fault, but I didn't want to get into  
13 that kind of environment. If the alleged said it was that  
14 way, do it that way. Provide the alleged with feedback  
15 from the technical staff and see if the alleged agrees. If  
16 he doesn't like it, find out why. Try to get it on the  
17 record why. If the allegation wasn't correct, the Staff  
18 misinterpreted the allegation, didn't write it down  
19 correctly, whatever that was, then by God let's get it  
20 right and address the right allegation.

21 That process basically took us -- at least my  
22 involvement was pretty deep until November and December,  
23 and at this time, the Staff was working on SSERs. I put  
24 together a panel that was intimidation and harassment panel.  
25 I also put together a contention 5 panel. I set up a new

1 type of organization where I had basically just three  
2 people reporting to me. I should say four, because in this  
3 allegation I assigned a specific individual to be  
4 responsible for the allegation system rather than have all  
5 the technical groups working on their own allegations and  
6 eventually being coordinated into one group. I had one man  
7 assigned to make sure the allegation system was put in a  
8 form we could handle and deal with. The last was working  
9 with the utility on the set-up of the CPRT, putting out our  
10 concerns, talking about, Mr. Utility, you now have all our  
11 concerns addressed, we want you to come back -- and these  
12 were the letters and finally the SSERs.

13 MR. ROISMAN: Let's go back to the allegeders for  
14 a second. At the time you took charge of the technical  
15 review team, essentially two of the technical review team  
16 letters, September and October, were already out. There  
17 was a letter in November and finally one in January of 1985.  
18 Explain to me how the changes that you made with regard to  
19 dealing with the allegations of the allegeders and the  
20 allegeders themselves, how did that change, if it did at all,  
21 the development of the technical review team letters, the  
22 development of the subsequent SSERs, or is this a separate  
23 track done in some way separate from that whole process?

24 MR. NOONAN: No, they are tied together.  
25 Basically it didn't affect the two letters that had gone

1 out so much. It basically affected the SSERs because we  
2 told all parties that while the letters were there there  
3 were still additional things to bring forth, and those  
4 could have been things we brought out while we were putting  
5 this allegor system together. I looked for things where it  
6 said we couldn't contact the allegers. Why couldn't we?  
7 Let's fix the process to make sure we have a record to say  
8 we did contact them or if we didn't, why we didn't.

9 So in our files you should find something in  
10 that file that says we contacted the allegor and there will  
11 be a transcript there to indicate that or there will be a  
12 letter there. If we did not contact the allegor there  
13 would probably be a piece of paper saying we sent a  
14 registered letter and got it back, and a few refused to  
15 meet with us and that should be in there also. Anything  
16 would be updated as far as what might have been in the  
17 letters, but the SSERs should now reflect the current view  
18 of the Staff.

19 MR. ROISMAN: Can you give me some idea of what,  
20 or in some detail -- you went through it very quickly and  
21 I'm not sure I understood it and certainly didn't remember  
22 it all. What were the things you changed about how  
23 allegations from allegers were dealt with by the Staff from  
24 what had existed before you came in?

25 MR. NOONAN: Organizational was the big thing.

1 I felt we needed a system where we could find out the  
2 allegation number. We had given everybody a number because  
3 we didn't want names to get out -- who was working on the  
4 allegation, where it was addressed in the SSERs -- so it  
5 was an organizational procedure.

6 Sometimes we need to provide closeouts,  
7 everything will be closed out, there has to be a record for  
8 my purposes at least of managing to make sure I know who  
9 did it. Did they look at the right allegation, are we sure  
10 it is right, and where is it closed out. We played back  
11 what you call commission policy on allegeders, put through  
12 all of the technical people. We sent copies to every  
13 technical person. We set the ground rule. When you talk  
14 to allegeders, technical people have a tendency to look at  
15 the technical answers, and I didn't want them to become  
16 argumentative with the allegeder. The allegeder believed what  
17 he believed. He wasn't necessarily always right. I didn't  
18 want to challenge him in a meeting like that. I thought we  
19 could do it on paper.

20 MR. ROISMAN: In the technical review guidance  
21 team document we got dated June 1984, there are some  
22 instructions in there for dealing with allegations and the  
23 allegeder which appear -- sorry, there's no page number. It  
24 is in attachment 3, and it is on the third page of the  
25 attachment under paragraph G. I want to know, are there



1 other instructions that you added to this beyond these that  
2 dealt with how people should be dealing with the allegeders?  
3 If it is in a document, say I did this a supplement to this --

4 MR. NOONAN: I believe I did read that when I  
5 came on board and put it in the file. Basically we started  
6 with a set of instructions that followed much along the  
7 Diablo Canyon lines, the treatment of the Diablo Canyon  
8 allegeders. We took the policies followed on Diablo Canyon  
9 and put together a document that said here's how we will  
10 treat allegeders from this day forward. It is different. I  
11 don't want to call it a supplement because I didn't use it  
12 as a basis for any other document.

13 MR. ROISMAN: So we'll be able to find it and I  
14 assume it is coming in the course of things, what is it  
15 called? What should we look for?

16 FROM THE FLOOR: I think procedures for closeout  
17 of the allegeders.

18 MR. ROISMAN: What did you do when in going  
19 through your procedures you identified an allegation which  
20 in your judgment had not been properly closed out but was  
21 already the subject of a published technical review team  
22 letter. Did you go back and do a further site analysis,  
23 send people back on the site again?

24 MR. NOONAN: I would have made the people  
25 available to the site if necessary. We always asked that,



1 do you need to go to the site to answer the allegation or  
2 is this something you already covered. We provided  
3 feedback to the person. I would have given it probably at  
4 that time -- this time I was setting up kind of a different  
5 organization and I would have given it either to Mr. Shao  
6 or Mr. Calvo. Those were the two people who were going to  
7 become responsible for almost all of the technical work. I  
8 hadn't put the new organization in place yet, but I was  
9 going in that direction.

10 MR. CALVO: To supplement what Mr. Noonan is  
11 saying, we did in some cases follow up allegations, set up  
12 a team to go back to the site because new information  
13 resulted from the allegers or new allegations altogether.  
14 So it was a judgment on our part whether we had to go to  
15 the site or maybe the information we had was good enough in  
16 our SSERs in some kind of way to cover that particular new  
17 allegation or new ramification of that allegation.

18 MR. NOONAN: We had people at the site this  
19 month looking at new allegations.

20 MR. ROISMAN: The next question, what did you do  
21 with allegations which you learned of subsequent to the  
22 time of the original technical review team site visit?

23 MR. NOONAN: They would have been logged into  
24 the system so we have a record of it. They would have been  
25 given to my technical people for resolution and then

1 addressed in a formal supplement to another SSER, and I  
2 think at that point in time, we hadn't officially put it  
3 out. All the allegations we addressed over and above what  
4 Richard looked at are covered in SSER 7 to 11, or will be  
5 covered in the next edition. I haven't fully decided. I  
6 might put it into an appendix.

7 MR. CALVO: The electrical instrumentation group  
8 give status on new allegations or follow-ups which come up  
9 after the SSER number 7. We indicated which they were, and  
10 in the process of evaluation gave the status, what  
11 conclusion we had reached at that time. The process is  
12 still going on.

13 MR. NOONAN: As of September 15 we took the  
14 allegation files, brought them back into the region. The  
15 region now has responsibility for any allegation that  
16 appeared after September 15. We're handling the ones  
17 before that time. The region will transfer to me if  
18 there's a need for any technical evaluation?

19 MR. ROISMAN: What would they look at where  
20 there wouldn't be a need for technical evaluation.

21 MR. NOONAN: Depends. Could be strictly an  
22 inspection allegation that they could handle themselves.

23 MR. ROISMAN: Could you give me a "for instance"  
24 so I understand the distinction?

25 MR. NOONAN: Could be that something -- a cotter

1 pin was left out in certain things. The region could look  
2 at that themselves. If it was true they might want to get  
3 the technical staff involved, but depends on what the  
4 resolution of the region evaluation was. We're going to be  
5 informed of all the allegations. We do know at this time  
6 what all the allegations are, so it is communication  
7 between us and the region.

8 MR. ROISMAN: Is the region following your  
9 guidelines in how to deal --

10 MR. NOONAN: In general. They we close them out  
11 in terms of SSERs and they close them out in terms of  
12 inspection reports.

13 MR. ROISMAN: But how they do their  
14 investigation, in the way in which they deal with the  
15 allegeders? Did the directives you gave to your technical  
16 review team staff on how to deal with the allegeders,  
17 rewritten ones that you developed, have you given that  
18 directive to region 4?

19 MR. NOONAN: Yes.

20 MR. ROISMAN: Are they required to follow that  
21 as a result of you giving it to them?

22 MR. NOONAN: I don't know about "required." I  
23 fully expect them to follow it to the best that they can.

24 MR. ROISMAN: Are you in effect auditing their  
25 work on that?

1 MR. NOONAN: No. I'm talking to them and I talk  
2 to them almost daily, so communicating with them.

3 MR. ROISMAN: Why did that allegor investigation  
4 work get transferred to the region rather than staying in  
5 your office?

6 MR. NOONAN: That's the way it does business.  
7 The region normally looks to the allegations. We're  
8 through most of the allegations. We've looked at almost  
9 all of the allegers. You haven't seen the final  
10 disposition of some of the allegations, but as far as the  
11 Staff work is concerned, most of it is completed.

12 MR. ROISMAN: Do you have a rough idea of how  
13 many allegations are contained in the already published  
14 SSERs and how many allegations that your people will be  
15 dealing with where there is still no published resolution?

16 MR. NOONAN: I'll give you numbers. I think  
17 around 700-some allegations that probably -- yes, probably  
18 closed in the SSERs. Probably another 300-some being  
19 basically worked on by my staff here, our staff, and  
20 there's a few down in the region now, less than a handful  
21 probably.

22 MR. ROISMAN: What mechanism, formal mechanism  
23 exists that if an allegation is received by the region  
24 through the new system and has allegations that are already  
25 being investigated that your people will be made aware of

1 the new allegation?

2 MR. NOONAN: That's done through my allegation  
3 coordinator. I put one person in charge of allegations.  
4 That person basically communicates with the region  
5 frequently, sometimes more than once a day. That  
6 information is brought into our system. We know what's  
7 being done and I have put together a system where we can  
8 track not only allegations but board notifications. We  
9 know who is doing what.

10 MR. ROISMAN: Do I understand it is not yet  
11 determined what form the published resolution of the 300 or  
12 so allegations you're still looking at will take?

13 MR. NOONAN: No. The NRR Staff will close them  
14 out in future safety evaluations being written, an appendix  
15 to the evaluation and the region 4 staff will receive them  
16 as inspection reports.

17 MR. ROISMAN: Not in one future SSER but maybe  
18 as part of several future SSERs.

19 MR. NOONAN: As they are done.

20 MR. ROISMAN: Those allegations, to the extent  
21 they are related to that subject.

22 MR. NOONAN: Yes.

23 (Discussion off the record.)

24 MR. ROISMAN: You expect them to be an appendix  
25 to a future SSER.

1 MR. NOONAN: Yes. We have what we call normal  
2 licensing activities to be resolved. SSER 12, the normal  
3 SSER went out. The next one will more likely have an  
4 appendix in them.

5 MR. ROISMAN: Those will not necessarily be  
6 related to the subject matter of the SSER; you use that as  
7 the convenient way of getting it out?

8 MR. NOONAN: Yes.

9 MR. ROISMAN: The allegations that have not yet  
10 been closed out in published SSERs, is there any way they  
11 are being treated that is different than the way in which  
12 earlier allegations were being treated in terms of the  
13 nature of the investigative work that you do or how you  
14 deal with the allegeders or any of that?

15 MR. NOONAN: Only in the respect that you always  
16 try to change to improve the system. That's the kind of  
17 changes that I would expect at this point in time,  
18 something that we felt could have been done better. We are  
19 now doing better.

20 MR. ROISMAN: To the extent that field  
21 investigations would have been done if this were an  
22 allegation that had been in Mr. Ippolito's hands in June of  
23 1984, they would be field investigated now?

24 MR. NOONAN: Yes, if required, Staff will decide  
25 that.



1 MR. ROISMAN: There are no different set of  
2 criteria, the same Mr. Ippolito used in deciding when to  
3 field investigate would in effect be used?

4 MR. NOONAN: Yes.

5 MR. ROISMAN: You mentioned that you had -- one  
6 of the changes that you had made was the establishment of  
7 contention 5 in the harassment/intimidation packages. Can  
8 you just put them into the context of the process that was  
9 under your jurisdiction? Were they expected to participate  
10 in the development of any of the SSERs to start with?

11 MR. NOONAN: No, not in development of the SSERs.  
12 The contention 5 panel would be basically to see if the  
13 Staff was adequately addressing the concerns related to the  
14 allegations. Did we do a good job, were there things that  
15 we were not answering correctly, is the Staff position  
16 articulated properly, does the Staff have a basis for that  
17 position? The contention 5 panel was for that.

18 The overall charter contention 5 panel has been  
19 published, to see what the effects would be on QA/QC.  
20 Intimidation and harassment panel basically was a panel of  
21 people put together to address those specific issues, not  
22 look at the technical aspect but take what the Staff found  
23 and treat it in terms of intimidation and harassment, and  
24 that document stands by itself right now.

25 MR. ROISMAN: Well, the reason I was asking the

1 question is that it appears that having now seen the  
2 published report of the harassment/intimidation panel, that  
3 the panel essentially adopted the work done by the  
4 consultant EG&G, which was itself an evaluation of  
5 available materials as opposed to a raw research job..  
6 Started with what was available, looked at the record,  
7 transcript and all the other available materials.

8 That, at least on its surface, appears to me to  
9 be different than what appeared to have been the original  
10 mandate of the harassment/intimidation panel. And I wonder  
11 with regard to 5, that there has been any similar  
12 modification in the role that you see the contention 5  
13 panel playing from what had been indicated in its original  
14 authorization documents.

15 MR. CHANDLER: I think once again we're straying  
16 out in areas not related to the technical review team.

17 MR. NOONAN: There is a change, but you're right.  
18 Were getting off. Questions on intimidation/harassment, I  
19 would like to have that addressed to those people that  
20 worked on that. On the contention 5 document, panel, the  
21 document stands as it is. Those documents are in the  
22 record.

23 MR. ROISMAN: Talking about the original  
24 document.

25 MR. NOONAN: Yes.

1 MR. ROISMAN: Beyond what you described, what  
2 other, if any, modifications did you make in the approach  
3 that had been taken in the development of the technical  
4 review team when Mr. Ippolito was in charge of it, insofar  
5 as either producing technical review team letters or  
6 producing SSERs?

7 MR. NOONAN: I'm not sure there was any real  
8 change in approach. I might have used different techniques.  
9 I might have not been satisfied with the answers that I saw.  
10 I basically wanted to make sure that Staff had their  
11 conclusions and that they could articulate the basis for  
12 those. What do we need to do to do that job? That's what  
13 I would have done.

14 MR. ROISMAN: In the development of the work you  
15 did, to what extent were the limited budget of the  
16 technical review team constraints on the things you thought  
17 you needed to do?

18 MR. NOONAN: We as an agency always have  
19 limitations on budget. One thing I did do, when I came on  
20 board in October I also brought on board a contract person  
21 so we could handle the contractual problems that we  
22 normally incur. By that I mean getting people on board and  
23 available people and monies. Up to this point I haven't  
24 really had any -- I had sufficient resources to do what I  
25 needed to do.

1 MR. ROISMAN: I think we'll have no further  
2 questions for you, and I would like to start on SSER number  
3 7 with Mr. Calvo.

4 MS. GARDE: Mr. Calvo, I'm going to ask my  
5 questions based on SSER 7, which you also have in front of  
6 you. On page beginning on page J-3 and going on to page J-4,  
7 there's a description of the concern and allegation  
8 tracking system and the review methodology. This document  
9 says that the technical review team determined the validity  
10 of each technical concern or allegation and assessed its  
11 safety significance, its potential generic implications and  
12 any indication of potential plant breakdown.

13 Going back through each one of these, could you  
14 please describe what was the basis for the determination in  
15 these areas in your category, which would be all the  
16 electrical allegations covered in here?

17 MR. CALVO: The basis of intimidation of the  
18 validity? I guess we can go to J-7. I guess this is in  
19 essence the electrical instrumentation group summary. We  
20 had about nine categories. Next we have the subject matter  
21 for each category and the correct characterization, with  
22 the characterization of the concerns and the allegations in  
23 those categories.

24 The first category was electrical cable  
25 terminations. How do I determine the validity of each

1 allegation. What we did, we took all the available  
2 allegations in the electrical instrumentation systems and  
3 tried to put them in nine bins, in accordance to the type  
4 of allegation there was. For instance, in the category 1  
5 we put everything that had to do with electrical  
6 terminations. Or hardware related, sometimes QA/QC related.  
7 We went down the line. When we get to the electrical cable  
8 terminations, we look at the allegation and are trying to  
9 determine the validity of that allegation. If we have the  
10 specificity it is very simple. Inspect the particular  
11 installation or look at a particular document but always go  
12 back to the installation; we try to do that.

