ORIGINAL

UNITED STATES NUCLEAR REGULATORY COMMISSION

IN THE MATTER OF:

DOCKET NO: STN 50-498-OL STN 50-499-OL

HOUSTON LIGHTING AND POWER COMPANY, et al.

(SOUTH TEXAS PROJECT, Units 1 and 2)

EVIDENTIARY HEARING

LOCATION: HOUSTON, TEXAS

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DATE: FRIDAY, AUGUST 9, 1985

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NATIONWIDE COVERAGE

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2	UNITED STATES OF AMERICA
3	NUCLEAR REGULATORY COMMISSION
4	BEFORE THE ATOMIC SAFETY AND LICENSING BOARD
5	X
6	In the Matter of: : DOCKET NO.
7	HOUSTON LIGHTING AND POWER : STN-50-498-OL
8	COMPANY, ET AL., : STN-50-499-OL
9	(South Texas Project Units 1 & 2) :
10	X
11	University of Houston
12	Teaching Unit II, #215
13	Houston, Texas
14	
15	
16	Friday, 9 August 1985
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18	The hearing in the above-entitled matter was
19	convened, pursuant to adjournment, at 9:10 a.m.,
20	BEFORE:
21	JUDGE CHARLES BECHHOEFER, Chairman,
22	Atomic Safety and Licensing Board.
23	JUDGE JAMES C. LAMB, Member,
24	Atomic Safety and Licensing Board.
25	

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1	JUDGE FREDERICK J. SHON, Member,
2	Atomic Safety and Licensing Board.
3	
4	APPEARANCES :
5	On behalf of the Applicants:
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7	ALVIN GUTTERMAN, Esq.,
8	DONALD J. SILVERMAN, Esq.,
9	STEVEN P. FRANTZ, Esq.,
10	Newman & Holtzinger,
11	Washington, D.C.
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13	On behalf of the Nuclear Regulatory Commission Staff:
14	EDWIN J. REIS, Esq.,
15	ORESTE RUSS PIRFO, Esq.,
16	Office of the Executive Legal Director
17	WILLIAM L. BROWN, Regional Counsel, Region IV.
18	
19	On behalf of the Intervenor:
20	LANNY ALAN SINKIN,
21	3022 Porter St. N.W., #304
22	Washington, D.C. 20008
23	Representative for Citizens Concerned About
24	Nuclear Power.
25	

FRIDAY, AUGUST 9, 1985 CONTENTS WITNESSES: DIRECT CROSS REDIRECT RECROSS BOARD A PANEL CONSISTING OF: } ROBERT G. TAYLOR, } ROBERT F. HEISHMAN, } - 15024 15062 15066 15034 ERIC H. JOHNSON and } GEORGE L. CONSTABLE } FOR ID. IN EVD EXHIBITS: 15025 15032 Applicants' No. 77 15032 15034 Applicants' No. 78

PROCEEDINGS 1 JUDGE BECHHOEFER: Good morning, ladies and 2 gentlemen. Are there preliminary matters this morning? 3 MR. SINKIN: Mr. Chairman, I have a matter but 4 I think I'll wait until after the panel is finished. 5 JUDGE BECHHOEFER: Okay. Anything from the 6 7 other. MR. REIS: Nothing. 8 JUDGE BECHHOEFER: Mr. Sinkin, did you want to 9 ask the panel the one last question or do you want to 10 wait? If it isn't asked by the time it gets back to you, 11 you can ask it. 12 MR. SINKIN: Okay. I'll wait. 13 JUDGE BECHHOEFER: It happens to on my list of 14 questions anyway, so -- Mr. Axelrad Mr. Gutterman. 15 MR. GUTTERMAN: This is my turn. 16 17 CROSS-EXAMINATION 18 By Mr. Gutterman: 19 Q Just trying to clarifyy something from the 20 testimony yesterday, Mr. Johnson. To your knowledge, has 21 22 the NRC ever cited a licensee for failure to report within 24 hours an item which ultimately turned out not 23 to be reportable? 24 A I don't believe they have. And I believe if 25

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there were done, it would have to be withdrawn on 1 2 challenge. MR. GUTTERMAN: Let's see. What exhibit are we 3 up to? Do you know my exhibit number? I believe we're 4 5 up to 77. 6 (Applicants' Exhibit No. 77 7 for identification.) Q (by Mr. Gutterman) Mr. Johnson, I'd like to 8 hand you a document that we've identified as Applicants' 9 Exhibit 77, and what it is is the NRC staff response to 10 licensing board memorandum and order regarding the 11 reportability of Quadrex report. 12 13 MR. GUTTERMAN: I don't have extra copies for the Board and the parties but I believe we all have them. 14 MR. REIS: I don't have it readily available. 15 MR. SINKIN: Which document, the NRC staff --16 MR. REIS: I don't have it available at this 17 18 point. MR. AXELRAD: The document you referred to in 19 your own testimony. 20 MR. GUTTERMAN: I don't want to ask detailed 21 22 questions on it I just want to get the witness to identify it and tie it to his testimony. 23 MR. SINKIN: Could you identify it again, 24 25 please.

1 MR. GUTTERMAN: NRC staff response to licensing board memorandum and order regarding the reportability of 2 the Quadrex report dated August 24, 1984. 3 JUDGE BECHHOEFER: Oh, I have that. It may 4 take me two minutes to get it, but I've got it. 5 6 (Discussion off the record.) (By Mr. Gutterman) The first question I wanted 7 0 8 to ask you, Mr. Johnson, is the document that we've marked as Applicants' Exhibit 77 the document you 9 referred to on page 8 of your testimony in the first full 10 11 paragraph? A (By Mr. Johnson) Yes. 12 Did Region IV participate in the preparation of 13 0 the enclosure? 14 Yes, that was prepared by Region IV. 15 A And does section five of the memorandum which 16 0 begins on page 8 accurately describe --17 MR. SINKIN: Excuse me, Mr. Chairman, I think 18 I'll object to any further questioning on this document. 19 If I remember correctly, the Board said that the Staff's 20 position on categorization taken in this particular 21 document was irrelevant to the boards concerns. 22 MR. GUTTERMAN: I don't believe the Board ever 23 24 said that, Mr. Chairman. JUDGE BECHHOEFER: I think we said it was 25

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wrong, but --

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2 MR. SINKIN: You did say it was wrong, too, but 3 I think you also said that it would not be a matter of --4 MR. GUTTERMAN: Mr. Chairman, it's Applicants 5 position that the fact that the NRC staff reviewed the 6 Quadrex findings and concluded that the findings were not 7 reportable whether right or wrong, shows that the fact 8 that the Applicant similarly concluded they were not 9 reportable did not reflect adversely on Applicants' 10 character and competence. And I think to make that 11 point, Applicants ought to be able to get into evidence 12 this particular staff review of the reportability of the 13 Quadrex findings.

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MR. SINKIN: I disagree, Mr. Chairman, because we were in the process of attempting to respond to the categorizations, which we wanted dircovery on how they were performed, and the Board ruled that since they were not going to rely on this document in any way, there was no reason for us to have discovery or to explore it any further.

21 MR. GUTTERMAN: Mr. Chairman, this document is 22 specifically referenced in the testimony.

23 MR. SINKIN: Fine, we'll move to strike the 24 reference in the testimony.

MR. GUTTERMAN: This comes too late, Mr.

Chairman. CCANP's examination has already been 1 2 completed. 3 MR. SINKIN: Well, on my --MR. GUTTERMAN: I think the facts of the review 4 and the outcome of the review are clearly relevant and 5 material to the issues before this board. 6 7 JUDGE BECHHOEFER: What's the Staff's position. MR. REIS: Leaving aside the correctness of the 8 review, certainly it is very, very probative of Houston 9 10 Lighting & Power's character and competence that the Staff, at least the staff of Region IV, came to the same 11 12 conclusion. It will be the Staff's position in its brief 13 later that no matter even if there were errors made, the 14 fact that a reputable region of the NRC came to the same 15 conclusion, you certainly could not hold it against the 16 Applicants for coming to the same type of conclusions. 17 MR. SINKIN: Well, Mr. Chairman, we would say 18 that the only thing this document goes to is the competence of the Staff of Region IV and whether they're 19 20 reputable or not will be known soon I'm sure. But we 21 don't think it has any retries to this proceeding. 22 JUDGE BECHHOEFER: I think we'll overrule the 23 objections. I think all of this will go -- well, I 24 assume there was an objection to your question. 25 MR. GUTTERMAN: There was.

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MR. SINKIN: There is an objection, Mr.
 Chairman and part of the basis is we were not given
 discovery on how the Staff developed their
 categorizations to make their determinations of what was
 reportable around what was not reportable so that will
 stand as parts of the objection if it does come into
 evidence.

JUDGE BECHHOEFER: Well, I'm not sure the last is relevant. For the purpose that it will be used for.

MR. GUTTERMAN: Thank you, Mr. Chairman. Let me start my question.

JUDGE BECHHOEFER: We're overruling the objection. You can ask the question.

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14 (By Mr. Gutterman) the question I started to 0 15 ask was referring, Mr. Johnson, to Page 8 of the 16 memorandum, section five, entitled "Reportability of 17 Individual Quadrex Items," does that section five 18 accurately describe the results of the review, the review 19 conducted by Region IV of the reportability of the 20 Quadrex findings and the results thereof as of August 24th, 1984? 21

A (By Mr. Johnson) Yes, that section five was
prepared by the Region IV staff.

Q So taken together, the section five of that memorandum and the enclosure, describe Region IV's review

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of these particular Quadrex findings for reportability? 1 Yes, the review was done in the -- prior to 2 A this August 24th, just prior to that, using against 10 3 CFR 50 55(e), and what we saw in the Quadrex report. 4 MR. GUTTERMAN: Mr. Chairman, I move that 5 Applicants' Exhibit 77 be admitted into evidence. 6 MR. SINKIN: Objection. 7 MR. REIS: No objection. 8 MR. SINKIN: For all the basis stated that the 9 question shouldn't be asked, the document shouldn't come 10 11 in either. 12 Mr. Chairman, I would point to the Board's February 26th, 1985 order at page 29, where it 13 states: "With respect to further discovery, we wish to 14 stress that the main subject which CCANP wishes to pursue 15 is the Staff's decision making process with respect to 15 reportability of Quadrex findings under 10 CFR 50 55(e). 17 We stated earlier and we repeat, that the Staff's 18 procedures are not relevant to HL&P's character and 19 competence. Beyond that, as set forth below, we are 20 placing no reliance in determining reportability of 21 Quadrex report items on the analysis set forth in the 22 Staff's August 24th, 1984 brief." So obviously we were 23 not on notice that this document would be litigated; we 24 were on notice that it was irrelevant; that we were 25

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1 denied discovery on that basis.

JUDGE BECHHOEFER: The Board will admit this document, but we want to note that it's basically for the conclusion it reached, not to the internal procedures that were used to reach that. Insofar as it's relevant to this proceeding, it could bear -- I don't say it does -but it could bear on the Applicants' character.

8 MR. SINKIN: Mr. Chairman, I can since the 9 document has been document admitted, copies should be 10 distributed to the parties just as any other document 11 introduced late in the hearing.

MR. GUTTERMAN: Mr. Chairman, copies have been
distributed to the parties.

MR. SINKIN: The parties were not on NOTICE this was coming into evidence as an exhibit as we were on all the other items FOR which we didn't have to bring copies -- you didn't have to distribute copies. When you introduce them in iddle of the hearing, you distribute copies.

20 MR. GUTTERMAN: Mr. Chairman, we can make an 21 extra copy for CCANP if they're anxious to have an extra 22 copy but I think the point is not well taken because the 23 Staff had said originally that they were going to 24 introduce the documents discussed in their testimony and 25 they overlooked this one, and we're just filling the gap

of an oversight. But if CCANP wants another copy of this 1 document, we will get one at the first opportunity or we 2 can give one of the reporter's copies to CCANP and make 3 another copy for the reporter. 4 5 JUDGE BECHHOEFER: Do you have the copies for 6 the reporter? 7 MR. GUTTERMAN: Yes. MR. REIS: Why don't we just to move things 8 along, the Board will take one --9 MR. GUTTERMAN: In fact, we can give CCANP the 10 copy that I gave to the witness to examine. 11 JUDGE BECHHOEFER: The Board at least, I have a 12 copy. You don't have to -- we have other copies back in 13 14 our offices. 15 We will admit the document, Applicants' Exhibit 16 77. (Applicants' Exhibit No. 77 17 18 received in evidence.) MR. GUTTERMAN: Now I'd like to mark and show 19 to the witness a document that will be Applicants' 20 Exhibit 78. 21 (Applicants' Exhibit No. 78 22 23 marked for identification.) (By Mr. Gutterman) Applicants Exhibit 78 is a 24 0 November 23, 1984 letter, from Mr. E.L. Johnson, Chief 25

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Reactor Project Branch I, NRC Region IV, to Houston
 Lighting & Power Company, I believe it's what you might
 call I&E 84-12 on the South Texas Project. Is that
 correct, Mr. Johnson

5 A (By Mr. Johnson) That would be Region IV 6 inspection report 84-12. Since the regions have become 7 independent offices, it's an NRC inspection report.

8 Q Referring you to Page 5 of the inspection 9 report, the discussion that begins at the bottom of 10 that page where it says: "(Closed) Violation 11 (498/499-8202-01)."

12 In that discussion, does the Region IV consider 13 the response of Houston Lighting & Power to the notice of 14 violation that came out of I&E report 82-02 and closed 15 that violation?

Yes. This particular section of the report 16 A starting at the bottom of Page 5 and continuing about 17 three quarters of the way down page six is the follow-up 18 action taken on the notice of violation that was issued 19 from the results of inspection 82-02, which was a 20 respondED to by HL&P. We found the corrective action 21 that they proposed in their response satisfactory and 22 this then verifies the implementation of that corrective 23 action. 24

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Q And does that paragraph accurately reflect

Region IV's review of that response? 1 2 A It reflects Region IV's review of the implementation of the response made by HL&P, yes. 3 MR. GUTTERMAN: I move that Applicants' Exhibit 4 5 78 be admitted into evidence. MR. REIS: The staff has no objection, as 6 7 limited to that one section of the report appearing on pages five and six. 8 MR. SINKIN: No objection, with the same as the 9 Staff. 10 JUDGE BECHHOEFER: The Board will admit 11 12 Applicants' Exhibit 78 on that basis. The portions on page five and six about which the witnesses were 13 questioned, together with any identifying details to show 14 what the document is. 15 (Applicants' Exhibit No. 78 16 received in evidence.) 17 MR. GUTTERMAN: That completes Applicants' 18 19 cross-examination. BOARD EXAMINATION 20 By Judge Shon: 21 Q I just had a few minor questions. One is a 22 matter covered in Mr. Taylor's testimony, briefly 23 mentioned at page 23, it's the the cooling pond sizing 24 matter. And it's discussed a little bit more fully on 25

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page 44. We have heard testimony from Applicants' 1 2 witnesses concerning this matter, also, at least one of their witnesses expressed the view that the thing wasn't 3 really a safety matter at all, since the condition that 4 hadn't been analyzed was for both plants shutdown and 5 6 even under those circumstances, even if the tech spec governing the temperature of the pond were violated, no 7 safety problem would ensue because if you violate a tech 8 spec of that sort all you're obligated do is shut down 9 anyway and they'd already be shutdown, so that there was 10 no way in which this could really result in a safety 11 problem. What do you think of that reasoning? 12

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(By Mr. Taylor) As far as it goes, it's 13 A acceptable. But there is one limiting function. If that 14 15 temperature in the pond were to rise so high as an example, to prevent adequate cooling, to some of the 16 service that is that service water is providing, that 17 would be a detrimental in that condition. I think what 18 we're really talking about is not both units shutdown but 19 both units in the process of shutting down; when you're 20 rejecting massive amounts of heat. So if that 21 22 temperature were to rise well above the qualified level of certain pieces of equipment, and I'd pick out a pump 23 as an example, where you're supplying cooling water to 24 bearing surfaces, if that temperature were to rise so 25

high that the bearings expand into a point of abrading on
 each other, that then the pump would stall out then
 you've lost certain service.