13 Then that will determine the validity of that  
14 allegation. The question is, what we do after we determine  
15 validity. If it is determined to be adequately  
16 substantiated then we try to determine what are the  
17 ramifications of this particular allegation. What were the  
18 generic implications? Was any more problems like this on  
19 the plant?

20 MS. GARDE: Before you go into that, when you  
21 say if you determine that it was adequately substantiated,  
22 now, what do you mean by the term "adequately substantiated"?

23 MR. CALVO: The description or the  
24 characterization of the allegation. For instance, the  
25 allegation says, if the specificity will say cable XYZ was

1 terminated improperly, we confirm that that particular  
2 cable did not confirm with the drawings, we say it was an  
3 allegation that -- it was adequately validated, adequately  
4 substantiated. The allegation was correct. No further to  
5 go into that if the specificity was there.

6 I must add, most of the allegations, they were  
7 mostly very general. There were very, very few -- count on  
8 the fingers of your hand -- that had any specificity in it.  
9 When you are confronted with that type of allegation, it  
10 was a global allegation, I had to make a judgment where to  
11 look to see whether it has some merit. I could not focus  
12 on any particular area. I must go to the plant and pick an  
13 area of the plant where the greatest conglomeration of this  
14 particular installation I could find.

15 In the electrical systems one place you found  
16 the greatest concentration would be the cable room. In the  
17 electrical termination we figured out the greater majority  
18 of the cable termination was in those areas, and more  
19 logically we will find the problems in there, and that's  
20 what we did.

21 MS. GARDE: Let me restate what I think you said.  
22 Where there was programmatic concerns raised with no  
23 specific basis, cable number, drawing number, you would  
24 design an inspection program which would give specific  
25 information, come up with a set of examples or drawings to



1 look at, then go look at those drawings to reach the  
2 conclusion on the programmatic concern raised by the  
3 alleged?

4 MR. CALVO: We call it approach to resolutions.  
5 Those indicated how you go about tackling this particular  
6 problem, what we should do with the allegation. Was it  
7 specific or was it generic. We always try to go forward  
8 enough, looking, reinspect enough to determine whether the  
9 allegation, valid or not valid, it has some possible  
10 generic implications.

11 MS. GARDE: Let's stick with a small number of  
12 specific allegations. I want to make sure I understand.  
13 Where you had, for example, cable termination numbers or  
14 cable numbers, and I went and kicked the tires, as the term  
15 has been used, and you found that that particular cable or  
16 cable termination was correct as you looked at it today or  
17 July '84 when you looked at it, did you make any attempt to  
18 determine if, between the time period when the allegation  
19 was made, say the person left the site in January of '84,  
20 and that is the extent of his knowledge, and July '84, when  
21 you were looking at it, did you make an attempt to  
22 determine whether between January and July those cables had  
23 been corrected, NCRs had been written, the problem had been  
24 found by the utility and adequately dealt with?

25 MR. CALVO: Not in the specific time frame. We

1 look at the installation up there at that time, could have  
2 been done for the last 10 years. We look at that  
3 information pertaining in that particular area we felt was  
4 the problem area.

5 MS. GARDE: When you say a specific allegation  
6 was not substantiated, that term means that at the day you  
7 looked at it, that particular component was acceptable?

8 MR. CALVO: The particular component was  
9 acceptable, in some cases. In other cases I could not  
10 reach that conclusion because it was not enough information  
11 to reach that conclusion. In some cases I could say it.  
12 If it was specific enough, told me exactly what it was, you  
13 correct it.

14 MS. GARDE: That's the ones we're talking about  
15 now, specific allegations?

16 MR. CALVO: That's correct.

17 MR. NOONAN: If I can just interrupt one second,  
18 when the Staff looked at the allegation, they made a  
19 determination whether or not the allegation, they could say  
20 that it was a -- they could validate the allegation. A lot  
21 of things could happen in the normal work process at the  
22 plant that could have changed things from -- if there had  
23 been a year span there could be a difference, so I guess  
24 what I'm saying, normal work done at the plant could have  
25 taken care of the some of the problems alleged by the time

1 the Staff got there. Normal work.

2 MS. GARDE: I want to understand what his SSER  
3 means. I already know what you think. Tony is going to  
4 ask a clarifying question.

5 MR. ROISMAN: I want to be clear about this. Do  
6 I understand the way you did the investigation it is  
7 possible that the following could happen: A worker sees a  
8 condition in 1982 that is nonconforming. He attempts to  
9 raise it with management and they reject it. Sometime  
10 after that he leaves the plant site. He eventually becomes  
11 an alleger and his allegation shows up on your desk. After  
12 the plant has been deemed to be completed, the defect is  
13 still there, still in the plant, still at the place he saw  
14 it. But management learns that the alleger has gone to the  
15 Nuclear Regulatory Commission. Now they know that he is  
16 pressing that issue.

17 They go in then, after all their inspection work  
18 was presumably done, and they fix that problem. You now  
19 show up sometime after June of '84, and you go to look, and  
20 you see the physical hardware, and it is not -- no problem  
21 anymore. That it is possible that at that point, you will  
22 write on your sheet, this is not substantiated, there isn't  
23 a problem here, and never have gone back to find out in  
24 paperwork whether the correction was made in the normal  
25 course, as Vince just said, or whether it was made after

1 applicant had represented that it had completed all of its  
2 work on that component, and maybe only because of the  
3 existence now of an external allegor.

4 MR. CALVO: If we go back to the basis that you  
5 have a specificity, the specificity was an NCR number, that  
6 would have forced me to go to the paperwork. If the  
7 allegor was that person that you say that sometime in the  
8 past brought up a particular problem that it was corrected,  
9 then I think if the specificity was there on the paper,  
10 where that would force us to look into that.

11 If the problem was just the hardware item, no  
12 paperwork trail for it, we did not go to verify the fact  
13 that, yes, it was truly an allegation corrected by  
14 management because I would not know where to look at it. I  
15 guess that particular aspect of it, I would consider that's  
16 part of the QA/QC program. Looking at the programmatic  
17 concerns, how things evolved throughout the plant. There  
18 was not a way for me to recreate the crime and say, by the  
19 way, you are right, but they have corrected it. If the  
20 specificity —

21 MR. ROISMAN: The normal course of the look at  
22 allegations did not include an automatic look to see  
23 whether problems which the allegors, whether specific or  
24 general, problems which the allegors said existed and which  
25 on review of the hardware you found were not there, there

1 wasn't an automatic, let's look and find out whether this  
2 thing got fixed only in the last month or whether it got  
3 fixed within a month of when the problem was raised and  
4 this allegor just never knew it got fixed.

5 MR. CALVO: Even if we had done that it would  
6 only apply to a handful of allegations because the  
7 specificity was not there. There was no way I could  
8 recreate that kind of trail.

9 MR. IPPOLITO: Isn't it a fact, unless one wants  
10 to make the assumption that the applicant would totally  
11 violate all of his procedures, his QA/QC procedures, any  
12 modification done on that plant would have had a record of  
13 some sort, regardless of whether it was done today,  
14 yesterday, a week ago, a month ago, a year ago? Would  
15 there not have been a record that a modification had been  
16 performed and the time it was performed?

17 MR. CALVO: Should have been. In the ideal  
18 world, there should have been.

19 MS. GARDE: My question assumed the paperwork  
20 was there. It was more directed to when were corrections  
21 made.

22 MR. IPPOLITO: I would be surprised then. You  
23 did what you did, Jose. I would be surprised in looking  
24 over that data, that control package or data package, that  
25 his people, and I know the people who were working on this,

1 would not have looked at the whole package, would not have  
2 known that there were modifications done at a certain time.

3 MS. GARDE: You are going further than I think  
4 my question is. When you say was adequately substantiated,  
5 I wanted to understand that.

6 MR. CALVO: The focus of my review was to  
7 validate the allegation, but I don't stop there. I went a  
8 step further. I know that allegations reflecting this  
9 issue, whether they were there or not. If it was not  
10 validated, I would go the same way whether it was validated  
11 or not validated. To satisfy myself if the allegation was  
12 an isolated case and also provide me the basis, what I will  
13 tell the applicant to do to look in a more global way in  
14 the plant.

15 MS. GARDE: In the case where you have specific  
16 information, component number, NCR number, you look at that  
17 and everything looks all right, acceptable --

18 MR. CALVO: With the standpoint of the NCR  
19 paperwork I always double check by looking at the  
20 installation. I felt the paperwork was the QA/QC  
21 responsibility. My job was the product. I want to be sure  
22 that the product was okay regardless of whether the  
23 paperwork was telling me one thing or the other.

24 MS. GARDE: Good. I'm glad you clarified that.  
25 If you had a specific allegation and you only had a handful



1 of those with that type of specificity and it was not  
2 substantiated as being a problem, you still expanded the  
3 scope of that allegation. So you looked at, for example,  
4 cable numbers, if you had a particular cable number, and  
5 that cable was acceptable, you still expanded the scope of  
6 what you looked at so that you looked at other similar  
7 cables.

8 MR. CALVO: I did that on a general basis. Of  
9 course there are exceptions to the rule. It was a judgment  
10 in one case to do it or not to do it. In most cases that's  
11 what I did. I wanted to be sure I was looking ahead to the  
12 future. Any new allegations in the future I wanted to be  
13 sure I had the umbrella over these categories--so I didn't  
14 have to send the team back to Dallas again. We wanted to  
15 be sure we put the arms around it. We spent enough time  
16 down there already.

17 MS. GARDE: Programmatic concerns. If you were  
18 given a general allegation with not very much specificity,  
19 you then developed a program to look at specific components,  
20 documents which would tell you whether or not that  
21 programmatic concern was substantiated; is that correct?

22 MR. CALVO: You say programmatic concern, an  
23 allegation has general connotations. Every time -- for  
24 instance there were allegations on cable separation.  
25 Allegation says you have cable separation problems on the

1 plant. No other information than that in some cases. We  
2 had a choice. We could go and pick up a little system in  
3 the corner and find out that it may be representative of  
4 the others, but on those we truly concentrated in three  
5 areas, in the cable spreading room, in the control room and  
6 the shut-down panel. We thought if there were problems we  
7 would find it there. We concluded there were some generic  
8 implications, some cases we did find problems with generic  
9 implications, but it was limited to it was my engineering  
10 judgment and the people working for me at that time. It  
11 was not a trail of a map that we draw, let's go from here  
12 to there. It was just concentrated on the area, be sure to  
13 pick up enough samples here and there and determine the  
14 implications.

15 MS. GARDE: Going back to J-8 -- J-4. I want to  
16 go through your process in this sentence because I have  
17 other questions on generic implications and other things in  
18 the sentence. We've now gone over how they determined the  
19 validity of each technical concern or allegation. The next  
20 part of the sentence is "and assessed its safety significance."

21 MR. CALVO: Let me go back to determinations.  
22 We can pick up any category and generalize it. A lot of  
23 the allegations we had were in our judgment associated with  
24 non-safety-related systems as defined in the FSAR. It also  
25 came to our attention that maybe the QC inspectors were

1 considering everything either safety or not safety. To  
2 them it was safety so we felt they were treating them as  
3 safety-related, the kind of quality must also be reflected  
4 to be safety-related. Every time, whether it was safety or  
5 nonsafety, we also tried to look at enough of those things  
6 around to find out there was not generic implications. Why  
7 spend more on this. We did what we could. We looked  
8 farther into the safety-related even though there was no  
9 allegation, and concluded whether it was safety or  
10 nonsafety, that's what we ended up.

11 MS. GARDE: Where in the process did you assess  
12 the safety significance of an allegation, was it at the  
13 beginning or at the end?

14 MR. CALVO: Neither, all through it. "It was not  
15 -- it was at the end when we write the conclusions. It was  
16 when the process was going on if it was nonsafety-related,  
17 although we agreed the QC inspector could not have made a  
18 difference. I guess if it had been safety-related, maybe  
19 my judgment, my generic implications, kind of arms around  
20 it maybe would have been a little bigger arms. I would say  
21 that's something to look further into it. Then we also  
22 jump into safety-related features if we felt it was  
23 appropriate.

24 MR. IPPOLITO: Unless things have changed, does  
25 it not have a section in it that talks about safety

1 significance at that specific or group of --

2 MR. CALVO: It does, but it is a very general  
3 form. It doesn't convey the kind of message. Say the  
4 significance is, say, something like the installation  
5 appeared to be undetermined. Doesn't add to the kind of  
6 thinking we tried to do there. Most of the  
7 characterization is not. Everything has safety  
8 significance. The the degree is what we tried to determine  
9 in relation to all the generic implications of the plant.

10 MS. GARDE: Going back to the general concerns  
11 that didn't have a lot of specificity that we're talking  
12 about, you used the term random, and am I right in assuming  
13 that you are not talking about statistical --

14 MR. CALVO: That would be with lawyers.

15 MS. GARDE: Is there any consistency to the  
16 number of documents you would look at to determine whether  
17 a general concern was substantiated?

18 MR. CALVO: To be honest I was more worried  
19 about things I found to be correct than not correct. Once  
20 I found problems with installations, then in my mind would  
21 think, well, appears that we have a problem. Appears it is  
22 not an isolated problem. Appeared that the utility would  
23 have to look into it. I would say that's one for root  
24 causes and for the generic implications. The ones I didn't  
25 find problems I always worry, because I thought, do I look

1 at enough of them? Do I have to go further?

2 MS. GARDE: I need to know how you reached the  
3 conclusion, what was the basis for your conclusions not to  
4 go further? What's your auditable trail?

5 MR. CALVO: I don't want to give you a litany.  
6 You want to ask me the ones that I found something wrong  
7 with, whether I felt it was enough that I didn't have to go  
8 any further? I think the auditable trail, if I found  
9 something wrong with a particular aspect, for instance  
10 electrical separation we found problems, do you truly -- it  
11 is an auditable trail but the action required from the  
12 applicant is to inspect all the electrical separation for  
13 that particular type of electrical system, that's better  
14 than any auditable trail. The whole thing got to be  
15 revisited in hundreds of numbers of magnitude.

16 MS. GARDE: That's not my question. There are  
17 things that you did not pursue, that you did not find a  
18 problem with, and they kind of dead end. That's the end of  
19 it.

20 MR. CALVO: Right. If I found a problem --

21 MS. GARDE: What did you look at to make that  
22 determination, how much?

23 MR. CALVO: It's not numbers. Sometimes bias,  
24 sometimes it is all contained in the SSERs. That's the  
25 general auditable trail, and from here you go to the



1 reference documents that we had as part of the allegations  
2 package. That will support this auditable trail. Numbers  
3 will mean nothing. What areas they will look, in some  
4 cases you got numbers, but the question is whatever numbers  
5 I give you, the important part is the actions that are  
6 required. If I required no actions the question would be a  
7 good question. But if I found problems with the separation  
8 in the control room packages and I say -- and that was  
9 validated, I asked the applicant to reinspect every panel  
10 for Comanche Peak, what better auditable trail do you need?

11 MR. ROISMAN: I want to ask you a question on  
12 that issue. You seem to be making an assumption, sticking  
13 with your control panel problem, that if you find a problem  
14 in the control panel, asking the applicant to reinspect all  
15 the control panels, reaches as far as you could conceivably  
16 reach so there was no need to look farther yourself, but if  
17 you don't know why there was a problem in the control panel,  
18 how do you know making the applicant look at the control  
19 packages would take care of the problems? If the why was  
20 equally applicable to noncontrol panel stuff, then your  
21 hundred percent look at the control packages would not have  
22 made them look broad enough.

23 MR. CALVO: You're right, but again I must look  
24 at the allegations and put some bounds around them, you see.  
25 I got the allegation. I got problems with separation in



1 the control packages. It was not mine to establish the  
2 root cause why you had problems in there, therefore you  
3 must have a problem somewhere else. The applicant could  
4 look at this problem and determine whether he had problems  
5 in the cable trays or whatever else, but as far as my scope  
6 of work it was limited to the allegations having to do with  
7 control panels.

8 MR. ROISMAN: There was an operating assumption  
9 that, at least in your group, was used that the language of  
10 the allegations as given you by the allegor defined the  
11 outer limits of how far you would require the applicant to  
12 go. If the allegor had said, in every time the applicant  
13 did an electrical inspection of the plant, they disregarded  
14 deficiencies if they would be time-consuming to repair.

15 If that had been the allegation, and you had  
16 gone to the allegor and said, how do I find that, and he  
17 said, well, go to the control packages and you'll find  
18 separation problems that never made it to NCRs, so you go  
19 to the control panel, look and say, he's right, I found  
20 these problems, but the scope of the allegation was that  
21 they were dropping the ball on deficiencies all over, and  
22 the one example that he happened to have for you was  
23 control panel.

24 Would your operating assumption make you then  
25 require them to reinspect the entire electrical system of

1 the plant or would you still have limited your requirement  
2 to reinspect the control panels because that was the only  
3 specific area where you found the allegation confirmed?

4 MR. CALVO: No, I guess for instance, I think it  
5 is yes and no. It goes back to the judgment, the  
6 significance of it. If I feel that the allegation provided  
7 me with some bounds, okay, normally we went outside the  
8 bounds of the allegations to establish -- there was no  
9 other problems in other areas of the plant.

10 The control room panels -- we don't ask them to  
11 fix the control room panel, we ask them to do every panel  
12 in the plant, so it will be enough from the standpoint of  
13 the argument, why get out of the control room because the  
14 allegation did not tell me to go to the control room.

15 We went further. We felt if it was a problem in  
16 a particular installation, we felt that maybe the same  
17 problem will occur in other areas of the plant, so our  
18 action was not only to concentrate on the control room, it  
19 is to go to all the panels in Comanche Peak and determine  
20 whether you had the same kind of a problem, so it was not  
21 what the allegation told us, it was what the judgment of  
22 the group told us.

23 MR. ROISMAN: How do you know to stop at the  
24 control panels all over the plant? How do you know it  
25 should not have also included the cable spreading room or

1       how do you know it didn't include all of the --

2               MR. CALVO: It is a matter of experience, of  
3       knowledge with this kind of installation. Had to do with  
4       the separation between flexible conduits. We felt, based  
5       upon what we found -- there were some drawings and  
6       specifications -- that the application of the regulatory  
7       criteria was misinterpreted. We feel if it was  
8       misinterpreted there, it may have been other places too.  
9       Depends on the case in question.

10              MR. ROISMAN: The question is, what's the basis  
11       for deciding that if the procedure was misinterpreted for  
12       let's say the cable separation, if it was misinterpreted  
13       for cable separation, it wasn't reflective of a failure  
14       plant-wide to understand many different electrical  
15       procedures, not just cable. How were you able to know that  
16       you could -- that you had gotten your arms around the  
17       entire problem with only the knowledge -- without ever  
18       having answered the question, why did this procedure not  
19       get understood? How did you know whether you had put your  
20       arms around enough of the problems?

21              MR. CALVO: If I understand you correctly, if  
22       you had problems with the electrical separation procedures  
23       why don't you have problems with the electrical termination  
24       procedures? Every electrical NCR we had, that problematic  
25       problem comes back to the QA/QC. If you look at the cable

1 separation, for instance, on page J-44, action to the  
2 utility, evaluate the adequacy of the QA/QC program. This  
3 is page J-44, has to do with the electrical category number  
4 3, electrical equipment separation, under actions required  
5 by the utility. "Evaluate the adequacy of the QA/QC  
6 program as related to the deficiencies identified above to  
7 establish root causes and appropriate corrective actions.  
8 These actions should be integrated with other actions  
9 addressed under the electrical instrumentation category 6,  
10 electrical QC inspector training and qualifications and  
11 QA/QC category 88 as built and QA/QC category 1, design  
12 process." The inference from one -- mistakes from one  
13 procedure to the other, that was feedback into the QA/QC,  
14 the programmatic overview. What are the implications, what  
15 else they can make out of that based on the programmatic  
16 assessment of the procedures?

17 MR. ROISMAN: Do you have a judgment as to how  
18 you believe that process is supposed to be implemented?  
19 Let's stick with the cable separation problems in control  
20 room panels. At this point, I take it, you do not know why  
21 it was that the proper cable separation procedures were not  
22 followed. All you know is that you looked at some and  
23 found that they were not followed?

24 MR. CALVO: No. In this particular case I know  
25 why, but again it was not the why for me to resolve. I

1 know the why was a personal why, but I want to be sure that  
2 that why was confirmed by the utility by looking further into  
3 it. I know why. My personal opinion it was a  
4 misunderstanding of the regulatory requirements versus the  
5 electrical specifications as transcribed into the drawings.  
6 That was our evaluation but there could have been other  
7 reasons.

8 Our scope was limited to identify those problems,  
9 identify generic implications and then the monkey was back  
10 on the utility's back for them to assess the root causes  
11 and reevaluate whether we have generic implications. We  
12 left it that way. That was the purpose of our review.  
13 That was limited to do just that.

14 MR. ROISMAN: Would you consider it to be part  
15 of an answer to the question why if it were true that the  
16 reason for the misapplication of the regulatory requirement,  
17 as put into the plant procedures, was an innate bias within  
18 the plant procedure writers to always look for the least  
19 amount of regulatory control? If that were true, would  
20 that be what you would call a "why did this happen"?

21 MR. CALVO: If I happened to know that. But how  
22 can I ascertain by looking at the procedure whether that  
23 was a bias?

24 MR. ROISMAN: I wasn't asking that. I was  
25 asking, is that the kind of answer which one ought to be



1     able to either prove or negate in trying to answer the  
2     question why?

3             MR. CALVO: Are you asking me for an opinion  
4     about that?

5             MR. ROISMAN: Yes.

6             MR. IPPOLITO: An opinion of wrongdoing.

7             MR. CALVO: Again, my review -- again, I'm not  
8     trying to evade the answer -- concentrated into the work  
9     product. That was my main focus, was the work product.  
10    Quality in the installation. The installation hardware was  
11    installed in accordance with requirements and I was using  
12    the procedures available to how that had been accomplished.  
13    Also we had the knowledge of what the requirements were so  
14    we know what procedures were to be followed and translated  
15    into drawings and in the installation. That was the focus.  
16    Whether that could have been my opinion or not, I don't  
17    know.

18            MR. ROISMAN: I'm not asking whether you hold  
19    that opinion on the substantive issue, I'm just asking  
20    whether in your mind if that were a fact, that the reason  
21    why the procedure got interpreted the way it got  
22    interpreted was because there was an innate inclination  
23    built into the management attitude of the plant to look for  
24    the minimum amount of regulatory control, is that the kind  
25    of answer, if it is true, that you would expect to find in



1 a root cause investigation when you say to the utility,  
2 find the root cause?

3 MR. CHANDLER: We're straying again.

4 MR. ROISMAN: We're right in the words of the  
5 SSER. The purpose of the meeting is to discuss the meaning  
6 of the words in the SSER and I'm looking at words on J-44  
7 which he read which include the word "root causes." If  
8 you're not happy with the stipulation it is too late to  
9 change them.

10 MR. CHANDLER: I would like to stick with the  
11 stipulations.

12 MR. ROISMAN: It appears in paragraph F on page  
13 J-44.

14 MR. CALVO: In this case, you're trying to  
15 generalize. In this particular case, the hypothetical  
16 situation that you are setting up does not apply to this  
17 particular case because I was aware of the problems with  
18 the interpretation of the regulations as reflected in the  
19 procedures in the internal memoranda. So in this  
20 particular case, that hypothetical situation that you are  
21 trying to establish does not apply. That would be my  
22 answer. If you're trying to say "what would you do," I  
23 don't know.

24 If I happened to know that that was the case,  
25 that I had printed as an allegation, I would have to look

1 further into it. You see, in this particular case the  
2 hypothetical situation does not apply because I happen to  
3 know the root cause of that problem, so in essence I'm  
4 asking the utility if I'm going to review their report and  
5 evaluation of their root cause, I'm expecting to know what  
6 the root cause is for the particular case.

7 If you read the hypothetical situation, if I  
8 happen to know that that's the reason for it, then I need  
9 more information to reach a conclusion. I cannot accept  
10 that face value. I got to dig into it and reach a  
11 conclusion and give you an opinion.

12 MR. ROISMAN: My question was, did that fact  
13 exist, was that kind of information, would that fit -- if  
14 it were true, would that fit what you call the root cause?  
15 Is that the type of thing which could be a root cause?

16 MR. CALVO: Again, I'm not trying to evade the  
17 question. You're getting me outside the purpose of my  
18 review, that is, to look at the quality of the installation.  
19 You bring me to a different level that I have not had an  
20 opportunity to think about what I would do in those  
21 circumstances.

22 MR. IPPOLITO: Using his typical example, he's  
23 clearly indicating that you sense or smell or feel a degree  
24 of improper action. What you normally would do is to say  
25 this feels like it is something that's wrongdoing, bring it

1 to my attention or Vince's attention. It then might be  
2 referred to OI to look into.

3 MR. CALVO: You can go further than that. If  
4 the situation is there, it wouldn't come to me because the  
5 way the system was set up that had been taken care of. I'm  
6 here nice and clean, looking at the quality of the  
7 installation. It will never reach my level because I only  
8 look at the technical merits of the allegation, not if  
9 there was wrongdoing. That's somebody else's  
10 responsibility on that level.

11 MR. ROISMAN: Let me ask Mr. Ippolito a question.  
12 Is it your understanding that to the extent that the root  
13 cause of a particular problem when traced all the way back  
14 was that management had an attitude about safety that was  
15 not to do what the regulations required down the middle but  
16 to try to get by as cheaply as possible, that if that were  
17 the root cause, that that's a root cause which would be of  
18 interest and the investigation would be being done at OI  
19 and not by the technical review team at all?

20 MR. IPPOLITO: You are coming at it rather  
21 strangely. We went out and looked at a number of  
22 allegations. Some were proven to be correct. We asked the  
23 licensee, go and determine the root cause. We expect it.  
24 Were they not 5054 floaters?

25 MR. CHANDLER: I don't think so.

1 MR. IPPOLITO: We expect them to do exactly that,  
2 find the root cause. If the root cause happens to be that  
3 someone in their organization did something that he wasn't  
4 supposed to, I expect to know about it or the NRC should  
5 expect to know about it. We are not defining root cause.  
6 We're not limiting it. They have to go find out what's  
7 wrong, to our, the Staff's satisfaction.

8 MR. CALVO: If you take the technical input,  
9 whatever the determination was made, and combine those  
10 together, if you find out that it is valid, that wrongdoing,  
11 then yes, for the sake of the discussion, that should be  
12 considered the root cause, but I'm saying within my scope,  
13 the only questions I'm prepared to give you a truth answer  
14 for is those I'm familiar with and those are only related  
15 to technical merits.

16 MR. ROISMAN: So in other words, your own  
17 capabilities, your own competence really stops at the point  
18 that the root cause stops being completely confined in the  
19 technical area and enters the more non-technical area of  
20 management attitude or harassment, intimidation, or  
21 falsification of documents or any of those kinds. It is  
22 telling me, I can tell you what failed, but I can't tell  
23 you if you are talking about -- and why it failed  
24 technically, but I can't tell you why it failed if you talk  
25 about human failure.

1 MR. CALVO: What was the underlying allegation  
2 to come to me to evaluate the technical merits? Whatever  
3 happened here, that part didn't come to me. The merits  
4 only come to me. That has been the general rule. I'm sure  
5 I had followed the thing up, maybe I don't know if it is to  
6 the point that I got involved into the area. That could  
7 have been a mistake. That wasn't the intention. That was  
8 the way we perceive ourselves to do the job, just the  
9 technical merits.

10 MR. IPPOLITO: I'm assuming what you say by that  
11 question, if Jose was doing an inspection and found or  
12 suspected there was something wrong, in other words a  
13 deliberate falsification or what have you, is that what  
14 you're saying?

15 MR. ROISMAN: No, I'm assuming he has no  
16 particular suspicions. I'm saying if you take any of the  
17 examples as they actually appear in SSER 7, you can  
18 postulate the possibility that the reason, the real reason  
19 why the condition existed was something that goes back to,  
20 for lack of a better term, management attitude, an approach  
21 to safety that was different, and what I'm understanding  
22 Mr. Calvo as saying is, if that's true, the scope of his  
23 investigation stops before he would ever know that answer.

24 MR. CALVO: But also provides an input for  
25 somebody else's decision, that conclusion.

1 MR. ROISMAN: Okay.

2 MS. GARDE: Mr. Calvo, I would like to continue  
3 this line of questioning with a specific example. Let's  
4 take allegation number AQE-1. On page J-19 the  
5 characterization of the allegation is that an electrical  
6 inspector was pressured not to write nonconformance reports  
7 in several instances. In one case the QC supervisor  
8 instructed him not to write an NCR for control room cables  
9 removed out of proper documentation. Now, let me ask a  
10 preliminary question. There are a number of words that to  
11 me flag wrongdoing. Was there referral of this allegation  
12 to OI? Is there anything in here — I read through the  
13 allegation disposition. It doesn't say anything about that.

14 MR. NOONAN: We made sure anything that should  
15 be referred to OI was referred to OI. Everything in this  
16 SSER that might involve OI work, that's my knowledge.

17 MS. VIETTI-COOK: Can I input to this? When we  
18 first pulled these allegations together, the way that we  
19 did it was we asked OI, give us all the OI reports that you  
20 have done to date. Dick Wessman and I reviewed those OI  
21 reports, and they had completed their work. OI had  
22 completed their work as far as wrongdoing was concerned.  
23 We looked at it from the technical standpoint. What could  
24 this mean to the plant? What could what OI hasn't covered  
25 mean to this plant? And we looked at it from a technical



1 standpoint and that's a big bulk of the allegations that  
2 came from OI reports.

3 MS. GARDE: This may have in fact come from an  
4 OI report.

5 MS. VIETTI-COOK: I can tell you it did.

6 MR. CALVO: The intimidation panel on a search  
7 for the conclusions went through the allegations and  
8 contacted every group leader and determined where was the  
9 technical merits of that allegation.

10 MS. GARDE: When did you and Dick do that? When  
11 did you do that review of the OI reports?

12 MS. VIETTI-COOK: Prior to the technical review  
13 team being joined together. This was the very beginning.  
14 When we compiled the list of allegations we read OI reports.  
15 We looked at prior region 44 inspection reports, hearing  
16 records --

17 MS. GARDE: This is before you got to the site  
18 in July?

19 MS. VIETTI-COOK: Right, and we put together  
20 files that put maybe pages of the transcripts in the file  
21 that gave them, you know, the words of what the allegation  
22 was.

23 MR. NOONAN: Since the SSER has been written,  
24 where the Staff might have said this has been turned over  
25 to OI, I made sure it had been. We have gone through that

1 process.

2 MS. GARDE: In theory at least, all these  
3 technical allegations that have wrongdoing flag words in  
4 them, if you will, there should be a conclusion and a  
5 response by OI on the wrongdoing issue?

6 MR. NOONAN: In general, the OI report should  
7 address that issue. Did we miss some? Probably.

8 MR. IPPOLITO: Wait a minute. There either has  
9 or there is, is what they are saying.

10 MS. GARDE: Has been or will be or is now, but I  
11 haven't seen it?

12 MR. IPPOLITO: Right.

13 MR. ROISMAN: Mr. Noonan, when you get the  
14 report back from OI, if OI reports back and says, yes, this  
15 person was pressured, it is correct, there was wrongdoing,  
16 does that get fed back into a determination of how the root  
17 cause investigation is supposed to take place?

18 MR. NOONAN: The way the process should work, if  
19 that determination is made by OI, depending on where it  
20 sits, it would go back to the technical group. If it  
21 hasn't been incorporated into the program plan, it will be,  
22 by some mechanism.

23 MR. ROISMAN: You mean to make sure that the  
24 look for root causes and for generic implications now takes  
25 into account at least one of the deficiencies that

1 Mr. Calvo had determined technically had merit, now appears  
2 to have been caused at least at one level by pressure as  
3 opposed to caused by bad training or an inspector who was  
4 an asleep or some other cause system.

5 MS. COOK: But the bulk of these, OI had already  
6 done their work. Then we picked up the technical part of  
7 what they had already done. When we found something that  
8 OI maybe hadn't done yet, we turned that over to them.

9 MS. GARDE: Now if you turn to page J-49. You  
10 find that AQE-1 becomes part of a large category of  
11 allegations detailed on that page. Your resolution of  
12 these allegations and what you did to determine whether or  
13 not there was validity, safety significance, generic  
14 implications is then supposedly detailed on this page,  
15 right, on these pages?

16 MR. CALVO: Let me explain a little bit. If you  
17 look at the table, I did a little different than maybe  
18 everybody else, but it will give you an idea to understand  
19 how these allegations work. J-19 gives you the allegations  
20 and give you the categories and sometimes one number before  
21 the other number. The category with the allegation is in  
22 the first number to your left. As the allegation has other  
23 ramifications to other areas, other categories, I put it in  
24 the next number to the right.

25 So AQE-1 only looks like it is addressed to

1 category number 5 but keep in mind this is nonconformance  
2 reports. This is just a quick look, a limited look at some  
3 of the implications of the nonconformance with the  
4 electrical installing, but mostly for the purpose to relate  
5 it back to support up the installation itself. As you see  
6 at the end, this is terminated that -- wait until you see  
7 what the QA/QC has done before an overall conclusion is  
8 reached on nonconformance.

9 So in that context you must look at AQE-1.  
10 Based on what they say, I could not do very much with it.  
11 It is very general, very global and doesn't tell me exactly  
12 what to look for.

13 MS. GARDE: Let me stop you there. I would like  
14 a specific answer if you can give one. If you can't just  
15 because you can't remember, just clarify that. In this  
16 case, either did you or would you have gone back and talked  
17 to this electrical QC inspector? Would you have  
18 interviewed him to determine what more details he could  
19 give you about that allegation?