Q The other question that I wanted to ask Mr. Taylor has to do with his testimony at Page 4, concerning ANSI N-45.2.11, it developed rather late in Mr. Sinkin's cross-examination of the panel that no one really knew whether or not the plant was committed to using this particular standard.

10 If it were not, would that in any way affect 11 the conclusions that you reach in your testimony 12 regarding reportability?

13 (By Mr. Johnson) I'll take that question, sir. A I did a little research. The FSAR, ANSI N-45.2.11 is 14 such a common standard that's the one we immediately went 15 16 to and HL&P is commited to ANSI N-45.2.11, 1976, 17 according to their FSAR, with some -- there are some minor exceptions explained in detail in the FSAR and 18 therefore it was an appropriate one, it was just one of 19 20 those things that we grabbed the standard that everybody uses and you know just made the gross assumption that 21 22 they also use it.

Even if they didn't, it's a good guideline for the review that Mr. Taylor's was asked to conducts. But they are committed to it. JUDGE SHON: I see. Thank you, that's all. Q (By Judge Lamb) I have a few questions concerning -- did you have something.

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4 A (By Mr. Johnson) He just had my ear for a 5 moment.

6 Q I have a few questions regarding some issues 7 that the Board has to resolve. And I would like to make 8 certain although some of you have addressed some of these 9 in your testimony. That I would like to be certain that 10 we get all the information from the individual members of 11 the panel that we can which might be helpful.

First of all, with respect to whether the Quadrex report should have been reported in its entirety, back in May of 1981, does any member -- one of you at least have addressed this already in your testimony. What I want to find out is whether or not any of other members of the panel could address that.

18 A (By Mr. Taylor) I already addressed it; now
19 you do it.

A (By Mr. Johnson) Mr. Constable and I, I think
we touched on that in some of our testimony.

A (By Mr. Constable) Yes, we touched on it in our testimony. We don't think this was reportable as a whole documentm, and so state.

A (By Mr. Johnson) The thing you have to get to

there to report the whole thing, you would be saying that 1 it represents -- that there's a deficiency in there and 2 it represents, for example, significant breakdown in 3 quality assurance program. And as I pointed out 4 yesterday, the entire tenor of 50.55(e) starts with 5 something is wrong in the plant that's going to affect 6 safe operation, adversely affect the safe operation down 7 the road, or could, if left uncorrected. 8

Given that then, you have a set of criteria 9 that you look at that deficiency against to see does this 10 deficiency then represent a broader root cause, a 11 breakdown in QA, faulty design process, such that that 12 design process or that breakdown in QA are going to cause 13 14 other problems to occur. If you have several reportable items in this report and having examined them, you 15 16 discover that they're from diverse causes, they don't 17 suggest this common thread, then our conclusion was that the report is not reportable under the way 50.55(e) is 18 written and the way that we interpreted it and the way 19 that I&E headquarters has desired that we interpret it. 20 Then you do not feel that it represented a 21 0 22 whole or in part a QA breakdown --

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A That's right, yes, sir.

Q -- if I'm interpreting your statement correctly. You agree with that Mr. Constable?

(By Mr. Constable) 1 A Yes. (By Mr. Taylor) Clearly I have already. 2 A 3 Mr. Hieshman, do you have a view on that? 0 (By Mr. Heishman) I cannot respond on that, 4 A Judge Lamb, in that I have not reviewed the report. 5 6 I would just like to check with each of you as 7 to the period of time and the degree of involvement which you have had with the South Texas Project. Could you 8 give me a thumbnail sketch of how much involvement you've 9 10 had other than that stated with respect to the Quadrex report? 11 12 (By Mr. Johnson) Starting with myself, the my A 13 involvement peripherally with South Texas, with the Quadrex issue, I was the enforcement officer in the 1982 14 15 time frame when we were writing, early 1982, when we were writing the NUREG document; then as a matter of fact, 16 report 82-02, the investigation, I was the director of 17 18 the enforcement investigation staff, Mr. Driskill, who was the investigator assigned to work for me; in October 19 of -- in mid-'83, I became the assistant to Mr. 20 21 Gagliardo, who was the division director over all the reactor projects. And in October of '83 I became the 22 branch chief and had South Texas Project under one of my 23 section chiefs. 24

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A (By Mr. Constable) My involvement with the

South Texas Project really began when I was selected as 1 section chief on May the 2nd of this year, so it's a very 2 short period of time. The facility was in the section 3 that the facility I was working on was, that is Waterford 4 and South Texas were under the same section chief. And 5 so I would hear things from time to time but essentially 6 nothing. My involvement strictly is based on the fact 7 that I became section chief, we had a job to do and I had 8 a background in dealing with 50.55(e) problems and this 9 kind of thing at Waterford. And I brought that to the 10 task that we had at hand. 11

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Q Thank you, Mr. Taylor.

A (By Mr. Taylor) I was what the NRC refers to as the project inspector, the lead inspector for the South Texas Project in it's very early stages of construction. From the beginning of roughly 1976 until the end of 1977, conducted something on the order of off the top of my head, roughly 20 inspections there.

Q Is that continued in recent years?

A No, sir, at the end -- beginning of 1978, I had the fortune or misfortune depending on your point of view of going to Comanche Peak for something like six years, with total disconnect from South Texas. It was only in June when this Quadrex review project was assigned to me that I became reinvolved with it. 1

Mr. Heishman.

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(By Mr. Heishman) I have had no direct 2 A 3 involvement with the facility. I testified yesterday about providing sume resources to do some review of the 4 Quadrex report but had no direct involvement in that. In 5 6 a previous assignment as a branch chief in Region III, some of the people from my branch were a part of a task 7 force that did some extended inspection at South Texas 8 and I don't remember the exact time frame for that. But 9 it was back in the early '80's. But I again had no 10 11 direct involvement other than providing resources.

12 Q Now, we have other people coming who can 13 respond to this, but what I'm looking for is any 14 information, any of the panel members feel that they 15 could give us or share with us concerning the competence 16 of Houston Lighting & Power over the past, any changes or 17 seen their competence over the past several years.

MR. SINKIN: If I might, I hate to interrupt 18 the Board question, but it seems clear to me this Board 19 was -- this panel was not called on the issue of the 20 current competence of HL&P. And if that issue is being 21 22 opened by this Board question, I think we're substantially expanding the purpose of this panel. 23 (By Mr. Johnson) It's right here in the 24 A 25 testimony.