20 MR. CALVO: I tried. I can not give you a  
21 specific. I tried to talk to everyone who came up with an  
22 allegation. I tried to talk to everybody about the  
23 foundation of these allegations. If it was available and  
24 they were willing, yes, I would ask them, not only do I  
25 talk to him to tell me more about it, but when I write the

1 SSERs I say this is what I did with the allegations. It  
2 has to do with, in essence, if I'm to give credit to an  
3 AQE-1 allegor, a lot of this will be found in the  
4 electrical, you may have contributed to some of the things  
5 we found because it could have been anyone.

6 Maybe we found NCRs wrong, maybe it was because  
7 of what this person said in here. If we go through most of  
8 them, probably some of the things we found for one also may  
9 apply to this one, so it is very difficult because of the  
10 generalization of the allegation whether you had answered  
11 or talked to him, we did try to talk to everybody.

12 MS. VIETTI-COOK: Were you referring to AQE-41?

13 MR. CALVO: AQE-1.

14 MR. NOONAN: Let's take a 10-minute break.

15 (Recess.)

16 MR. NOONAN: Let's go back on the record.

17 MR. CALVO: I want to say something for the  
18 record. You asked me a question. We had contacted the  
19 allegers responsible for AQE-1. We tried to contact him on  
20 January 29, 1985 and were unable to contact him. That's  
21 all the information that I had.

22 MS. GARDE: Okay, I'm going to continue on page  
23 J-49 for a couple of minutes. We were talking about AQE-1  
24 as an example of the process that you followed in making  
25 certain decisions and evaluations. Now, the list of the

1       allegations that are in item number 4, I assume coordinate  
2       with the numbers that are given in item number 2. Is that  
3       a correct assumption? These allegations as listed will  
4       match with the numbers?

5               MR. CALVO: Right, right.

6               MS. GARDE: When you go into the description of  
7       how you responded to all of these various allegations,  
8       which were characterized as the validity of the generation  
9       and disposition of electrical nonconformance reports was  
10      suspect. That's how you characterize all these different  
11      allegations. You indicate you pulled a random sample of 75  
12      electrical NCRs and conducted numerous interviews with QA  
13      and QC engineering personnel. When I go to the documents  
14      which hopefully will be made available, will the 75  
15      electrical NCRs and notes of your interviews be in that  
16      material?

17              MR. CALVO: I don't know offhand. Sometimes we  
18      did keep the NCRs. Sometimes we just went to the vault,  
19      would look at the NCRs and put them back and didn't make  
20      copies of them. Sometimes we don't note it.

21              MS. GARDE: You may or may not be able to  
22      reconstruct what you looked at to form the basis of your  
23      opinion.

24              MR. CALVO: Offhand, I don't know, okay?

25              MS. GARDE: Also says that you reviewed 25 of



1 the 75 NCRs to determine if the QC inspectors who closed  
2 out the NCRs were qualified to do so. How did you go about  
3 doing that? How did you look at their qualifications?

4 MR. CALVO: In essence the same as what we did  
5 in the electrical instrumentation number 6, but again we  
6 were trying to handle this particular allegation. I  
7 believe these particular allegations are coupled with the  
8 other categories in the SSER. I was trying to find out  
9 AQE-4, if that was coupled with something else. Only  
10 belongs to this one so it was not coupled to that one, but  
11 we conducted this because the same person who did this did  
12 the QC inspection certification for the 25 cases, but keep  
13 in mind, I don't know what your interest in this is, goes  
14 back to the conclusion where AQE-6 is all extensive. We  
15 required that all the electrical QC inspectors' files be  
16 assessed and the impact on plant safety will be determined,  
17 so we have to be revisiting this, regardless of the outcome  
18 of the 25.

19 MS. GARDE: You mean that the QA/QC --

20 MR. CALVO: Not in this case. In this case I  
21 didn't pass it to the QA/QC. In this case we kept it -- we  
22 set forth actions based on the electrical QC inspector,  
23 highlighted generic implications to others. That will be  
24 forwarded and addressed in the QC training.

25 MS. GARDE: You are jumping a little bit ahead.

1 It looks to me as if this was not referred to the QA/QC.

2 MR. CALVO: I agree, but the subject matter is  
3 the same as what I'm saying. Maybe it has not been  
4 referred but the subject matter is the same.

5 MS. GARDE: The subject matter is referred to  
6 QA/QC?

7 MR. CALVO: AQE-4 is characterized by the  
8 closing out of NCRs by qualified inspectors. I'm saying,  
9 the technical review team found that in all 25 cases, the  
10 QC electrical inspectors were qualified. Their  
11 certification files were current AQE-4. In the 25 out of  
12 the 75 cases we selected -- but again that problem doesn't  
13 go away because we made a conclusion. You still have the  
14 overall conclusion of the electrical and inspection  
15 qualifications, training and qualifications where we make a  
16 more far reaching conclusion where yes, you have problems  
17 with them. So you say here we miss it because we selected  
18 25, but here we caught it, and the conclusion is that you  
19 must ascertain the quality, the qualifications and training  
20 of all QC electrical inspectors irregardless of where they  
21 found it.

22 MS. GARDE: How does that resolve the question  
23 raised in AQE-1, that an electrical inspector was pressured  
24 not to write nonconformance reports in several instances?  
25 How does resolving AQE-4 --

1 MR. CALVO: That's not.

2 MS. GARDE: Okay, according to the chart in  
3 appendix P, AQE-1, -2, -3 are not referred, and there's a  
4 lot of them that are not, but that is not referred to QA/QC.

5 MR. CALVO: Everything in this allegation  
6 category, not the individual allegations, the whole  
7 electrical nonconformance activities, I refer to QA/QC.  
8 Look on page J-53.

9 MS. GARDE: The whole category is?

10 MR. CALVO: Regardless of what the fund was.

11 MS. GARDE: When you referred this whole  
12 category to the QA/QC part of the technical review team, is  
13 it your understanding that they would come to understand  
14 why this happened?

15 MR. CALVO: No, to pick up the conclusions in  
16 the findings and couple it with -- arrive at a  
17 programmatic assessment. That also is coupled eventually  
18 with B, so if you look on 53, really, you have the QC  
19 inspection, category C, QA/QC, that's how the whole  
20 electrical was done. In fact, in most cases, because it  
21 was just a little input to the overall programmatic, input  
22 from the mechanical and the electrical, and the QA/QC would  
23 put that together and come up with the overall conclusions.

24 MS. GARDE: I want to repeat what we think you  
25 are saying.

1 MR. ROISMAN: Whatever extent the AQE number 1  
2 is investigated, it is investigated either in an OI report  
3 or it is investigated in your evaluation, and there's no  
4 further investigation of it that you are aware of that's  
5 done by the Staff, but the conclusions of those  
6 investigations are passed on to QA/QC for SSER 11 to  
7 determine what, if any, broader implication should be drawn  
8 from what we have already found out to have yet another  
9 investigation; is that correct?

10 MR. CALVO: That's correct.

11 MS. GARDE: Let's go back, then, to the  
12 beginning.

13 MR. NOONAN: You understand now when you talk  
14 about the OI things, that I am in the process of looking to  
15 make sure that anything in the SSER, we thought there was  
16 an OI action that indeed was communicated to OI and that  
17 process is ongoing. That's not part of the technical  
18 review team.

19 MR. ROISMAN: Is there supposed to be a place  
20 where all that will be ultimately drawn together? Let's  
21 say you find 15 percent of the items that OI had previously  
22 looked at, you now think in light of what Mr. Calvo and the  
23 other people did that they ought to look again, and you ask  
24 them to look, and they complete that and all the other  
25 ongoing looks and there are a whole bunch of conclusions

1 from that. Is there a place where all that gets fed back  
2 into some future SSER or will each stand by themselves to  
3 be evaluated, not in some single Staff document?

4 MR. NOONAN: Talking about the technical parts?

5 MR. ROISMAN: The consequences of the OI look at  
6 wrongdoing.

7 MR. NOONAN: That's a separate office. I can't  
8 really say. When their results come out, I think right now  
9 all that I'm aware of -- hang on a second.

10 (Discussion off the record.)

11 MR. NOONAN: There are only a few reports that  
12 are not out now, so the technical review team probably had  
13 access to that kind of information. Is there a single  
14 point that it comes together? I don't know yet. I don't  
15 know.

16 MR. ROISMAN: The question was, how does the  
17 technical review team -- or let's deal with the past. How  
18 did the technical review team integrate into any  
19 conclusions that are reached in the SSERs prior  
20 determinations made by OI, beyond looking at any technical  
21 problems OI may have identified that you have not  
22 previously looked at, and let's say OI concluded that this  
23 person got harassed and intimidated by this person. Was  
24 that integrated into --

25 MR. NOONAN: Not in the technical review team,

1 no.

2 MR. ROISMAN: Just stands for use by the  
3 licensing board or any party to the proceeding for whatever  
4 purpose they want to make of it, not in something that the  
5 technical review team is supposed to do?

6 MR. NOONAN: That's correct.

7 MR. IPPOLITO: Excuse me, I have to add to this.  
8 The normal functions, or the normal interface rather  
9 between OI and the program officers, particularly NRR, is  
10 that a suspicion or allegation of wrongdoings is provided  
11 to OI usually through the regional administrator or through  
12 Dirks. He performs -- OI performs an evaluation and  
13 submits a report to the -- my recollection is to the  
14 applicable regional administrator -- Bill Dirks and I think  
15 there are three copies. Anyway, if the conclusion of the  
16 OI report is that there is wrongdoing is confirmed, it now  
17 becomes a matter for INE or the region to take action  
18 against the licensee and/or the person who does the  
19 wrongdoing. That's the wrongdoing part, enforcement action.

20 MR. NOONAN: I'm referring to the technical  
21 review team now.

22 MR. IPPOLITO: That's the wrongdoing end of it,  
23 handled through enforcement actions. What we have done,  
24 and since the -- as Annette said, there was a large number  
25 OI reports, 10, 12, done when we first came aboard and we



1 extracted from those reports the technical part of it, so  
2 the total picture is being resolved. There have been some  
3 enforcement actions resulting from OI reports from the  
4 technical things that have now been addressed in the  
5 technical review team reports. There's nothing left that's  
6 not done.

7 MR. ROISMAN: That's only if you use what  
8 appears to be the operating assumption that you're using,  
9 which is that wrongdoing is always limited to whatever OI  
10 finds someone did wrong and there's never a generic  
11 implication of wrongdoing. What you're saying is that you  
12 never assume a generic implication to a wrongdoing finding.  
13 You never assume that anything else in the wrongdoing  
14 example that OI confirmed has affected any other part of  
15 the plant; is that right?

16 MR. IPPOLITO: The wrong -- no, no. The  
17 wrongdoing itself -- and that's what you determine, a  
18 degree of the enforcement action. If it is pervasive you  
19 will see a large enforcement action and it will be so  
20 written up and so cited and they will be so fined.

21 MR. ROISMAN: But the scope of the wrongdoing is  
22 limited by the allegation that the OI people are looking at.

23 MR. IPPOLITO: Whatever it takes to identify  
24 that there is wrongdoing at the site. It all depends on  
25 what the item is.

1 MR. ROISMAN: What I'm trying to understand is  
2 when you were incorporating into the original technical  
3 review team the results of OI investigations, some of which  
4 had findings of wrongdoing and proposed fines were issued  
5 or are still outstanding with regard to that, the technical  
6 review team did not use those as generic implication  
7 indications to define the scope of how far you would look  
8 to see how bad the problem was.

9 MR. NOONAN: Let me interrupt here a second.  
10 I'll take an example. If there was a wrongdoing finding by  
11 OI that says a QA inspector falsified records, it would be  
12 our responsibility to see what that QA inspector did to  
13 find out how that work was affected. That's what the  
14 process calls for. That's what we're doing.

15 MR. ROISMAN: What do you do with a finding that  
16 the inspector was harassed by a high level supervisor? Do  
17 you look at all the people that high level supervisor  
18 supervised to determine whether their work was also  
19 affected?

20 MR. NOONAN: Our process calls for us to look at  
21 the quality of that plant. How was the quality of that  
22 plant affected by that intimidation. That's what the  
23 process calls for us to do.

24 MR. SHAO: The question is, how did you handle  
25 the OI findings on Messrs. Dunham and Atcheson?

1 MR. NOONAN: I can't remember Dunham. I think  
2 you need to ask the particular group leader.

3 MR. ROISMAN: And Mr. Atcheson?

4 MR. NOONAN: Mr. Shao. He would look at those  
5 particular allegations, technically.

6 MR. ROISMAN: Both those gentlemen are public.  
7 We can speak without fear.

8 MR. CHANDLER: We have made commitments to  
9 various individuals not to disclose their names,  
10 irrespective with the arrangement you have with them.

11 MR. NOONAN: I do have at least verbal promises  
12 we would not use people's names.

13 FROM THE FLOOR: Can we strike the names from  
14 the transcript?

15 MR. CHANDLER: Off the record.

16 (Discussion off the record.)

17 MS. GARDE: I'm not going to ask anymore  
18 questions on AQE-1. Let's go back to the beginning. I'm  
19 still on the first sentence on J-4. We got up through  
20 potential generic implications. The next phrase is "any  
21 indication of potential management breakdown." Now, how  
22 did you determine that, whether there was indication of  
23 potential management breakdown?

24 MR. CALVO: I think I based -- I don't remember  
25 that I addressed that subject, but I believe that the SSER

1 actions provided an input to the QA/QC to factor this into  
2 the overall programmatic assessment. There is nothing in  
3 here that addresses the potential management breakdown. It  
4 is just the technical output, the conclusions and the  
5 findings in the referral to the QA/QC for further looking  
6 into which may presumably address the management breakdown.

7 MS. GARDE: Mr. Calvo, on page 11 and 12, J-11  
8 and 12, you have the scope of concerns and allegations by  
9 category, and category 6 on page J-12 is management  
10 attitude.

11 MR. CALVO: You're getting into the area of the  
12 test program, group summary, and I was not the group leader  
13 for that particular review.

14 MS. GARDE: Who was?

15 MR. CALVO: Keimig was responsible. Richard  
16 Keimig.

17 MS. GARDE: Is he region 4?

18 MR. CALVO: Region 1.

19 MR. CHANDLER: I think it was our understanding  
20 that you didn't have questions in this area.

21 MS. GARDE: No.

22 MR. CHANDLER: Misunderstanding?

23 MS. GARDE: We asked for someone who was in  
24 charge of each SSER and we thought that they would be able  
25 to answer the questions contained in that SSER.

1 MR. NOONAN: Let's go off the record.

2 (Discussion off the record.)

3 MS. GARDE: Any indications of potential  
4 management breakdown, to the extent of your work in SSER 7,  
5 will have been kicked over to QA/QC?

6 MR. CALVO: That's correct.

7 MS. GARDE: Did you make conclusions on  
8 management breakdown and give Mr. Livermore your opinions  
9 on where you saw potential management breakdown from your  
10 SSER, or did you just give him the conclusions of your  
11 individual inspections and investigations?

12 MR. CALVO: No, I don't believe I had done that,  
13 because it would have been a limited conclusion based on a  
14 very limited review I had done with the electrical  
15 allegations so it was hard to see how I reached that  
16 conclusion based on the investigations I did.

17 MS. GARDE: You relied on Mr. Livermore to reach  
18 conclusions on potential management breakdown based on your  
19 factual findings?

20 MR. CALVO: When you read potential management  
21 breakdown on this SSER number 1, I think the review  
22 methodology may be applicable to all of them and may not be  
23 applicable to me because of the limited scope of the  
24 allegation. Whether he has done it or not, SSER number 1,  
25 that subject is addressed in there, if I remember.

1 MS. GARDE: Page J-8, under 3.1.3, the second  
2 paragraph, do you see that?

3 MR. CALVO: Yes.

4 MS. GARDE: You say that "The generic  
5 implications of the findings and the root cause of each  
6 situation as appropriate are also presented." Now, when  
7 did you -- is it through this document that you are sending  
8 your conclusions to the applicant?

9 MR. CALVO: That's correct.

10 MS. GARDE: Okay, and before this there was the  
11 letter, which I think was the September 18 letter.

12 MR. CALVO: Also brings up the subject the root  
13 causes and generic implications to the applicant.

14 MS. GARDE: Now the bottom paragraph of this  
15 page gives a list of concerns raised by allegations which  
16 either could not be substantiated or have no safety  
17 significance with respect to the items identified. We  
18 discussed before the definition of "substantiated." We've  
19 talked about safety significance. You had a clarifier on  
20 the end of this which says "with respect to the items  
21 identified." Now --

22 MR. CALVO: Talking about the last paragraph on  
23 page 8?

24 MS. GARDE: Yes.

25 MR. CALVO: That's right.



1 MS. GARDE: Let me take, for example, regarding  
2 the installation of electrical cables. You had an  
3 allegation regarding installation of electrical cables. I  
4 think there may have been more than one in that area.

5 MR. CALVO: Yes. Go ahead.

6 MS. GARDE: If your conclusion was that there  
7 was no safety significance, was it limited only to those  
8 items that you specifically look at there that are  
9 identified in the SSER?

10 MR. CALVO: That's correct. And also to  
11 whatever generic umbrella we put around them. Everything  
12 is limited to the allegations and the umbrella we put  
13 around them.

14 MS. GARDE: The size of the umbrella should be  
15 in this and supported by documents?

16 MR. CALVO: That's correct.

17 MR. ROISMAN: On page J-9 at the end of the  
18 first paragraph, you indicate that the E&I group concludes  
19 that there are concerns about the adequacy of TUEC's, at  
20 the end of the first paragraph. The same statement appears  
21 at the end of the third paragraph. Now, just so we will  
22 know, are all the bases for that conclusion contained in or  
23 referenced in this SSER?

24 MR. CALVO: That's correct.

25 MR. ROISMAN: Did you make any determination not

1 revealed in the SSER as to why these inadequacies in the QC  
2 inspection program existed?

3 MR. CALVO: No. Again, my review scope is to  
4 assess the quality of the electrical installation as  
5 defined by the allegations in the umbrella provided to  
6 establish generic implications. If we found deficiencies  
7 in those areas, we referred the matter to the QA/QC group  
8 for further look into the programmatic consequences of it;  
9 so all this in here, all he does is summarize in each  
10 category of SSERs Jose's -- this is another input for QA/QC  
11 for them to reach the overall assessment.

12 MR. ROISMAN: At the bottom of J-9, you do offer  
13 your own at least tentative generic implication finding  
14 with respect to the inadequate qualification of some  
15 electrical QC inspectors; right.

16 MR. CALVO: That's correct, but I'm also  
17 referring to QA/QC category 4, training and qualifications.

18 MR. ROISMAN: So sometimes when it seemed to be  
19 fairly obvious that there was a programmatic or generic  
20 implication, you did not feel constrained and were  
21 perfectly willing to say so, even though you were then  
22 going to leave the final word to the QA/QC people?

23 MR. CALVO: That's correct.

24 MR. ROISMAN: You were not attempting to, in  
25 reaching that conclusion, define the scope of what the

1 generic failure might be nor the scope of what the root  
2 cause might be.

3 MR. CALVO: Agreed.

4 MR. ROISMAN: What you tried to do in the SSER  
5 is wherever you had enough information that you felt like  
6 you could articulate an opinion that would be useful, you  
7 gave it.

8 MR. CALVO: That's right.

9 MR. ROISMAN: If you didn't think you had enough  
10 and your mandate didn't call for you to get that additional  
11 information you referred it over to somebody else and said,  
12 you find out what the generic implication of this might be.  
13 I don't have an opinion.

14 MR. CALVO: This is my findings, couple it with  
15 yours and you come up with an overall assessment. That was  
16 the way the technical groups were coupled with the QA/QC  
17 group. That's the way it was.

18 MR. NOONAN: I would like to clarify something.  
19 You are hearing Staff say this appears in the QA/QC SSER or  
20 it has been turned over to QA/QC. The process we went  
21 through, the information that Jose would have had that we  
22 would call QA/QC implications was given to Livermore to see  
23 whether or not they might affect his conclusions, not that  
24 he would go in and reinvestigate anything at this point in  
25 time. They were there to see what impact they would have

1 on the work he did and his conclusions and to tabulate them  
2 in the SSER. That would be given to the applicant and the  
3 applicant told to address these things.

4 MR. ROISMAN: I can assume tomorrow when we get  
5 to Mr. Livermore, your answer that you take the conclusions  
6 from the other SSERs at face value without independent  
7 assessment, the answer will be yes, I took them at face  
8 value without independently investigating that?

9 MR. LIVERMORE: Ask me that tomorrow.

10 MR. ROISMAN: Mr. Calvo, on page J-10, the next  
11 to last paragraph, you have this statement: "The E&I group  
12 conclusion that the problems found with electrical cable  
13 terminations, electrical equipment separation and control  
14 room ceiling fixture supports, together with the findings  
15 concerning inadequate training and qualification of  
16 electrical QC inspectors are an indication of programmatic  
17 weakness in QC." First question: What does the phrase  
18 "programmatic weakness" in QC mean? What are you meaning  
19 to convey with that statement?

20 MR. CALVO: Okay, "programmatic" indicates that  
21 it may be -- that based on the concerns highlighted by the  
22 allegations, appears as an indication that it may be some  
23 problems, maybe not only with these things that we found  
24 wrong; maybe there are some others that may also be wrong,  
25 so he may cut on the wide access.

1 MR. ROISMAN: Are you suggesting that by the use  
2 of the term "programmatic" that they could appear in every  
3 part of QC where those kinds of considerations would be  
4 relevant?

5 MR. CALVO: I'm trying to remember what I did  
6 mean by putting that in there. It indicated that in  
7 essence the electrical system in my opinion did not have a  
8 clean bill of health yet but looks like further looking into  
9 these areas and the implications in other areas more would  
10 be ascertained to determine whether the concerns  
11 highlighted by the allegations are isolated cases or they  
12 cascaded into the other areas. I'm not saying that it is,  
13 I'm not saying that it is not. I'm saying it is an  
14 indication of it. The question is that we need an answer  
15 to find out how far-reaching it is. That's what I mean.

16 MR. ROISMAN: Did you form any opinions or do  
17 you have any now as to what the process is that would have  
18 to be undertaken to answer the question which you are in  
19 effect posing by that statement?

20 MR. CALVO: Every SSER in each category provides  
21 certain actions. Those actions, how those actions are  
22 going to be accomplished and the feedback resulting from  
23 those actions will give the Staff a clue whether this  
24 statement can be supported or not supported. We have not  
25 gone quite far enough. We raised the flag at this point.

1 Those actions, the implementation of those actions will  
2 determine whether this is just an isolated case given by  
3 the allegations or it has more far-reaching, you know,  
4 far-reaching --

5 MR. ROISMAN: In this document you have  
6 recommended what courses of action you think need to be  
7 taken.

8 MR. CALVO: That's correct.

9 MR. ROISMAN: Can you direct me to those that  
10 you think are the ones that particularly need to be taken  
11 in order to answer this concern?

12 MR. CALVO: I guess you can look at each item if  
13 you want it. I guess the one that seems to be -- we can go  
14 to page 31. I guess we found some problems with the  
15 terminal locks and we want to take and -- we have to  
16 evaluate and find out which other problems are in the area;  
17 and if we found other problems in addition to those we are  
18 building this case, and we go back to Number 2 and got some  
19 problems in here with butt splices. And I guess the butt  
20 splices brings another concern; the question is how many  
21 more of those things do you have? If it is limited, the  
22 action by the applicant indicated that it is only limited  
23 to those areas in the control panel where we found the butt  
24 splices, we found additional splices in the cable traces,  
25 that will have far-reaching ramifications.



1           So the actions are taken, you build your case into  
2           the programmatic problems where you have more problems than  
3           was expressed in the SSER or are you going to stop there.  
4           We're trying to establish whether it is an isolated case  
5           that goes down deep instead of wide.

6           MR. ROISMAN: Looking on J-31 as illustrative,  
7           at 6 E, is there someplace else where you have articulated  
8           what your criteria are for the applicants to evaluate the  
9           adequacy of the QC inspection program to establish root  
10          causes and appropriate corrective actions? Is that  
11          documented somewhere?

12          FROM THE FLOOR: J-35.

13          MR. CALVO: The documentation, I'm sorry, where  
14          set forth the criteria we would like the applicant to  
15          follow to establish root causes -- no, there's no criteria  
16          that I believe that we formulated. In the SSER as well as  
17          our letters prior to the SSER we used those general terms;  
18          and again, we are waiting for the applicant's response and  
19          when that response comes, we are in the process of  
20          reviewing it and will determine whether this has been  
21          properly covered. But there was no criteria that I know of  
22          at least in the electrical SSERs, and I don't believe in  
23          the others, that set forth that criteria for establishing  
24          how you should go look into root causes, whether you should  
25          consider the technical merits or other aspects.

1           MR. ROISMAN: When you use these causes, did you  
2 have in your head -- as you told me earlier about one of  
3 the root causes; that you already had a pretty good idea  
4 what you thought the root cause was, you were going to see  
5 if they found it -- did you have a good idea as to item 6-C,  
6 how you wanted them to go about establishing root causes?

7           MR. CALVO: If I give you my opinion, more or  
8 less is result-oriented. I'm not asking somebody, if I  
9 found a problem, like in this problem of butt splices or  
10 cable separation -- two concerns that were highlighted more  
11 often than any other in the electrical systems -- I just  
12 pinpoint the problem area, and if I want to know whether  
13 this particular area becomes just like a little pimple or a  
14 cancer I want the applicant to look further into it. If he  
15 finds further problems in the plant, the results, if he  
16 finds problems with separation or butt splices, again the  
17 case has been built.

18           Maybe it is not only with this area that the  
19 technical review team has identified; you have it in other  
20 areas of the plant, and then maybe you can couple the  
21 things up and you establish, find out why it was that kind  
22 of a problem, and maybe you concluded after you finish that  
23 you may have to go further because it appears what you did  
24 here may also cut across other disciplines.

25           The point in question, you asked me before how

1 you reached in some cases your root causes. Because I have  
2 enough information to reach that conclusion with the  
3 electrical QC training and qualifications. There was  
4 enough supporting information that we reached that  
5 conclusion of possible problems of certification with the  
6 records. How you go from there to the others, it was a  
7 possibility that it may be also a problem in the other  
8 disciplines, but you don't know until you check the other  
9 disciplines and compare with the results in those  
10 disciplines also. Cast the same kind of doubt that the QC  
11 electrical qualifications and training files was discovered  
12 by the technical review team.

13 MR. ROISMAN: Was it your intent here that a  
14 root cause investigation could be foreshortened or  
15 eliminated if at an early stage it was determined that the  
16 particular deficiencies were no longer safety-related?

17 MR. CALVO: Say that again.

18 MR. ROISMAN: If in the applicant's  
19 investigation, looking at the items on J-31, if their  
20 investigation determined that all of the identified  
21 deficiencies were in areas which can now be reclassified as  
22 not safety-related, in effect, backfitting engineering  
23 judgment says not safety-related, if that conclusion can be  
24 reached, was it your understanding that no root cause  
25 needed to be found?

1 MR. CALVO: Again, all depends on the situation.  
2 If I know that, like I said before, we considered the  
3 allegations nonsafety-related allegations but we say, the  
4 reason it was provided to us was nonsafety-related but used  
5 safety-related procedures to identify safety-related piece  
6 of equipment we want to be sure that didn't precipitate into  
7 a safety-related area.

8 So the combination of the nonsafety-related and  
9 you didn't find it with the safety-related, you reach the  
10 conclusion that you don't need to go further. If the  
11 allegation indicates it was truly safety-related I think we  
12 would have gone a little further to ascertain, a little  
13 farther down the way. Depends again on the situation.  
14 Depends upon the concern. The area.

15 But keep in mind that at the end, it is not the  
16 individual contribution. It is the integral approach, all  
17 the things combined, that come forward and tell you what  
18 was the root cause. Whatever you learn from the electrical,  
19 the mechanical, you can couple those things back and forth;  
20 and the integrated approach for all this cumulative  
21 findings, whether they are good or bad or in between, that  
22 will give you was there a root cause there or was there not  
23 a root cause.

24 MR. ROISMAN: Was your understanding then that  
25 this search for the root cause was an iterative process in

1 which you would make preliminary root cause conclusions in  
2 order to define the next level of look which might require  
3 you to then redefine and move on until you knew you had it  
4 on?

5 MR. CALVO: You asked for my opinion. Yes, that  
6 would have been my opinion.

7 MR. ROISMAN: Now, in going back to J-10 and  
8 this portion of the paragraph that we're looking at, where  
9 would you direct me to find, if it is in that document, the  
10 bases for your conclusion that there was an indication of  
11 programmatic weakness in QC?

12 MR. CALVO: On page J-10.

13 MR. ROISMAN: Says "The group concludes the  
14 problems found with this together are an indication of  
15 programmatic weakness in QC." I know where to find the  
16 conclusions for each of those. I'm looking for, is there a  
17 place where I would find the basis for your belief that  
18 given that those problems are found in those areas, there  
19 is an indication of programmatic weakness in QC?

20 MR. CALVO: There is not stated as such, but it  
21 is my judgment as I finish that review that I come to that  
22 conclusion. From the standpoint of safety, it was a safety  
23 conclusion. I felt that we found enough things in there  
24 that I feel comfortable enough that my review was  
25 far-reaching that I felt another look should be taken at it,

1 and this is reflected in all the actions. I felt that we  
2 should go a little further than we had.

3 MR. ROISMAN: Did you consult with your staff  
4 with regard to that conclusion?

5 MR. CALVO: Not in a direct way, but just a  
6 routine basis: Every day we set up the goals, if we find  
7 problems, where to look next, et cetera. So we were  
8 looking for these problems in installation we were looking  
9 for maybe it was generic implications. It was reflected in  
10 the way we did it.

11 MR. ROISMAN: Do you feel this part of the  
12 conclusion is essentially a consensus from those of you who  
13 worked on the electrical, or is this Jose Calvo relying on  
14 that underlying information without the concurrence?

15 MR. CALVO: I guess I would say it is mine.

16 MR. ROISMAN: Now, I want you in particular  
17 looking now at section 3.1.4, overall assessment and  
18 conclusions, how did this part of the report get written,  
19 and to what review, if any, was it subjected and how much  
20 of what we see here are your words and how much are  
21 somebody else's?

22 MR. CALVO: This was identical to my words, and  
23 there was quite a discussion on those words. But my words  
24 prevailed at the end, so it was not changed for all  
25 practical purposes.



1 MR. ROISMAN: Was this discussed among your team?

2 MR. CALVO: No, it was only another team member  
3 that came late that we discussed -- only two of us  
4 discussed this. We finished earlier. They promised me if  
5 I finished the Comanche Peak review they would let me go,  
6 but they broke the promise anyway, so we didn't quite  
7 finish earlier in the tour, and so it was mainly me and  
8 somebody else who -- and Angelo Marinos helped me put this  
9 together. When we had problems we called the the  
10 consultants over the telephone and discussed them. Asked  
11 them for their concurrence in each of the SSERs. So these  
12 reflect our thoughts, ideas, conclusions. It was not  
13 changed.

14 MR. ROISMAN: As you know, we will get, although  
15 we don't yet have, the drafts, if any, of this SSER.

16 MR. CALVO: For the SSERs. This is the summary.  
17 That was done by me and Mr. Marinos.

18 MR. ROISMAN: This essentially, if it is there  
19 in earlier versions -- the earlier versions are yours, the  
20 medium and the last version is yours?

21 MR. CALVO: That's correct.

22 MR. ROISMAN: Is there a portion of this SSER  
23 which was not put together that way, with it essentially  
24 being your words and not anybody else's; and if so, can you  
25 identify that?

1           MR. CALVO: All the SSERs, 1 through 9, we had a  
2 reviewer, and I was the group leader, so the initial drafts  
3 were done by the reviewer and I just approved them and  
4 participated in writing those things up in connection with  
5 what was required by the project. The technical merits,  
6 the findings, what happened, the flavor has not changed but  
7 the raw material was always there.

8           MR. ROISMAN: We don't have one in front of us  
9 so maybe I should wait for another day. If you can offhand  
10 take me to one and illustrate one where the reviewer had  
11 some words, and then those words, although in your judgment  
12 the substance stayed the same, the words changed.

13          MR. CALVO: I don't know if they are available  
14 or not. I don't have it with me.

15          MR. ROISMAN: The draft?

16          MR. CALVO: The draft. But we have in the  
17 record or it will be in the record the signature by the  
18 reviewer, the group leader, the director of the SSERs  
19 before they were put into this book.

20          MS. VIETTI-COOK: I understand the letter was  
21 sent from the freedom of information branch to you on  
22 Friday, so the information was dumped into the PDR on  
23 Friday for electrical. It just went in.

24          MR. CALVO: You have drafts signed by the  
25 reviewers that made up this report.

1 MS. GARDE: I don't have it yet. I got a call  
2 saying the electrical stuff was coming down to the PDR but  
3 I don't have that yet.

4 MR. ROISMAN: We had earlier boxes on structural  
5 but we don't have the drafts.

6 At the top of J-15, under the general title  
7 "actions required at TUEC," is it your understanding that --

8 MR. CALVO: Hold on. That's -- if you go back  
9 to page J-11 you're talking about the test program again  
10 and that's outside -- the man who did that is not here  
11 today. It is the same as you were asking before. Item 4,  
12 that refers back to -- I'm sorry, the heading. I take that  
13 back.

14 MR. ROISMAN: I'm still trying to deal with the  
15 generic thing. I understand that that person is not here.  
16 Is it your understanding that the total of the -- that the  
17 way in which TUEC is responding to this recommendation is  
18 to come to you within the confines of the CPRT?

19 MR. CALVO: Correct.

20 MR. ROISMAN: You were not expecting and as far  
21 as you know have not gotten some independent response to  
22 this that does fit within the confines of the CPRT?

23 MR. CALVO: Say that again. I'm sorry.

24 MR. ROISMAN: I'm trying to understand where you  
25 are expecting to find that TUEC will be responding within

1 the context of the CPRT.