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1	MR. SINKIN: Mr. Chairman, I'm sorry, I've just
2	there's a question and answer here about the 1983 SALP
3	report, so apparently these guys are here to testify
4	about the current competence. We may be here until
5	Tuesday with them.
6	JUDGE LAMB: I think this does go a little
7	beyond our purpose here so I'm going to withdraw that
8	question.
9	MR. AXELRAD: Dr. Lamb never mind.
10	JUDGE BECHHOEFER: It does appear that next
11	week's panel can answer that same question.
12	MR. PIRFO: Simply note for the record that the
13	next weeks panel report to Messrs. Constable and Johnson.
14	So to that extent, they are competent to testify to that
15	But the in terms of any details, of course, next week's
16	panel is the appropriate panel to deliver the questions
17	to.
18	JUDGE LAMB: I'll move on to a little different
19	area.
20	Q (By Judge Lamb) Does any member of the panel
21	have any reason to believe that HL&P attempted to conceal
22	the Quadrex report from the NRC or from this Board at any
23	time during the '81 period?
24	A (By Mr. Hieshman) I have no knowledge of that.
25	A (By Mr. Johnson) Since I was involved in 82-02

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as the supervisor for the investigator and had 1 2 discussions with them and signed off on that report, I think the conclusion there was generally no. Further to 3 4 that, I don't believe it -- based on again my experience 5 in that supervisor of the investigators and in pursuing allegations that other NTUL plants, it would be 6 impossible, practically impossible, for HL&P to conceal a 7 report of that magnitude. 8

9 If it were a single page memo from some 10 contractor who made some observation that was damning, 11 perhaps that could have been slipped away in the files 12 and all. But not something like that, of that 13 importance.

It's going to come out, as it did, as we started -- as we opened it up, we may not have known it was Quadrex, but we knew there was something and so we said "Give me this thing," and, "Here it is, okay."

18 And so I think there -- that it would be an 19 impossibility for that to have occurred.

20 Q Well I'm interested in whether there was any 21 attempt to.

A I don't get any indication that there was anattempt to do so.

Q Mr. Taylor?.

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A (By Mr. Taylor) I really can't say, sir. I

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wasn't involved.

Q Mr. Constable?

3 (By Mr. Constable) What I know is just from A talking to the individuals involved at the time. And I 4 can't say that they perceived it as an attempt to 5 6 withhold it, I think that Mr. Phillips was a little upset 7 that they couldn't give it to him right away at the time that this was discussed in the investigation and in other 8 9 places. I really don't know more about it than that. 10 JUDGE LAMB: That's all I have. 11 (By Judge Bechhoefer) Mr. Johnson and/or 0

Constable, I'd like a little more description of how Region IV expects the -- well so-called 14 day guideline, 14 14 day provision which appears in the April 1st, 1980 guideline, how that is or should be applied by an applicant? It's referred to on page six of your testimony in general.

(By Mr. Johnson) Sir, the typical process for 18 A a utility to follow and this is very similar to the --19 20 almost identical to the process that Bechtel is using and I'll slip in the part where HL&P gets involved in that, 21 22 and almost every other utility, there may be different 23 terminology, but I use kind of generics, start with the 24 identification of what appears to be a non-conforming 25 condition, what appears to be a problem; that's

identified by engineers craftsman QC inspectors, whatever
 source; someone walking through the plant and, you know,
 a hanger is dangling, you know, that looks like a problem
 to them so they write up a non-conformance report.

5 Over the lifetime of the plant's construction activities, that can be thousands and thousands and 6 7 thousands. Depends on again how they're used; there can be 10,000 easily. On a very quick turn around, a couple 8 9 of day basis, these reports are screened by a staff, 10 usually one or two dedicated people so that you have consistency in looking at these things. And they use a 11 rather broad guidelines, something that would ensure that 12 all possible items are passed to the next evaluation 13 level and the truly trivial ones are then processed as 14 15 normal NCR's and dispositioned and filed away as quality 16 records.

The ones that pass that initial quick screening go on to an evaluation board and that's where the, you know, about this 14 day process of evaluating it comes in. That board or whatever group they use, the evaluation group, consists of the various engineering disciplines, you know, some relatively experienced people.

If after 14 days, they haven't made the determination it's not reportable, they pass it along to

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the utility and within 24 hours, the utility then causes that to be reported as a potentially reportable item. Further evaluation may drop some of those back into the category of not reportable and then they'll be dispositioned as normal non-conformance reports.

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The utility, in this case, HL&P has a direct input to their, I guess we're calling it the incident review committee, the one that reacts within that 24 hour period, a direct input with their own form the DEF.

10 And in that regard then they take that same 24 hour period and make the report. What we've found is as 11 I point out in the testimony, about one third to two 12 13 thirds of all items that are reported to to NRC as 14 potentially reportable items end up being truly 15 reportable; the others are not reports I believe. But 16 the mechanism provides the NRC with the information early 17 and it causes us to have to deal with some issues that 18 are not reportable that we wouldn't have had to deal with 19 had we allowed that evaluation process to be a long one, 20 two months long. But that is a necessary expense and 21 we're willing to take that because we do get the problem 22 surfaced early, and can then deal with them promptly. 23 (No hiatus.)

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Q Do you have anything to add, Mr. --1 (By Mr. Constable) Just a little. You should 2 A know and understand, I think you do, that we inspect 3 that process all the way along the line. The fourteen 4 days is not a magic number, it's guidelines. The intent 5 is to cause the utility to not, you know, sit on things, 6 you know, to infinity so that we get decisions made and 7 things reported to us. 8

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9 But, you know, if they have to report it 10 before they've completely done their study, they just 11 have to make a decision based on what they have in their 12 hands at the time. Later on they may get more • 13 information and then decide that something is reported 14 that early on they didn't really know whether it was 15 reportable or not. It is guidelines.

(By Mr. Johnson) I will add to that the 16 A inspections that are performed, we follow up on every 17 reportable item and close it out in an inspection 18 report. The ones that are withdrawn as being 19 non-reportable, even though they were initially 20 potentially reportable, we follow up on a sampling of 21 those. Generally we'll scan the ones that look 22 interesting. We'll sample those packages and track back 23 through the records to satisfy ourselves that the 24 25 licensee is applying an appropriate engineering

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1 judgment.

Since the whole determination of reportability 2 3 revolves around informed judgment, we want to see -- we want to try to get a feel is that judgment similar to 4 what our judgment would be. 5

15048

6 Mr. Heishman, do you have any additional 0 7 views?

(By Mr. Heishman) No, sir. I think that --8 A 9 Mr. Johnson testified yesterday, I believe, that the 10 potentially reportable subject was created in order to try to address the problems associated with how do you 11 12 evaluate within twenty-four hours whether or not something is reportable. And, so, that whole system was 13 added to the guidance in 1980 in order to try to provide 14 a mechanism whereby that process could be better handled 15 and not unduly bog down the system with trivia reporting 16 and still get the kind of information within a time 17 frame to where it's useful with our understanding of the 18 intent of the law -- or the rule, excuse me. 19

Q Now, do any of you think that the Quadrex 20 21 report as a whole should have been put through that general procedure, making a potentially reportable 22 report and then withdrawing most of it later on? 23

MR. AXELRAD: Mr. Chairman, I didn't hear half 24 25 the question. Could you repeat it, please?

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JUDG' BECHHOEFER: I hope so. I said do any 1 of the panel members think that the Quadrex report as a 2 whole should have been put through the procedure where 3 4 it would have been sent in as potentially reportable and then subject to further study, item by item various 5 items withdrawn that were found not to be reportable. 6 A (By Mr. Heishman) I have not reviewed the 7 report, sir, so I cannot reply to that. 8 Q (By Judge Bechhoefer) Mr. Johnson? 9 (By Mr. Johnson) I don't believe it would 10 A 11 have served us any different purpose than what we already arrived at. It would have --12 First of all, we determined -- our own review 13 satisfied ourselves that the thing was not reportable 14 under 50.55(e). We certainly do not want to be burdened 15 with infinite trivia in reporting. You know, we can't 16 handle -- we have to have some threshold. We're very 17 limited in resources. We want to focus on that which is 18 19 important. We would have -- as we have done, we would 20 have followed up on the utility's actions for such an 21 audit. It is certainly interesting, in the first 22 reading you get -- you know, you get a flavor that, gee, 23 this is an important document, which we did. We 24 25 followed up on the Bechtel review. It would have been

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not much different in scope. It would have been 1 different in style had this not been the subject of, you 2 3 know, the Board hearings, had this been a more routine 4 document that didn't have such notoriety. But, no, sir, I don't believe that it would 5 6 have served us any useful purpose to have it as a potentially reportable item. 7 Q I'm not sure you're the right panel to ask and 8 if you're not, let me know. But do you, any of you 9 believe that something like the fourteen-day guidelines 10 should be written into a utility's internal procedures? 11 MR. REIS: Mr. Chairman, I'm going to object 12 13 to that. You're asking them what their view is on what future rule making should be. I think the Commission 14 has ---15 JUDGE BECHHOEFER: I didn't ask that. That's 16 17 not the question. It has nothing to do with future rule making. 18 MR. REIS: I understand it that way. 19 JUDGE BECHHOEFER: This is guidelines and many 20 times utilities write guidelines into their internal 21 procedures and I'm just asking them whether procedure 22 PLP-02 does not include a --23 MR. REIS: Okay. I'll withdraw the 24 25 objection.

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	[1] 2월 12일 - 12
l	JUDGE BECHHOEFER: The witnesses had testified
2	that they had instruction sessions, training sessions
3	and I just wanted to see if this panel
4	MR. GUTTERMAN: Mr. Chairman, as I understand
5	what the Board's asking, it's would it be preferable
6	instead of the way the HL&P procedure is written where
7	it says that these reviews shall be done promptly that
8	the procedures specifically say that they should be done
9	within fourteen days?
10	JUDGE BECHHCEFER: Or within some specified
11	days. Fourteen days is a guideline. That's where I was
12	driving.
13	MR. REIS: I'm sorry. I didn't understand the
14	question.
15	JUDGE BECHHOEFER: I'm not sure it's this
16	panel or the next panel.
17	MR. PIRFO: I don't have a problem with the
18	question. I don't think this is the panel to ask.
19	JUDGE BECHHOEFER: That's what I'm not sure.
20	There is some overlap and this panel certainly seems to
21	know a low lot about the fourteen-day guideline
22	provision, so
23	MR. PIRFO: Go ahead.
24	A (By Mr. Johnson) Yeah, we have examined
25	exactly the process and the procedures that are in use
20	exactly the process and the procedures that are in use

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at South Texas. I discussed them at length with Mr.
 Garrison who we asked to go do the inspection. The
 Bechtel procedures do specify those stages of quick
 review and, you know, quick screening to screen out the
 obvious trivia, pass it on to the evaluation. There are
 specified time periods in there. Then it drops down
 into the HL&P system.

15052

I think the HL&P part of it is more 8 9 restrictive on them than we would have demanded according to those guidelines. But the input directly 10 to the HL&P side from their own people is far less than 11 12 you get from the Ebasco, the contractor, the engineering, you know. That's where 90 percent of all 13 14 of the potentially reportable items are going to flow 15 through that chain and that does have a Bechtel procedure that's pretty standard. Bechtel is using it 16 17 on all their nuclear projects. It specifies the level 18 of review and the time period, you know, when those 19 things have to kick through the system and drop into the utility's lap. So, it's a controlled process in that 20 21 regard.

Q (By Judge Bechhoefer) And you have no problem that this procedure, PLP-02, I think uses just the term "promptly," you have no problem with that I take it? A The implementing procedures on the Bechtel

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side provide for the appropriate level of evaluation in
 a timely manner. And I don't remember whether it's
 fourteen days or ten days or fifteen days, but it's a
 fixed period of limited time to give it an initial
 appropriate level evaluation.

Q Was or is the Staff, any of you can answer
this, generally satisfied with the level of
documentation of the Quadrex review that HL&P kept or
had in its files?

A I haven't examined the level of documentation 10 in the review that was conducted back in August, 11 whatever the conclusions may be drawn from that. I can 12 say that that review satisfied the Region IV staff that 13 there was sufficient documentation. They could track 14 15 back through the process, there were packages of quality records that allowed us to reconstruct for our own 16 purposes to make our decision on reportability. 17

Q I see.

18

19 There is some testimony by the HL&P officials 20 that said that they were not able precisely to remember 21 exactly the reasons assigned for not reporting certain 22 items. 23 A Yeah, I won't say that -- and I --

24 Q They did reconstruct some reasons.

25 A Yean. I don't think that any of that

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documentation had clear disclaimer documents. You know,
this is the basis upon which I decided it was not
reportable. But the underlying, you know, documents,
the engineering calculation that you'd have to go to
this file for and, you know, some other supporting piece
of paper, that all exists because those are all quality
records, they're required to be maintained.

15054

8 So, the record is there, but it -- and we 9 don't require licensees to -- for those items that they 10 decide not to report even as potentially reportable 11 items, we don't require them to say why we didn't do it. They would disposition that piece of paper and you 12 could track back through that entire record from the 13 time the nonconforming condition was first identified 14 15 till when it's finally closed out.

16 Q You do not require a group, for instance, like 17 the IRC to maintain records of all of those items I take 18 it?

19 A For those items that they decide are 20 potentially reportable and then end up being reportable, 21 we require, you know, obviously complete records. For 22 those that are made potentially reportable and then 23 later withdrawn, as I say, we -- as a matter of fact, 24 it's been an active subject of discussion over the past 25 I guess a year or more that we want the utility to give

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us a short -- when they withdraw the item saying, you know, declaring that it's not reportable, we want to -that initial letter to us or that letter that we'll withdraw it to give some basis for it. We can -- you know, we can be initially satisfied.

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15055

6 Later on we're going to go and we're going to 7 sample that thought process as I indicated before in our 8 inspection program. But initially to look at it to say 9 yes, it's reasonable or do I see some fault here that I 10 ought to be getting on the phone to them and saying no, 11 I'm not satisfied with your reasoning, you know, let's 12 get together and talk about it.

Q What about records of items considered by a group like the IRC or the IRC in this case, records of items that the group considers it determines are not reportable or not potentially reportable, internal records of that sort. Does the Staff expect -- or what does the Staff expect in that regard?

A To the extent that those do represent
deficiencies in the plant, they have to be
dispositioned, there will be quality documentation.
Could I go and could I track, pick up an NCR and get an
indication that that went to the IRC. I'm not that
familiar with their internal process. There is indeed a
possibility.

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We're sampling NCR's and observing that 1 2 process. Anything that gets to that IRC is either in the form of an NCR or a deficiency evaluation form, the 3 DEF, it's just an NCR by another name, those are 4 available, we do sample those. We don't require that 5 6 they maintain those kind -- that level of record that 7 would say I looked at this deficiency evaluation form and I have decided it's not reportable for these 8 reasons. So, that's not part of the -- of our 9 10 requirements and I'm not sure whether they do that and 11 apparently they don't. But that doesn't give us difficulty because we're going to sample the base 12 13 document.

14 Q Now, would you have liked or would you have 15 expected maybe a deficiency form or something equivalent 16 because they didn't have it in 1981, but would you have 17 expected or desired records for each Quadrex item of 18 that sort that was not reported?

MR. REIS: I can't -- I'm sorry, Mr. Chairman,
I didn't hear the end of the question.

JUDGE BECHHOEFER: I'm sorry. Each item that would be determined to be not reportable, would the gentlemen have liked records of that sort.

24 Q (By Judge Bechhoefer) Mr. Taylor can answer 25 too, I'm not --

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1 A (By Mr. Johnson) Yeah, I want him to leap in 2 on this. But I'll give you an acceptable alternative as 3 from the perspective of the NRC manager.