2 MR. CALVO: That's correct.

3 MR. ROISMAN: Turning to page J-16, under  
4 electrical equipment separation, did you in the course of  
5 your evaluation draw any conclusions about the applicant's  
6 compliance with the NRC's requirements regarding the use of  
7 covered cable traces as substitutes for conduit covering of  
8 electrical cables, and whether the separation between  
9 covered cable traces could be the same one inch that was  
10 allowed by NRC regulations for electrical cable to  
11 redundant trains running through conduit?

12 MR. CALVO: The criteria governing the  
13 separation is contained in IEEE 384, as augmented by reg  
14 I-1.75. That criteria is set forth that physical  
15 dimensions on redundant systems must be separated, but it  
16 also provides -- also accepts analysis as a way around  
17 physical dimensions. We found out that that there was some  
18 disagreement between the electrical specifications ES-100  
19 and this criteria contained in the IEEE 384; however,  
20 analysis could have been substituted to justify the  
21 physical dimensions we don't have to apply in this case.  
22 We would advise, and we found out that analysis has been on  
23 the files. However, we indicated that analysis had not  
24 been submitted to the Nuclear Regulatory Commission. We  
25 indicated they did not so we requested as one of our

1 actions for them to provide the analysis to the Nuclear  
2 Regulatory Commission for review. That will determine  
3 whether the analysis substantiates the fact that if the  
4 analysis can substantiate through fire testing that this is  
5 adequate, then the analysis will supersede the physical  
6 dimensions, so that is an action item.

7 MR. ROISMAN: It is yet to be done? You did not  
8 complete work on it?

9 MR. CALVO: We substantiated the allegation, we  
10 agreed with it. We're trying to find out whether at the  
11 time it was sufficient to justify the fact that you don't  
12 have to substantiate the physical separation.

13 MR. ROISMAN: Did you say the analyses were not  
14 in existence?

15 MR. CALVO: Were in existence at the time we  
16 looked at it.

17 MR. ROISMAN: Did you make an effort to  
18 determine whether they had been in existence at the time  
19 that ES-100 was promulgated?

20 MR. CALVO: No, but I'm not quite sure but I  
21 think the record will indicate the dates, but our  
22 augmentation to support this allegation in here -- I don't  
23 recall. Again, I was looking again at the work product, I  
24 was not concerned with the history, how it got there.

25 MR. ROISMAN: When we look at the underlying

1 documentation of work that went into the SSER, how much  
2 will we find in there that will show us, for instance, I  
3 just want to be clear, I know Ms. Garde asked you this  
4 earlier, I wanted to make sure I understood the answer.  
5 How much will we know, if you say we looked at 75 NCRs,  
6 which ones you looked at; will you have recorded the number  
7 even if you don't have a copy in the file?

8 MR. CALVO: In the majority of the cases, we did,  
9 but in the particular case you were asking me I was not  
10 quite sure. In the majority of the cases -- as a matter of  
11 fact, when you go to the public document room and get those  
12 SSERs signed by the reviewer, it is also a reference in  
13 there, and from those references, the NCRs are listed. A  
14 decision was made when this was published not to include  
15 the references.

16 MR. ROISMAN: As I understand it, the auditable  
17 trail should make it possible for us to determine what you  
18 looked at if we want to try to understand what you were  
19 seeing, and therefore what you had as a basis for your --

20 MR. CALVO: I hope so or I'm in trouble.

21 MR. ROISMAN: And it is auditable, not audible.  
22 We're not looking for a tape of what you did?

23 MR. CALVO: Maybe both.

24 MR. NOONAN: Let's break about five minutes.

25 (Recess.)



1 MR. NOONAN: Back on the record.

2 MR. ROISMAN: Mr. Calvo, is it correct that to  
3 the extent that you have referred implications of the  
4 various findings that you have made in SSER 7 to  
5 Mr. Livermore, that it was your intent and understanding  
6 that he would be responsible for evaluating the  
7 implications of those findings, generic or determining if  
8 it was appropriate root causes or whatever, and that that  
9 burden was not yours?

10 MR. CALVO: No, those were provided to the QA/QC  
11 group as input. What they did with them is whatever the  
12 group leader decided, whether he looked into the root  
13 causes, that was his decision. It was no clear lines of  
14 demarcation what they were going to do. It was his choice.

15 MR. ROISMAN: It would have been possible and  
16 not inconsistent with your understanding that a finding you  
17 made in which you said there was an indication of  
18 programmatic weakness in QC would end up with Mr. Livermore  
19 and he would do nothing with it?

20 MR. CALVO: It is possible, but the proof of the  
21 pudding is SSER number 11, and we all looked at it and we  
22 all commented on it and were aware that our concerns were  
23 covered in there.

24 MR. ROISMAN: Were there any conclusions reached  
25 in there regarding electrical and instrumentation control

1 matters that you did not agree with, that you do not agree  
2 with?

3 MR. CALVO: I don't think so. There was mostly  
4 programmatic and QA/QC problems. There was nothing in here  
5 that impacted what I had done in electrical. They were  
6 looking at the paperwork, looking at the hardware. Insofar  
7 as I know, had I read it, I may have some comments on it;  
8 but insofar as anything he has that invalidated what he has  
9 done, I don't remember that I found any of those.

10 MR. MC CRACKEN: We're ready to go on to SSER  
11 number 9. Thank you, Mr. Calvo.

12 MR. ROISMAN: Mr. McCracken, can you just tell  
13 us who you are regularly employed by when not working on  
14 this Comanche Peak technical review team? Are you a  
15 full-time NRC Staff employee? Which region, or  
16 headquarters, all that sort of stuff?

17 MR. MC CRACKEN: I'm full-time employed at NRR.  
18 At the time I was working on this particular effort, I was  
19 the section chief of the chemical and corrosion technology  
20 section in the chemical engineering branch of NRR.

21 MR. ROISMAN: Have you been involved with the  
22 paint coatings issue here since the formation of the  
23 technical review team?

24 MR. MC CRACKEN: No.

25 MR. ROISMAN: When did you get involved?

1 MR. MC CRACKEN: I picked up the technical  
2 review team function in, as I recall, early November of '84.

3 MR. ROISMAN: Who was your predecessor?

4 MR. MC CRACKEN: Phil Matthews. When the  
5 technical review team was formed, I would normally  
6 functionally have taken over that particular area, but I  
7 was tied up in another project rather full-time, so Phil  
8 Matthews, who had been my predecessor in the job that I had  
9 at the time, he was requested by me to take over this job,  
10 and he agreed that he would do so, and pending me being  
11 released or getting enough work done on the other project  
12 that I could then take it over at some point.

13 MR. ROISMAN: Did you have no involvement with  
14 supervising his work from that period of, I guess, around  
15 May until early November of '84?

16 MR. MC CRACKEN: No, I didn't supervise his work  
17 at all. I was aware of what he did. We had discussions  
18 periodically. When he had a site visit he would always  
19 come back and spend time talking to me about what he had  
20 done and what was going on, because I knew eventually I  
21 would pick it up, but I did not supervise him or tell him  
22 what to do.

23 MR. ROISMAN: Given that timing, is it correct  
24 that the bulk of the on-site investigation and the  
25 interviews with the allegeders and the sort of gathering of

1 the raw data was done under his supervision rather than  
2 under yours?

3 MR. MC CRACKEN: The gathering of the raw data  
4 and the interviews with alleged on site were conducted  
5 under him. The feedback interviews with people after the  
6 work had been completed was done by me.

7 MR. ROISMAN: This SSER has essentially got two  
8 appendices to it. The first, correct me if I'm wrong,  
9 essentially deals with the applicant's request for an  
10 exemption of the paint coatings for post-accident  
11 performance and qualification of paint coatings, and the  
12 second appendix deals with deficiencies found in the  
13 application of paint coatings during the time the paint  
14 coatings were safety-related and had certain safety-related  
15 requirements; is that correct? Do I understand this?

16 MR. MC CRACKEN: Not quite. Appendix L is a  
17 function that was performed through the normal NRC chain of  
18 command normal offices. It was not a technical review team  
19 function. That's the first one you referenced. The second  
20 one, which is appendix M, does not only deal with  
21 deficiencies, it deals with our evaluation of the  
22 allegations and of the overall coating system at Comanche  
23 Peak.

24 MR. ROISMAN: But L is the one where the Staff  
25 has set forth the basis for its conclusion regarding the

1 paint coatings exemption request of the applicant's; is  
2 that right?

3 MR. MC CRACKEN: L is the one where the  
4 applicant's request to remove coatings from the Q list was  
5 evaluated.

6 MR. ROISMAN: Was that also done under your  
7 supervision, that evaluation?

8 MR. MC CRACKEN: That evaluation was ongoing,  
9 and had not been completed until about the time the  
10 technical review team evaluation was completed. At the end,  
11 I directly supervised the pulling together of both of them.

12 MR. ROISMAN: But there's somebody else, then,  
13 who made the investigation and the final substantive  
14 conclusions that are contained in appendix L, not yourself;  
15 is that correct?

16 MR. MC CRACKEN: The contributors to appendix L  
17 are listed on page 1-3. That includes, as I recall,  
18 approximately 12 or 14 various staff members. They  
19 provided their individual inputs to me. I then pulled them  
20 together in a total safety evaluation report.

21 MR. ROISMAN: Well, as I read this, it appears  
22 that you didn't author these words that are in appendix L,  
23 that they did. When you say you pulled the two together,  
24 they are two entirely different and separate appendices.

25 MR. MC CRACKEN: I was talking about appendix L

1 only right now. The people listed as contributors are  
2 listed on 1-3. They provided the inputs to me, and I  
3 pulled them together.

4 MR. ROISMAN: The judgments are theirs, not  
5 yours?

6 MR. MC CRACKEN: That's correct. However, in my  
7 function as section chief of that section which had the  
8 responsibility for that, I signed off on the overall  
9 appendix L, which means I concur with and agree with their  
10 judgments.

11 MR. ROISMAN: That's because you rely on what  
12 they did, not because you independently verified it.

13 MR. MC CRACKEN: That's not correct. I did go  
14 and independently verify a lot of what they did.

15 MR. ROISMAN: What didn't you verify?

16 MR. MC CRACKEN: I can't give you a simple  
17 answer to that. I did not accept, as I typically do not  
18 accept, any product at face value. I at least look into it.  
19 How much I did look into or how much I questioned, I can't  
20 tell you.

21 MR. ROISMAN: Was there a team leader among the  
22 contributors to appendix L?

23 MR. MC CRACKEN: No.

24 MR. ROISMAN: Who decided which tasks each  
25 person would undertake?



1           MR. MC CRACKEN: The review of appendix L was  
2 initiated, as I recall, in June of '84. Typically, when  
3 something like that comes in, the licensing project manager  
4 will inform each of the affected branches, the branches  
5 that he feels would be involved in that particular  
6 evaluation. Those branches will then assign individuals  
7 who will go and hear what's said. It is up to them to then  
8 put in their individual inputs to safety evaluation, which  
9 is then compiled within the division licensing by the  
10 project manager.

11           MR. ROISMAN: Who decided which people would  
12 work on appendix L questions?

13           MR. MC CRACKEN: That's decided by their own  
14 management, their various divisions, engineering, systems  
15 integration, so on.

16           MR. ROISMAN: Who decided which divisions to  
17 bring into the appendix L evaluation?

18           MR. MC CRACKEN: The project manager. That was  
19 at the time, I think, Spots Burwell.

20           MR. ROISMAN: Were any of the people in appendix  
21 L people who worked under your supervision?

22           MR. MC CRACKEN: The last one listed, Frank Witt,  
23 W-i-t-t.

24           MR. ROISMAN: I take it that the position that  
25 you hold normally, not your role in the technical review

1 team or in this SSER, it would not normally be the  
2 responsibility of your division or the thing that you are  
3 in charge of to decide the question that appendix L seeks  
4 to decide; is that correct? It is somebody else's  
5 responsibility?

6 MR. MC CRACKEN: That's incorrect. My normal  
7 function would have been to decide the question asked by  
8 appendix L. That would have been coordinated through me  
9 because it is a section which comes under chemical  
10 engineering and specifically chemical technology, therefore  
11 it would have been my function normally to do so. As I  
12 said, I was assigned full-time on another project at the  
13 time this particular effort came in, both appendix L and  
14 appendix M. There was -- the L part was initiated by Frank  
15 Witt, who is in my section, in my absence from that  
16 particular function.

17 MR. ROISMAN: I take it that the nature of the  
18 kinds of issues that appendix L raises, a substantial part  
19 of what's involved there are issues that would not normally  
20 fall within the expertise of the people who work under you,  
21 they relate to post-accident environment conditions and  
22 water flow and things of that nature that are not directly  
23 related to coatings. Is that correct?

24 MR. MC CRACKEN: The chemical engineering branch  
25 is responsible for a lot of areas in the post-accident.

1 containment area. The survivability of coatings and  
2 knowing what those environments are that coatings have to  
3 survive under by necessity fall into chemical engineering.

4 MR. ROISMAN: You take input as to what those  
5 post-accident inputs will be rather than making independent  
6 judgments as to what the post-accident temperature will be  
7 or how much iodine you'll have in the environment; is that  
8 not correct?

9 MR. MC CRACKEN: That's not necessarily correct.  
10 In some cases, we take independent input from other  
11 individuals. In some cases we do it ourselves. Part of  
12 our function is looking at the environmental conditions in  
13 containment after an accident.

14 MR. ROISMAN: Looking at them or deciding what  
15 they are?

16 MR. MC CRACKEN: Looking at them to decide what  
17 they could be based on in different accident scenarios.

18 MR. CHANDLER: It is unclear to me that appendix  
19 L is something really within the ambit, I think, of the  
20 agreement between Staff and Citizens Association for Sound  
21 Energy as far as this informal meeting is concerned. I  
22 don't know how far you intend to pursue it.

23 MR. ROISMAN: I'm happy to focus on appendix M  
24 as long as you understand that Citizens Association for  
25 Sound Energy in Docket 1 will not have yet had a chance to

1 explore in detail the basis for the exemption requirement.

2 MR. CHANDLER: I understand that, and that's why  
3 I have not interjected at this point. The technical review  
4 team effort, as Mr. McCracken indicated, is appendix M.

5 MR. ROISMAN: I'm happy to limit it to that, but  
6 I want to make sure it is within the body of the SSER. I  
7 have one question as to the interrelationship. Is there  
8 any extent to which the conclusions reached in appendix M  
9 were influenced, either during the course of their  
10 development or in the final version, by any assumptions  
11 about whether paint coatings would ultimately be found to  
12 be Q or not Q for this plant?

13 MR. MC CRACKEN: No.

14 MR. ROISMAN: You treated whatever was  
15 originally deemed to be a safety-related requirement for  
16 paint coatings in making safety-related paint coatings  
17 evaluations; is that correct?

18 MR. MC CRACKEN: Yes.

19 MR. ROISMAN: Can you explain to me the role of  
20 the Battell — I'm sorry, Brookhaven, in evaluating the  
21 paint coatings issue as it fit into what the technical  
22 review team has finally done in appendix M?

23 MR. MC CRACKEN: The Brookhaven role, I think,  
24 is discussed in category 1 of appendix M, specifically  
25 starting on page M-24 and M-25, where we go through the

1 background of the backfit test program and the scope.

2 Brookhaven was on site before the technical  
3 review team was formed. They were working for the region  
4 in that particular case. They had done some preliminary  
5 investigation themselves, had issued a preliminary report,  
6 and when the technical review team was formed, we picked up  
7 on what they had done. We took the allegations that they  
8 had listed and worked basically from those allegations.

9 MR. ROISMAN: But my question in particular was,  
10 as originally formulated, there was not only to have been  
11 an interim report but actually Battelle was to have had a  
12 final report, and as I understand it -- Brookhaven, excuse  
13 me -- and that the creation of the technical review team  
14 superseded that responsibility for Brookhaven; is that  
15 correct?

16 MR. MC CRACKEN: Yes.

17 MR. ROISMAN: Why was that done?

18 MR. MC CRACKEN: You have to ask somebody in  
19 management that issue.

20 MR. ROISMAN: Is Mr. Ippolito qualified? He's  
21 about to give an answer, and I didn't know whether that  
22 meant that he was in management or not. I don't know --

23 MR. NOONAN: Hang on a second. Let me ask.

24 (Discussion off the record.)

25 MR. IPPOLITO: It was just -- the review of the



1 adequacy of the paint coatings was, as McCracken identifies,  
2 was an ongoing review initiated by region 4 who was using  
3 Brookhaven as their consultants to review the adequacy of  
4 the coating, the coating procedures, coating QA/QC. When I  
5 took over, I said, fine, we'll make that a team within the  
6 technical review team, and we took over the contract and  
7 assigned an NRR team leader to it and we made sure that the  
8 allegations that relate to the coatings were all included  
9 in their review, and proceeded down that path.

10 MR. ROISMAN: As I understand it, the final  
11 conclusions that are contained in appendix M, to the extent  
12 that they are conclusions that were preliminarily  
13 investigated by Brookhaven, are not Brookhaven conclusions,  
14 they are conclusions by the technical review team; is that  
15 correct?