15057

Had HL&P called us up and said, look, we've 4 5 just completed a significant audit of our engineering 6 process. There are a lot of findings that need to be looked into and I'm going to run it through the normal 7 process, my IRC, and that's going to take us six weeks. 8 I just want to let you know. And that would, you know, 9 kind of turn us off from going and writing traffic 10 tickets, you know, you didn't do this in twenty-four, 11 12 you didn't do that.

The same end result would have occurred. You know, they would have had several potentially reportable items which were then, you know, determined to be reportable, the others would have been non-reportable. It would have been acceptable as an alternative to us.

18 If HL&P looked at the thing differently and 19 they said we've got to live up to our requirements to do 20 a prompt review of this thing in twenty-four hours and 21 then did it that way. I think we would have found 22 either one totally acceptable.

Bob?

23

A (By Mr. Taylor) I think that Mr. Johnson's
already said that we sample nonconformance reports,

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1 audit deficiency records, DEF's, DER's, whatever title the document represents a reported deficiency. I would 2 3 review the Quadrex questions, the Brown & Root answers 4 and the Quadrex assessments in the same nature, that in 5 reality they are deficiency reports. We've sampled the 6 deficiency reports. Now, we make an independent 7 judgment as to whether they should or should not, but 8 the document exists to make that judgment by.

15058

9 Q (By Judge Bechhoefer) You think there was 10 enough documentation of the non-reported items of the 11 Quadrex report so that the Staff could make its 12 judgment?

13

A Absolutely.

14 Q I believe one of you gentlemen or all of you 15 stated that you would have -- it would have been nice or 16 desirable if the company had called Region IV rather 17 than Mr. Sells. Or maybe not rather than, but in 18 addition to Mr. Sells.

19Can you give me some elaboration of your20reasoning? Was this just a matter of a comity, more or21less? I know you all say there was no requirement.22A (By Mr. Johnson) I believe it would have been23comity.

24 The NRR at the stage of licensing that the 25 utility, HL&P, was in, NRR is the organization that

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examines the design and the acceptability through the 1 FSAR, I think it would have been natural for them to 2 turn to them. The utilities only late in the licensing 3 process come to realize that the real regulatory body 4 that they have to deal with is the office of inspection 5 enforcement, now NRC Region IV, because we're going to 6 be around with them for forty years day in, day out. 7 8 They'll only be talking to their project manager on a weekly basis. But they saw us as the inspection force, 9 interested in the implementation, the piping erection 10 and, you know, the proper welding and the QC records and 11 not the design things. 12

So, I think they turn naturally to NRR on 13 that. We certainly want to be remembered in their 14 thoughts. I certainly think they understand that now. 15 Q My last question, Mr. Johnson and Constable. 16 You have stated you agree with the testimony of Mr. 17 Taylor. Does that agreement include the matter of the 18 19 two or three items that Mr. Taylor thought should have 20 been potentially reportable but were not but were not actually reported? 21

A Those items where he said, you know, from my perspective it's an awful close call, I might have made them potentially reportable and they eventually turned out to be not reportable.

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Yeah, we talked -- I, you know, probed his thought process on it because I wanted to understand and 3 I think that it's a matter of that informed judgment.

4 An awful lot of -- a lot of the time, we, the 5 NRC, obviously takes a conservative, the most conservative stand on issues. I think we have to when 6 7 there is a judgment to be made. I think the utility 8 tries to take at least as conservative a thing because 9 they know if they make the wrong choice, that we're 10 going to come down with enforcement on them. There's going to be close calls like that. 11

And, so, I agree that, yeah, from what the 12 Quadrex has, you know, as I questioned Mr. Taylor about 13 it, that those were pretty close calls, the utility made 14 ultimately the right decision based on what we saw 15 there. We might have, you know -- another view of it 16 might have resulted in calling it potentially 17 reportable. It ended up being not reportable; hence, 18 19 you know, ultimately the decision was the right one.

I think it demonstrates the latitude that you 20 can get into on these things. There's a box, we hope 21 it's not very big, but there is some space in there for 22 what's a deficiency and what's reportable and what's 23 significant. 24

25

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I take it there's no very practical way of 0

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defining a threshold that everybody could come up with exactly the same answer?

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15061

A No, sir. We have meetings with the same utility, we will have a series of meetings over the life of the inspection process to discuss reportability to continue to make sure we understand their thought process and they understand our requirements.

8 A (By Mr. Heishman) I might add that I've 9 struggled with that in my current assignment for the 10 last four years and prior to that as a regional manager 11 of trying to figure out some way to make it easier for 12 all of us to do the same thing under given sets of 13 circumstances and I have not been able to do so.

14 So, I think it is -- I think you characterized 15 it properly when you said I don't know of any easy way to do it. We've tried several different sets of 16 guidance, the latest the one we were discussing at the 17 present time, and there still is a lot of room for 18 19 judgment. And I guess in reality the nature of what it 20 is we're trying to deal with requires that informed judgment and we do have those kind of people utilizing 21 it and exercising that judgment. So, on that basis I 22 think we're not too bad off. 23

Q Anyone else want to comment on that?
 JUDGE BECHHOEFER: That's my last question.

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	15062
1	Mr. Pirfo or Reis?
2	MR. REIS: Mr. Pirfo.
3	MR. PIRFO: I would like a couple minutes for
4	redirect.
5	JUDGE BECHHOEFER: Okay.
6	
7	REDIRECT EXAMINATION
8	BY MR. PIRFO:
9	Q Mr. Johnson, yesterday you recall in answering
10	questions from Mr. Sinkin you referred to biggies and
11	not so biggies in terms of potentially reportable
12	items. And then this morning with questioning from
13	Judge Lamb you referred to or Mr. Heishman referred to
14	trivia reporting.
15	Would you give at least Region IV's view with
16	regard to the amount of self-policing and self-screening
17	the utility must do so that 50.55(e) can be an effective
18	regulatory tool?
19	A (By Mr. Johnson) I think it really keys on
20	that evaluation process that occurs prior to making or
21	telephoning the item in to the region and following it
22	up with a written report. Where we have seen where
23	we have utilities who use very quick turnaround, in one
24	case five days, we end up with an enormous number of
25	reports being made to us of which only a small

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15063

percentage, like one-third, end up being truly reportable. Well, we have to deal with, you know, two-thirds of that is chaff that, you know, we have to deal with. We have to take an initial look at to see if it looks like something we ought to be taking, you know, prompt and vigorous action on.

7 That becomes a drain on resources. We accept 8 that because we get information early that way where the 9' evaluation process is longer and results in more of them 10 being screened out of that part that gets reported to 11 the NRC. And the number of items that are actually 12 reportable out of all those reports that are made to the 13 NRC becomes more like two-thirds.

So, when I say biggies, I mean the ones that end up being actually reportable and the ones, you know, the not so biggies are the ones that are not -- do not meet the criteria of 50.55(e), nonetheless, they're deficiencies, they have to be disposed of, dispositioned properly by the licensee.

20 Q Is not part of the utility's task then in 21 doing this not to avoid flooding or blizzarding the 22 agency with too much information, that they're supposed 23 to do a screening process and to get some handle on the 24 problem before it's reported to the NRC?

25

A That's exactly right. We want the licensee to

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1	build his plant properly in accordance with the
2	requirements and his FSAR. We cannot possibly do that
3	job for him. The fact that these reporting requirements
4	require him to use a certain level of judgment, that we
5	try to measure that judgment gives us some confidence,
6	that additional confidence that he understands what are
7	truly significant problems and what are routine problems
8	that just need to be dispositioned in accordance with
9	the type quality assurance requirements.
10	Q Mr. Constable, do you have something to add?
11	A (By Mr. Constable) I just want to add a
12	little there.
13	When they send in a 50.55(e), they call it in,
14	they call it in to the regional office. It generally
15	involves section chiefs and folks there. The inspectors
16	on site are often aware of these things anyway and these
17	lower-level type of reports or concerns, shall we say,
18	things that don't quite meet the potential category are
19	generally fairly well known to the inspectors on site.
20	So, it's not like they're lost in the system
21	somehow or somehow go generally unobserved. We do
22	inspect the process on the site. By reporting things as
23	potentials that really you don't have a good basis for,
24	you do just take up the time of some of our senior
25	people that doesn't need to be done.

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Q Mr. Heishman, from I&E's point of view, do you
 have anything to add to their answer?

15065

(By Mr. Heishman) I would add one short 3 A statement, that the use of the word "trivia" this 4 morning was intentional in that that word is used in the 5 guidance a time or two to point out that in reality the 6 intent of the rule is to not get involved in things that 7 don't have significance. While the word "significance" 8 is not described or defined very well, we try to 9 approach it from both sides. And, so, what the region 10 has described I think is consistent with the I&E 11 position. 12

13 Q So, one of the duties under 50.55(e) is to 14 look at information handed to you much as in the Quadrex 15 report and to make a determination as to what you report 16 to the NRC?

17 A Absolutely. And I might add that in my fifteen years of experience in doing this, not all of 18 which did 50.55(e) exist, one of the things tham I 19 looked at very carefully was to try to determine and to 20 use as a measure how many of what type of items were 21 reported by a utility because that was a measure for me 22 as to whether or not they really understood and was 23 applying that criteria. 24

Q Thank you.

25

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	15066
1	MR. PIRFO: I have no further questions, Mr.
2	Chairman.
3	JUDGE BECHHOEFER: Mr. Sinkin?
4	
5	RECROSS-EXAMINATION
6	BY MR. SINKIN:
7	Q Mr. Johnson and Mr. Taylor, I think at least
8	this applies to you. You were asked a question about
9	whether the Nuclear Regulatory Commission in your
10	recollection has ever cited anyone for a failure to
11	notify the NRC of an item that turned out to be
12	ultimately not reportable and your answer was no. Is
13	that correct?
14	A (By Mr. Taylor) Right.
15	A (By Mr. Johnson) My answer was in my
16	recollection it had not occurred.
17	Q Is it not correct that prior to coming into
18	the hearing this morning, you rehearsed that answer in
19	the hall with HL&P's attorneys?
20	MR. PIRFO: I'll object to that question.
21	MR. SINKIN: Mr. Chairman, I think it goes to
22	the credibility of these witnesses as to how their
23	testimony is being given. This question was asked in
24	the hall by HL&P attorneys to find out what their answer
25	would be. They told them what their answer would be.

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1 Their attorneys were not present. I contrast that with my approach to Mr. Tapia 2 where there was a big stink momentarily about whether I 3 had approached him through the attorneys and the 4 attorneys were present and it turned out they were so 5 6 there was no problem. 7 I think this kind of cooperation between the 8 NRC Staff witnesses and the HL&P attorneys is an excellent illustration of why this panel simply is not 9 10 credible. MR. PIRFO: I'll object to that question. I 11 object to that statement and move to strike it. 12 13 It's not the place to -- this is absurd. Mr. 14 Sinkin is attacking the Nuclear Regulatory Commission 15 process, he's attacking me personally, Mr. Reis personally, this panel, the credibility of the Nuclear 16 17 Regulatory Commission, the credibility of the Applicants, their integrity. This is nothing but a slur 18 19 and I resent it. 20 I don't see -- to the extent Mr. Sinkin talked to my witnesses, he was without permission to do so and 21 22 that is why I objected to it. If one of the Applicants 23 talked to the witnesses, it was with my permission.

15067

24 These people have to deal with the Applicant on a daily
25 basis. They do it all the time. Intervenors do not

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have that. They're not in that position. 1 2 MR. SINKIN: But we're in a hearing right now, Mr. Chairman, and the question is what is the answer to 3 a given inquiry and is it your best and most complete 4 5 answer and all of that. And what we had here was going out and finding out what the answer's going to be before 6 the question's asked so that the proper answer can be 7 given so they will be on notice what the question's 8 9 going to be. We don't think that's an appropriate way --10 the NRC Staff supposedly is a neutral third party in. 11 12 these proceedings ---MR. REIS: Mr. Chairman --13 14 MR. SINKIN: -- and the idea of going out and 15 rehearsing their questions and answers with the Applicants as opposed to their own attorneys just is 16 simply not acceptable. 17 MR. REIS: Mr. Chairman, I think we can 18 diffuse this. I don't think there's anything that Mr. 19 Sinkin has indicated that indicates that this is not the 20 21 opinion of these witnesses. The fact that the opinions were solicited in the hall as well as in the hearing 22 23 room doesn't show any impropriety. It would be different if he was in some way 24 25 indicating that this was not the opinion of the

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witnesses. We could ask the witnesses again were they 1 2 influenced in any way by the attorneys for HL&P in 3 giving these answers. But that's really the crux of what we're doing, we're dealing with here, were the 4 5 answers in any way wrong --6 MR. SINKIN: No, sir, that is not the crux. 7 MR. REIS: -- and that's the crux. That is 8 the only thing that can be material. 9 MR. SINKIN: No, it is not the only thing that 10 can be material. If the witnesses say yes, they have been cited thirty-five times that we know of, the 11 question never would have been asked. 12 13 MR. GUTTERMAN: Mr. Chairman, that may or may 14 not be. But the point is nobody told these witnesses 15 what answer to give. Nobody said, gee, I want you to 16 answer this way to this question. I just asked a question of the witnesses in the hall, I asked the same 17 18 question in the hearing room. I got the same answer in both places. I don't see why that in any way undercuts 19 the witnesses' credibility. 20 MR. REIS: I think this matter has fully been 21 ventilated on the record now with everyone going back 22 and forth in this discussion. If Mr. Sinkin still wants 23

25 will reflect this discussion and I think it can be

a ruling, I think it could be made. I think the record

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closed.

1

2 MR. SINKIN: I think the discussion answers 3 the question.

15070

MR. GUTTERMAN: There is one other point I want to make and that is obviously this wasn't something secret going on in the hall. Mr. Sinkin was right there listening to it. He wasn't invisible. He was right there standing in the same vicinity, virtually in the same conversation.

MR. SINKIN: Well, that's just how blatant it's become, I guess.

MR. GUTTERMAN: There is nothing secret that went on.

JUDGE BECHHOEFER: I think we'll just drop the subject. We won't strike anything, but we won't -we'll just let the record stand.