16 MR. IPPOLITO: At that point in time,  
17 Brookhaven's responsibilities changed and they became  
18 consultants just like Parameter provides consultants to the  
19 technical review team and a number of other companies.  
20 They became a consultant for the technical review team  
21 working for the technical review team team leader and were  
22 redirected at that point.

23 MR. ROISMAN: Did they issue a final report to  
24 the technical review team which then formed a part of the  
25 basis for appendix M?



1 MR. IPPOLITO: No.

2 MR. ROISMAN: How would we document Brookhaven's  
3 further input into the technical review team if there's not  
4 a final report from them? Mr. McCracken?

5 MR. MC CRACKEN: The Brookhaven people who  
6 remained involved were contributors to the various  
7 categories in the back of appendix M, which is attachment 2  
8 to it. The names of those individuals are listed upon page  
9 1-3, again with their various affiliations.

10 MS. VIETTI-COOK: Instead of reporting to  
11 region 4 they reported to Phil Matthews as technical review  
12 team team leader.

13 MR. MC CRACKEN: Yes.

14 MR. ROISMAN: But when they were reporting to  
15 region 4 they issued an interim report and when they  
16 reported to Phil Matthews there's no document that they  
17 signed and sent to represent their final conclusions on  
18 this; is that correct? So in that sense they changed their  
19 role.

20 MR. IPPOLITO: That's exactly what I said.

21 MR. MC CRACKEN: The role changed for the  
22 sections, the categories that they were responsible for in  
23 appendix M, they signed them. Those were transmitted to us  
24 and signed by them.

25 MR. ROISMAN: If I want to see what is their

1 final report all I need is a road map of which of the  
2 sections they authored within appendix M, and that will be  
3 the Battelle output -- I'm sorry, Brookhaven. Sorry. Is  
4 that correct?

5 MR. MC CRACKEN: Yes.

6 MS. VIETTI-COOK: There would be an SSER like it  
7 is in there with their signature at the bottom. It would  
8 be the identical one with their signature.

9 MR. ROISMAN: Did they actually author those  
10 sections or did they just concur in someone else's  
11 authoring them?

12 MR. MC CRACKEN: They authored them. The  
13 signature package you're looking for will list the author  
14 and myself and Vince Noonan.

15 MR. ROISMAN: In the paint coatings documents,  
16 when we finally see them, we will see these Brookhaven  
17 identifiable --

18 (Discussion off the record.)

19 MR. ROISMAN: Then, except to the extent that  
20 Brookhaven became part of a bigger evaluation, they  
21 completed the work that they originally agreed to do with  
22 region 4, and rather than having their work changed, either  
23 narrowed, broadened or in some other way altered; is that  
24 correct?

25 MR. MC CRACKEN: You said they completed the

1 work they were originally contracted for in region 4?

2 MR. ROISMAN: That's correct.

3 MR. MC CRACKEN: I don't think so. I think Tom  
4 said the scope of what they were going to do was altered so  
5 they did not complete what they originally contracted for  
6 from region 4. The contract scope was changed when they  
7 were secunded to the total technical review team effort.

8 MR. ROISMAN: Scope was narrowed or broadened?

9 MR. IPPOLITO: Broadened to include all of the  
10 allegations that we were able to identify in this coatings  
11 area, any new allegations that came along.

12 MR. ROISMAN: Did they become de facto the  
13 principal authors of appendix M in terms of the real input  
14 into appendix M?

15 MR. MC CRACKEN: No, they were contributors.  
16 They contributed to some of the categories of appendix M,  
17 but everybody was working as a team. There are seven  
18 categories, individuals were assigned as the lead on  
19 certain categories, but nobody was the principal author  
20 other than the individual assigned to the lead on that  
21 category.

22 MR. ROISMAN: Let's go to M-3. Under the  
23 category 2.2, review approach and methodology, at the  
24 bottom of the page, there's a discussion -- at the end of  
25 each two-week session you updated the concern allegation

1 tracking system to reflect the status, et cetera, of each  
2 concern or allegation as well as any new ones that had been  
3 added. What was your procedure with regard to new ones  
4 that were added while this investigation was still open?  
5 Did you add them to your then current investigation list?

6 MR. MC CRACKEN: New ones that were added  
7 through the time that the technical review team was on the  
8 site would be added to one of the seven categories that  
9 were originally established. If one came in on training,  
10 it would go into the training category and the individual  
11 doing training would then have that to do as part of his  
12 normal function.

13 MR. ROISMAN: What if the allegation were one  
14 that came to your attention subsequent to the time that you  
15 were on site during the on-site phase? How was that dealt  
16 with?

17 MR. MC CRACKEN: Subsequent to the on-site phase  
18 there was only one instance where someone came to me and  
19 discussed an additional potential allegation in the  
20 coatings area. I would guess that was sometime around  
21 February or so of this year. That particular allegation  
22 was very close to other allegations that we had looked at.

23 MR. ROISMAN: And --

24 MR. MC CRACKEN: And I didn't add it to the list.

25 MR. ROISMAN: On page M-4, you discuss daily

1 meetings during which progress was assessed and the like.  
2 I take it these are meetings among the people working on  
3 appendix M only?

4 MR. MC CRACKEN: Yes.

5 MR. ROISMAN: This was all at a time before you  
6 were personally involved, correct?

7 MR. MC CRACKEN: Yes.

8 MR. ROISMAN: Your understanding is that  
9 everybody was sort of kept up to speed on what everybody  
10 else was finding or doing through this process each day?

11 MR. MC CRACKEN: Yes.

12 MR. ROISMAN: And the Brookhaven people were  
13 part of the group that was on the site during that  
14 investigation?

15 MR. MC CRACKEN: Yes.

16 MR. ROISMAN: As I'm sure you know, there were  
17 lots of allegations of improprieties in the paint coating  
18 area. It was very controversial among QC inspectors. A  
19 lot of people saying, he did this, and other people saying,  
20 he didn't do this. How did you -- how were you able to  
21 determine when you had people telling you diametrically  
22 opposed things which one was telling you the truth? What  
23 did you do to try to find that out?

24 MR. MC CRACKEN: When I picked up the technical  
25 review team function for coatings, I was receiving the

1 initial inputs for the various categories from each of the  
2 individual reviewers. Part of what they provided was a  
3 background package which has then gone into our document  
4 control room or whatever it is called, and that background  
5 package is something I would look through when I looked  
6 through their individual category inputs to see if I  
7 concurred with the conclusions that they were drawing.

8 MR. ROISMAN: What did you do when you had -- if  
9 an inspector who later became an alleged said that a  
10 certain thing had been said to him, and the person who it  
11 was alleged to have said it to him said, I didn't say it to  
12 him, did you have any process by which you could determine  
13 or try to determine who was right?

14 MR. MC CRACKEN: I think you need to look a  
15 little further back in appendix M to see how we handled the  
16 entire area of coatings. On page M-7, we discuss in the  
17 second paragraph that the technical review team protective  
18 coatings group conducted a generic review in each of the  
19 areas, the seven areas that we had defined as having  
20 allegations in. As part of that generic review, we looked  
21 at the specific allegations. We tried to determine in each  
22 case if a specific allegation was substantiated or not. In  
23 some cases like the one you were just, I think,  
24 hypothetically trying to come up with, the answer is if  
25 somebody says somebody did something wrong and that person



1 says, no, I didn't, and there are no other witnesses or  
2 documentation to support it, that would be indeterminate.

3 MS. VIETTI-COOK: I would like to supplement  
4 that. Primarily, OI had completed OI investigations on the  
5 "who shot John" for, you know, the protective coatings area,  
6 and what we did is we provided Brookhaven copies of those  
7 OI reports, and they pulled out what they thought were the  
8 technical allegations from OI reports, but OI did the  
9 groundwork or the, you know, this guy said something and  
10 this guy said something different and tried to sort those  
11 facts out before the technical review team got into it.

12 MR. IPPOLITO: That's right.

13 MR. ROISMAN: I don't know if you have read --  
14 there's a harassment/intimidation panel report that's out  
15 that tries to look at allegations of harassment/intimidation,  
16 and one of them relates to some deal with allegations  
17 related to paint coatings. I want to make sure that I  
18 understand the implications of the statement on page M-8,  
19 the first paragraph beginning with the words: "The  
20 technical review team did not investigate allegations of  
21 concerns or issues of improper management pressure,  
22 intimidation, harassment or wrongdoing."

23 Am I correct that by saying that you did not  
24 investigate them that you also did not look for the  
25 implications for the paint coatings program if they were

1 true or if they were false?

2 MR. MC CRACKEN: No. You are making a broad  
3 statement without using specific examples of what you are  
4 discussing.

5 MR. ROISMAN: Okay, there was an allegation that  
6 a supervisor told the paint coatings inspectors following  
7 an inspection in one of the rooms that he thought was  
8 overly detailed that he would not put up with any  
9 nit-picking and that he would essentially nit-pick the  
10 person off the site, and some of those paint coatings  
11 inspectors who were at that meeting charged that that  
12 incident occurred and that it was an attempt to intimidate  
13 them from doing their job as they saw it.

14 Assuming for a moment that that is subsequently  
15 confirmed by the appropriate offices of the Nuclear  
16 Regulatory Commission, that the event took place, that it  
17 did have the effect of creating an intimidating atmosphere  
18 and that the inspectors who were there could have been  
19 affected by it, what, if any, consideration of that -- of  
20 the existence of that phenomenon is given in the  
21 evaluations of the paint coating program in appendix M?

22 MR. MC CRACKEN: In appendix M, and I forget  
23 right now the particular categories it is discussed in,  
24 that particular incident in that room, the technical review  
25 team went to the room that was discussed and looked at the

1 coatings in that area and tried to make an evaluation as to  
2 whether the coatings in that area were acceptable. As I  
3 recall, that particular room had been subsequent to the  
4 incident you are discussing, was scraped back down and  
5 started over and repainted.

6 MR. ROISMAN: That tells us that you looked to  
7 make sure that the paint coatings in that room were  
8 appropriate. And you found, I take it, from what your  
9 recollection is, that they were.

10 MR. MC CRACKEN: Yes.

11 MR. ROISMAN: But in terms of trying to identify  
12 the extent of failures in the paint coatings QC program,  
13 what, if any, consideration did you give to the facts that  
14 we have just discussed of the events that took place in  
15 that room as having implications for other paint coatings  
16 work that these inspectors were responsible for?

17 MR. MC CRACKEN: Because we did a generic review  
18 in each of the areas of coatings, and any influence or  
19 effect, whether it was due to somebody believing he had  
20 been intimidated or if it was due to poor training was  
21 picked up by the method we used in evaluating the overall  
22 coatings program as opposed to looking at specific  
23 individual allegations.

24 As we state, I believe in the end of category 1,  
25 that 61 of the 62 allegations really accounted for an

1 insignificant amount of the total coatings area because  
2 they were talking about small areas. They were specific  
3 examples of areas a couple of square feet instead of large  
4 areas of coated surfaces. If we had only looked at the  
5 individual allegations instead of doing a broad generic  
6 review of the coatings area, we would have come to a  
7 totally different conclusion, I suspect.

8 MR. ROISMAN: In doing a broad generic review,  
9 you did not go back and reinspect the entire paint coatings  
10 in the plant; is that correct?

11 MR. MC CRACKEN: No.

12 MR. ROISMAN: You made a judgment as to what you  
13 would look at to be able to say that you could make some  
14 generic conclusions about the paint coatings program?

15 MR. MC CRACKEN: Yes.

16 MR. ROISMAN: Where in this document have you  
17 set out the criteria you use for deciding what that  
18 investigation should look like to know that it would be  
19 adequate to draw generic conclusions from it?

20 MR. MC CRACKEN: We did not set out those  
21 criteria in this document. Those determinations were made  
22 by the group of people who were assigned to the TRT who  
23 were put there because of their expertise in this area.

24 MR. ROISMAN: Did they document that? Will I  
25 have to go through the paint coatings documents, assuming

1 that the document was produced, to find a document or group  
2 of documents that will articulate their thinking process?

3 MR. MC CRACKEN: Not to my recollection. You  
4 will find the basic documents which support what is  
5 provided in appendix M.

6 MR. ROISMAN: But not that will support the  
7 nature and scope of the kind of investigation that was done  
8 to reach those conclusions?

9 MR. MC CRACKEN: No, that was based on the  
10 engineering judgment of the people doing the job.

11 MR. ROISMAN: Did you evaluate that engineering  
12 judgment before you signed off on appendix M?

13 MR. MC CRACKEN: I evaluated the input into each  
14 of the seven categories from the individuals involved. I  
15 looked back through a substantial amount of the background  
16 documentation and records that they provided and I  
17 concurred with what they had done.

18 MR. ROISMAN: You independently determined that  
19 you too thought that the scope of their investigation was  
20 adequate to be able to make the generic conclusions?

21 MR. MC CRACKEN: Yes.

22 MR. ROISMAN: Can you tell me what your basis  
23 was for your engineering judgment in that regard? If it is  
24 easier, maybe we could go to one particular place where  
25 instead of reinspecting it all you looked at something less

1 than it all and why you felt that was adequate. I don't  
2 think it is necessary to go through every single piece, but  
3 why don't you give me an illustrative example in your mind?

4 MR. MC CRACKEN: Category 6, which is on page M  
5 117, which discusses the coatings exempt log. If you go to  
6 page M 118 and 119, which discuss the conclusions in  
7 category 6, which is in the coatings exempt log, the  
8 quantity of coatings that appear in the coatings exempt log,  
9 or should be entered into the coatings exempt log as  
10 defined in here, are significantly higher than what we see  
11 reported from other power plants by a margin high enough, a  
12 factor of probably 20, that I considered that sufficient to  
13 substantiate the conclusions that were reached by the  
14 individuals in the other areas.

15 MR. ROISMAN: Now, this is an instance where by  
16 looking at a smaller set of all the possible data, you were  
17 able to reach a negative conclusion. You were able to say,  
18 I now have seen enough to know that there's a problem and I  
19 can now throw, in effect, throw the ball back to them to do  
20 more work rather than my people having to do it. How did  
21 you deal with it where you were reaching a positive  
22 conclusion, where when you took a look based upon your  
23 engineering judgment of how far you had to look, you were  
24 not seeing anything that was negative? Did you  
25 automatically broaden your look further or did that also



1 define the scope of your look and you came to a conclusion  
2 that in this area, the program was okay?

3 MR. MC CRACKEN: In the majority of categories  
4 in coatings, we did find deficiencies. Therefore, the  
5 question you are coming up with really didn't come about  
6 very frequently.

7 MR. ROISMAN: Well, let's look at number 6.  
8 Your understanding of the output that you will get from  
9 TUEC, do you understand that they will reinspect all the  
10 paint coatings that are now in the CEL and give you back a  
11 report that indicates how many of them they think they can  
12 justify as properly being in that CEL?

13 MR. MC CRACKEN: We defined in the seven  
14 categories, areas where the applicant has to go back and  
15 review what they have done. We summarized that on M-13 and  
16 M-14, and it lists four specific actions that they have to  
17 take to go back and define the quality of coatings in some  
18 areas or the amount of coatings that should be in the  
19 coatings exempt log or various other things they have to do  
20 to establish what the status of the coatings are as of  
21 today or tomorrow, whenever they complete that particular  
22 effort.

23 The intent of that is that they have a clear  
24 understanding of which coatings are clearly in the coatings  
25 exempt log so that when they do the inspections that are

1 being required of them through appendix L that they will  
2 have the prime areas to look at.

3 MR. ROISMAN: So at least in this regard, the  
4 conclusions of appendix L regarding the classification of  
5 paint coatings as not Q do impact on the scope of what  
6 appendix M is recommending?

7 MR. MC CRACKEN: The findings in appendix L  
8 impact the actions required of the Applicant.

9 MR. ROISMAN: Right, okay, so to take an example,  
10 if the final conclusion had been that the paint coatings  
11 could not be exempted so that appendix L had come out the  
12 opposite way, would the scope of the action required in  
13 category 6 have had to require a reinspection of all of the  
14 paint coatings contained in the CEL because in your  
15 judgment the basis for putting paint coatings into the CEL  
16 was not sufficiently well defined that their presence in  
17 the exempt log could be used as a justification for not  
18 worrying about them?

19 MR. MC CRACKEN: The amount of coatings in the  
20 coating exempt log were higher, as I said earlier, than we  
21 typically see reported. The appendix L conclusion was that  
22 if all the coatings failed, they would not adversely impact  
23 emergency core cooling systems. If appendix L had not been  
24 able to conclude that all the coatings could have failed, I  
25 believe the next step probably would have been, how much

1 coatings can fail, which would then be, what is in the  
2 coatings exempt log and where is it in relation to sums and  
3 so on.

4 MR. ROISMAN: You might have had a conclusion in  
5 appendix L that enough of the coatings could fail without  
6 having an effect on the emergency core cooling system and  
7 the nature of where they were in the plant that what was on  
8 the coatings exempt log would be, admittedly after the fact,  
9 okay, even though the way it got on the exempt log was not  
10 okay?

11 MR. MC CRACKEN: I don't think I concluded in  
12 too many cases that the way it got on the coatings exempt  
13 log was okay. There were some cases that we felt things  
14 should be on the coatings exempt log that were not, but I  
15 don't think we concluded that anything put on the coatings  
16 exempt log was incorrectly put on there.

17 MR. ROISMAN: Then I need you to explain on M  
18 119 you have a statement, and maybe it is the difference  
19 between calling something indeterminate and making a  
20 conclusion about it, but the next to last paragraph says  
21 "The implication of the 20 percent CEL value is that the  
22 remaining 80 percent of the coatings are of satisfactory  
23 quality. However, such an implication cannot be considered  
24 valid until the resolution of other technical review team  
25 concerns such as assurance of DBA qualifications of

1 coatings and their traceability is reached."

2 Is what you're saying is that the status of the  
3 coatings on the coatings exempt log, unless we get the DBA  
4 exemptions with respect to that is indeterminate and that  
5 there's a problem there? Am I just misreading what you  
6 said?

7 MR. MC CRACKEN: Yes.

8 MR. ROISMAN: Why don't you explain it so I will  
9 understand.

10 MR. MC CRACKEN: What that says is that we are  
11 making a statement that we believe, based on the applicant  
12 doing a few more things, up to 20 percent should be in the  
13 coatings exempt log. That statement is then saying, the  
14 remaining 80 percent of the coatings is not necessarily  
15 qualified, just because it is not in the coatings exempt  
16 log. There are still issues of traceability and DBA  
17 qualification that have to be satisfied before you could  
18 conclude that the other 80 percent was in fact qualified.  
19 We were trying not to let somebody look at the 20 percent  
20 in the exempt log and automatically assume because that's  
21 all we talked about that the other 80 percent was in fact  
22 qualified.

23 MR. ROISMAN: Then maybe it is the preceding  
24 paragraph that concludes that technical review team finds  
25 that this value, meaning the amount of paint coatings in

1 the exempt log, is excessive when compared to other  
2 applicants. What did you mean by that? What are the  
3 implications of saying you think it is excessive?

4 MR. MC CRACKEN: The implication of that is with  
5 an amount of coatings this large in the coatings exempt log,  
6 we would have to assume that that coating would fail under  
7 DBA conditions. Otherwise, it wouldn't be in the exempt  
8 log. With that quantity of coating being assumed to fail,  
9 we would need to have assurances that that coating, if it  
10 failed, would not adversely impact ECCS systems.

11 MR. ROISMAN: In determining the safety  
12 significance of paint coatings, are there safety-related  
13 implications of paint coatings beyond their ability to  
14 remain on the wall in the event of a design basis accident?  
15 Are there other reasons for the coatings being on the pipes  
16 or wherever it might be?

17 MR. MC CRACKEN: There are reasons that you  
18 apply coatings. They are not necessarily safety  
19 significance. The safety significance of coatings is if  
20 you apply them, are they going to stay on and not interfere  
21 with the emergency core cooling systems.

22 MR. ROISMAN: What if they come off in the event  
23 of a design basis accident, and while they don't interfere  
24 with the emergency core cooling system, they do leave  
25 surfaces such that a subsequent clean-up of the plant by

1 employees would create as low as reasonably achievable  
2 problems for the employees cleaning it up? Is that a  
3 safety-related concern of the paint coatings failing?

4 MR. MC CRACKEN: There is not a requirement that  
5 you coat a containment or that you coat certain structures  
6 because of ALARA, A-L-A-R-A, all caps.

7 MR. ROISMAN: Is it specifically excluded or  
8 simply not mentioned?

9 MR. MC CRACKEN: It is mentioned in reg guide 8.8  
10 as a potential benefit to be gained from coatings. To the  
11 best of my knowledge, there has never been a cost benefit  
12 analysis conducted which would show the net gain in coating  
13 versus the amount of additional exposure in going in and  
14 scabbling, s-c-a-b-b-l-i-n-g, concrete for removing any  
15 contamination that may be in there.

16 MR. ROISMAN: I take it one reason why that  
17 would not have been done at least before Comanche Peak was  
18 that before Comanche Peak, all plants for other reasons  
19 already had to have qualified paint coatings in them  
20 because of the design basis accident concern. Is that a  
21 fair assumption?

22 MR. MC CRACKEN: No, that's not a fair  
23 assumption.

24 MR. ROISMAN: Is it known whether or not there  
25 is a cost-benefit balance or analysis that is going to be



1 done on this plant before a final sign-off on paint  
2 coatings?

3 MR. CHANDLER: Are you continuing on L?

4 MR. ROISMAN: No, we're really on M; we're  
5 trying to understand if the items on the exempt logs, the  
6 way the number of those remains on the exempt looking --

7 MR. MC CRACKEN: I didn't understand the  
8 question.

9 MR. ROISMAN: Do you know whether there is a  
10 plan with regard to this plant to do an ALARA cost benefit  
11 balance to determine whether for reasons unrelated to the  
12 design basis accident you must have qualified paint  
13 coatings in the plant?

14 MR. MC CRACKEN: I don't know of any plans or  
15 requests to have such a plan.

16 MR. ROISMAN: What about with respect to  
17 protection from corrosion or rust, are any of those to your  
18 knowledge safety-related reasons for having paint coatings?

19 MR. MC CRACKEN: Not really.

20 MR. ROISMAN: Now on page M-4, at the bottom of  
21 the page, the statement is made, "Based on these reviews  
22 and interviews, the technical review team determined the  
23 validity of each technical concern or allegation and  
24 assessed its safety significance and its potential generic  
25 implications." Was it your intent to look for the generic

1 implications or potential generic implications of what you  
2 found in paint coatings beyond paint coatings?

3 MR. MC CRACKEN: No.

4 MR. ROISMAN: Did you expect that that generic  
5 implication, if any, would be looked at by some part of the  
6 technical review team?

7 MR. MC CRACKEN: When we completed the SSER 9  
8 and with it appendix L and M, we had concluded that  
9 coatings did not have to be qualified. However, because  
10 the coatings were supposed to have been applied as  
11 qualified and that was the way the review was conducted, we  
12 felt that deficiencies that we pointed out in the seven  
13 categories we looked at should not be ignored but should be  
14 considered as a factor in what was done by overall QA/QC.:  
15 Therefore, I discussed those with Herb Livermore, and I  
16 told him that I felt we should transfer the results of our  
17 evaluation, not that he should relook at anything we  
18 already looked at but that he should look at the results,  
19 and if, for instance, in training he found nothing in any  
20 other areas he could say, it was isolated to training -- I  
21 mean the training problem was isolated to coatings. If he  
22 found that it was related to deficiencies in other areas,  
23 he could then use that information in any way that he  
24 needed.

25 MR. ROISMAN: Were you --

1 MR. NOONAN: Off the record.

2 (Discussion off the record.)

3 MR. ROISMAN: In looking for potential generic  
4 implications, were you looking for potential generic  
5 implications within the paint coatings area?

6 MR. MC CRACKEN: Yes.

7 MR. ROISMAN: In addition, you were transferring  
8 over to Mr. Livermore the task of seeing whether there were  
9 generic implications outside paint coatings?

10 MR. MC CRACKEN: Yes.

11 MR. ROISMAN: In looking for potential generic  
12 implications within paint coatings, did you attempt to  
13 answer the question: Why does this problem exist?

14 MR. MC CRACKEN: No.

15 MR. ROISMAN: Explain to me how you could look  
16 at or determine generic implications, if you didn't know  
17 the answer to the question, why did the problems exist.

18 MR. MC CRACKEN: If we found that procedures  
19 were inadequate, whether they were inadequate due to poor  
20 training, poor procedures, or intimidation, that really  
21 would not influence the fact that they were inadequate.  
22 What we had to determine was technically were they or were  
23 they not adequate.

24 MR. ROISMAN: Let's say that you, hypothetically  
25 you had an allegation that the procedures with respect to

1 the application of a particular type of coating were  
2 inadequate. You had an allegor who told you that and said  
3 which kind of procedures they were and said, these  
4 procedures are a mess and no one can work to them, and you  
5 found that the allegor was right, those procedures were  
6 deficient. Did you need at that point any additional data  
7 in order to determine whether there was a generic  
8 implication to that finding that that procedure was  
9 inadequate?

10 MR. MC CRACKEN: We would look at the specific  
11 procedure, the number of revisions that had gone to it,  
12 when they had been in place and try to make an assessment  
13 as to how much coating had been applied or when it was  
14 applied under that specific procedure.

15 MR. ROISMAN: After that, would the generic  
16 implication be totally related to whether one-tenth of 1  
17 percent of the plant had been painted had that procedure  
18 been in effect; is that what you mean when you say "the  
19 generic implication" of it?

20 MR. MC CRACKEN: Yes.

21 MR. ROISMAN: Not the generic implication of  
22 whether or not this procedure was deficient, whether other  
23 procedures might also have been deficient with regard to  
24 paint coating?

25 MR. MC CRACKEN: The number of procedures

1 associated with paints and coatings are not that many.  
2 There are a very specific list of what applies to the  
3 paints and coatings.

4 MR. ROISMAN: But you found that one was  
5 deficient. My question is: How would you know whether  
6 should you find a generic implication that they were all  
7 deficient by looking at only the one?

8 MR. MC CRACKEN: The basic procedures for  
9 applying the coatings, the ones that are used were  
10 referenced in either one or more allegations. So the  
11 coatings procedures that were used with their revisions  
12 were reviewed.

13 MR. ROISMAN: What you are saying, my example  
14 doesn't work because you looked at all the procedures anyway?

15 MR. MC CRACKEN: To the best of my knowledge, we  
16 looked at the procedures associated with applying coatings  
17 throughout the time they were applied.

18 MR. ROISMAN: Well, to save time, why don't you  
19 give me an instance in which you did not look at everything  
20 related to paint coatings but looked at a piece of it and  
21 found that piece deficient and then help me understand how,  
22 if you never got to the reason why the piece was deficient,  
23 you knew that you had found the breadth of the generic  
24 implications.

25 MR. MC CRACKEN: The sampling that we took

1 across the seven categories we considered sufficient to  
2 conclude that the paints and coatings area had difficulties  
3 in virtually all the seven categories; that the amount of  
4 coatings in the exempt log were excessive, so we had  
5 broadened the scope of our review to well beyond any  
6 specific allegation or procedure in making those  
7 conclusions.

8 MR. ROISMAN: Is there any -- if I had asked you  
9 divide the paint coatings area into categories, would there  
10 be any additional categories you would have to put in to  
11 cover all of it than the seven listed on pages 7 and 8 of  
12 the SSER?

13 MR. MC CRACKEN: No, that covers the total area  
14 or things you would consider in applying coatings.

15 MR. ROISMAN: Is it fair to say the total  
16 generic implication of the SSER conclusions is that the  
17 entire paint coatings area was deficient?

18 MR. MC CRACKEN: That the documentation and  
19 traceability that is inadequate to demonstrate that it is  
20 qualified.

21 MR. ROISMAN: So that the entire area is  
22 indeterminant because of traceability documentation  
23 deficiencies.

24 MR. MC CRACKEN: Large areas. We did not go to  
25 the point of trying to determine how much is qualified



1 because once we had concluded in appendix L that it no  
2 longer needed to be qualified, that wasn't a necessary step.  
3 But you could go through and try to determine how much is  
4 qualified.

5 MR. ROISMAN: Why don't we stop there for the  
6 night and start again in the morning. Thank you very much.

7 MR. NOONAN: I have a few things for the record.  
8 Tomorrow Mr. Keimig will be here in the morning.

9 MR. ROISMAN: We can take him after we finish  
10 here.

11 MR. NOONAN: For the record, the applicant has  
12 indicated they do not wish to comment at this time.  
13 Finally, we're going to meet at the Holiday Inn in Bethesda  
14 at 9:00. One block away.

15 (Whereupon, at 5:10, the meeting was concluded,  
16 to reconvene at 9:00 a.m., Wednesday, November 20, 1985.)  
17  
18  
19  
20  
21  
22  
23  
24  
25

CERTIFICATE OF OFFICIAL REPORTER

This is to certify that the attached proceedings before the UNITED STATES NUCLEAR REGULATORY COMMISSION in the matter of:

NAME OF PROCEEDING: MEETING OF NRC STAFF WITH CASE

DOCKET NO.:

PLACE: BETHESDA, MARYLAND

DATE: TUESDAY, NOVEMBER 19, 1985

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

(sig Kathie S. Weller)  
(TYPED)

KATHIE S. WELLER  
Official Reporter  
ACE-FEDERAL REPORTERS, INC.  
Reporter's Affiliation

Recorder

11-19-85

# CASE / NRC MTG

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NRR/DL/CPD

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NRC - REG II

NRC REG IV

NRC REG IV

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NRC / NRR / DL / CPD

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Public Justice

NRC / OELD

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NRC/URR/DST

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NRC/IE

NAC/RTV

SRT/TUGCO/IT CORP

WORTHMAN FORECASTING SERVICES & WORKING

TRT/TUGCO

MORGAN, LEWIS & BOECIUS

Ropes & Gany

TUGCO/NAC, INC.

TUGCO

GIBBS & HILL

SOUTHERN ENGINEERING

CPRT

Spiegel & McDiarmid (Brooklyn, NY)

CPRT/SRT

NRC/NER

TELEPHONE ENG. SERV.

11/19/85

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of  
  
TEXAS UTILITIES ELECTRIC  
COMPANY, et al.  
  
(Comanche Peak Steam Electric  
Station, Units 1 and 2)

Docket Nos. 50-445  
and 50-446

(Application for an  
Operating License)

CASE's (Docket 1) Comments  
to Be Bound into Transcript of  
NRC Staff/CASE Meeting in Bethesda  
November 19 and 20, 1985


CASE (Docket 1) asks that this pleading and the attached 10/23/85 Joint Stipulation of Staff and CASE (Request for Subpoenas) be bound into the transcript of the November 19 and 20 meeting.

As noted in the attached Stipulation, this is to be a joint Docket 1 and 2 meeting and no other similar meeting will be sought by CASE, as to the issues discussed at the meeting, with these staff persons; and CASE's Washington representatives (Mr. Roisman and Ms. Garde) will be asking questions for both dockets. CASE in Docket 1 will rely upon our representatives in Docket 2 to assure themselves that the terms of the Stipulation have been fully met.

CASE also wants to remind the Staff that (as CASE's primary representative in Docket 1 stated during the discussions prior to the 10/23/85 Joint Stipulation), CASE in Docket 1 might want to ask a few additional questions either in writing or informally (although we will not seek any other similar meeting as to the issues discussed at the meeting,

with these staff persons) after we have received, and had time to review,  
the transcript of the November 19-20 meeting.

Respectfully submitted,

  
(Mrs.) Juanita Ellis, President  
CASE (Citizens Association for Sound  
Energy)

1426 S. Polk  
Dallas, Texas 75224  
214/946-9446

Attachment

cc: Service List



October 23, 1985

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

In the Matter of	)	
	)	
TEXAS UTILITIES GENERATING	)	Docket Nos. 50-445-1 & 2
COMPANY, et al.	)	
	)	
(Comanche Peak Steam Electric	)	and 50-446-1 & 2
Station, Units 1 and 2)	)	

JOINT STIPULATION OF STAFF AND CASE  
(Request for Subpoenas)

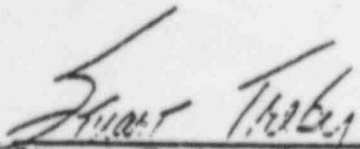
This stipulation is to confirm the agreement that we have reached in regards to CASE's Request for Subpoenas.

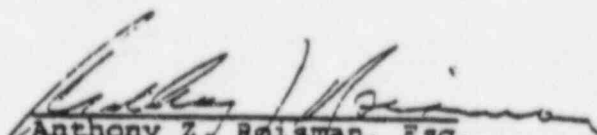
1. CASE agrees to withdraw the pending request for subpoenas.
2. The informal meeting with the staff which had been scheduled for October 21 and 22 will be held November 19 and 20, 1985. The meeting will be held at the NRC's Bethesda offices (time and place to be announced by the staff). The meetings will be open to the public, and will be transcribed.
3. The staff agrees to produce the documents requested in the subpoenas as soon as reasonably practicable. To the extent the documents requested are produced in response to the outstanding FOIA request, such production will fulfill this obligation by the staff.

4. The staff agrees that it will not issue any final approval of the Applicant's CPRT program plan until CASE has conducted the November 19, 20, 1985 meeting and had a reasonable opportunity to forward its comments on the Issue Specific Action Plans.

5. The meeting will be a joint Docket 1 and 2 meeting and no other similar meeting will be sought by CASE, as to the issues discussed at the meeting, with these staff persons. CASE's Washington representatives will be asking questions for both dockets.

6. The arrangements for this meeting do not in any way preclude either the Staff or CASE from asserting their separate positions about other issues now pending before the Board, including the question of whether or not relevancy questions are to be determined by docket or the overall case.

  
Stuart Treby, Esq.  
Nuclear Regulatory Commisison

  
Anthony Z. Reisman, Esq.  
Citizens Association for  
Sound Energy