17 Q (By Mr. Sinkin) Mr. Taylor, you discussed the 18 ECP problem and the eventual resolution of that 19 problem.

As I understand your testimony and looking at the supporting documents, there was initially a concern about whether the heat load to the essential cooling pond would exceed the technical specifications. That was analyzed and it was found it would exceed the technical specifications. But then the equipment that

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might be affected was analyzed and found to be capable 1 of dealing with the excess heat. Is that correct? 2 A (By Mr. Taylor) You mischaracterized it. I 3 was never concerned about the heat load exceeding the 4 technical specifications during shutdown. 5 What would the heat load have exceeded? 6 0 7 A It wouldn't have exceeded anything, even though Quadrex seems to say that it would. The only 8 thing that it could have exceeded, and it's not in terms 9 of heat load it's in terms of ultimate temperature of 10 the sink, was the equipment qualification level of 11 various equipments that are being cooled by the service 12 water system. 13 Q Okay. So, it might have exceeded the heat 14 15 level of the equipment being cooled by the water? 16 Yes. A 17 0 Okay. So, then you had to go look at that 18 equipment and see if it could withstand a higher heat load? 19 But that wasn't the issue that was in N-17. 20 A N-17 itself really contains three things in my 21 estimation. One was a disparity between the calculated 22 temperatures by two different groups, a potential for 23 24 error in the calculations by one group, and, thirdly, a statement that there is a potential for exceeding the 25

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1	tech spec limit during simultaneous shutdown.
2	Now, the third argument is specious, it's
3	impossible. There is no tech spec limit during that
4	particular condition. The other two are not necessarily
5	specious, but I didn't have any information on the
6	calculational error. In fact, they're not even sure
7	there is a calculational error according to my
8	recollection of N-17.
9	The thing that concerned me that I indicated
10	it would be potentially reportable was the disparity in
11	the temperatures between the two different 9 oups.
12	• Q I need to something you just said versus
13	what you were talking to Judge Shon about doesn't make
14	sense to me.
15	Weren't you talking to Judge Shon about the
16	fact that in simultaneous shutdown you have a process
17	going on dumping a lot of heat into the cooling pond and
18	that during that process you must be sure that the heat
19	in the cooling pond is not excessive in regard to the
20	equipment it's cooling while shutdown
21	A I did indeed say that.
22	Q But there's no technical specification as to
23	how much that heat can be?
24	A No, sir.
25	(No hiatus.)

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And why is that?

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2 It would be analogous to a situation with an A emergency diesel engine that we use in the plants; you 3 have all kinds of safeguards on the plant during its 4 5 testing, operation to prevent destruction of the engine. When the engine is actually needed in an emergency 6 7 condition, bypasses are put on almost every one of those engine safeguards and you let the engine go to 8 destruction if necessary to fulfill it's function. And 9 you do the same thing with these other devices in the 10 plants. If it has to destory itself to perform it's 11 function, let it destory itself. 12

Q Would there be not situations where you go into simultaneous shutdown of a nuclear reactor, two units, that aren't an emergency situation, you're doing it maybe because there's a hurricane off the coast and you decide to do --

18 A Strangely enough, there's very little
19 difference of reject heat in an emergency versus
20 non-emergency.

21 Q What you are saying if you're going into 22 simultaneous shotdown for whatever reason, it doesn't 23 matter that the heat in the heat sink might exceed the 24 limits of the equipment it's cooling.

A Correct, you just wouldn't start up again

because you've destroyed tome of the equipment. You
 don't re start, that's all. If you're engineering is
 that bad, you just won't restart.

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Q And that is not equipment that is in any way essential to shutting the plant down.

A I'm going to try and say it this way. Let's say the equipment was qualified for 105 degrees, either by analysis or by test. That doesn't really necessarily mean that the equipment is going to fail at 106 degrees, by any stretch of the imagination. It might not fail until it hits a 150 degrees. You don't know that, that's the problem.

13 Q But the equipment being cooled is not essential 14 to shutting the plant down?

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A Fair share of it is, yes.

16 Q But then what you're saying is you would allow -17 you could allow enough heat to be dropped in there to
18 destory the equipment that's actually necessary to shut
19 the plant down.

20 A But you're putting it in terms of instant
21 destruction.

Q You are saying there's no tech spec so there's no point at which you stop dumping heat because there would be no signal to you that I've exceeded a limit? A There's no tech spec limit on the upper 1 temperature.

A (By Mr. Johnson) To put this in perspective, there's a tech spec limit during normal operation. If you're shutting down, there's no -- that tech spec limit goes away because the tech spec limit is a limiting condition for operation.

Q So there is no limiting condition for shutting down? Do you have an unlimited ability to dump heat into the heat sink?

10 A I think you are a little confused now and 11 perhaps we have helped you in that regard. I'll try to 12 get back.

Let's assume that the tech spec says emergency cooling pond for normal operation shall be limited to a temperature of 100 degrees. And you are at 95, degrees, 96, 97, whatever, but you're less than a hundred. And you start shutting down both units.

Q Right.

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A It's time for routine outage or whatever
condition. And you go above a hundred degrees. So what?
You would go to the tech specs and see that if you exceed
a hundred degrees you shut down. But I am shutting down.
So you're in a catch 22 situation.

Now there's a calculation that has to be made to demonstrate that if you -- that the hundred degrees

1 normal, say you were operating right at a hundred degrees with both units, that the equipment that would be needed 2 3 in the plant, say on a loss of coolant accident, could be sufficiently cooled at that hundred degrees so that it 4 would not destroy. And those calculations, you know were 5 done then. But the issue of, you know, of the tech spec 6 7 thing is, you know, becomes a moot point because you're doing what you would have to do; you've exceeded tech 8 specs so shut down, but I am shutting down. 9

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10 Q I understand that particular logic sequence.
11 Let me set up a different logic sequence.

You're shutting down; it's routine normal 12 13 outage, and you're heat sensors tell you that for 14 whatever reason, the essential cooling pond is up at 150 15 degrees. And that 150 degrees can destroy the very 16 equipment you need to shut the plant down but you don't 17 have any limit that tells you you can't go beyond 150 degrees so you go to 160 and destory the equipment and 18 19 the shudown fails.

A (By Mr. Johnson) You better --

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A (By Mr. Constable) Tech specs establish a starting place for accidents. They don't say what it ultimately go to during an accident, they establish the starting points. The envolope the way in which the system is designed to operate.

1 A (By Mr. Johnson) I understand his problem. I think understand your problem. 2 3 Fine. 0 4 A The design says if I limit my starting point to 5 this temperature, all the heat that I could possibly ever put into it through the sequence of shutting down and 6 7 having to reject that heat will not bring the temperature 8 to such a point that the equipment will be, you know, 9 will be rendered inoperable. But if you are wrong, do you have any way of 10 0 11 knowing that you've gone beyond that temperature that the 12 calculation was based on. 13 MR. GUTTERMAN: Mr. Chairman, we're getting far afield of the Quadrex finding now. We're talking about 14 15 how to operate the plant. And this is --16 MR. SINKIN: This is precisely the concern 17 Quadrex had, the simultaneous shutdown and the amount of 18 heat that was going to be dumped into the heat sink. 19 That's precisely the concern they're expressing here. 20 MR. GUTTERMAN: Mr. Chairman --21 MR. PIRFO: It's far outside the scope of the 22 questions of Judge Shon, I believe it was, 23 MR. SINKIN: This is exactly the line of 24 questioning Judge Shon was pursuing. 25 MR. GUTTERMAN: I think what we're doing now is

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1 trying to educate Mr. Sinkin on how to run a nuclear 2 plant and how to do safety analysis and what role 3 technical specifications play and all that. But I think 4 the witnesses have been very clear on the particular 5 technical specification that's being dealt with in N-17 6 and I think they've made very clear that the safety 7 analysis for heat loads that might exceed the tech spec 8 is not a technical specifications question, it's a 9 question of safety analysis.

10 (By Mr. Sinkin) My current question posited a 0 particular situation and that was you have a simultaneous 11 shutdown going on because, perhaps, you've exceeded the 12 tech spec and that tells you're supposed to shut down. 13 14 Whatever, the tech spec is irrelevant to the situation 15 I'm positing. You've already gone past the tech spec, perhaps, and you're shutting down. You have a 16 17 simultaneous shutdown of both units dumping a lot of heat into the heat sink. In theory, obviously, you could have 18 so much heat being dumped that it would destroy the 19 equipment if the original calculations on how much heat 20 was going to be dumped during a simultaneous shutdown 21 22 were in fact wrong and more than that was being dumped, you could reach a point where the amount of heat being 23 dumped is destroying the equipment you need for the 24 shutdown. But you have, under the system I've heard you 25

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1 describe, you have no indicator of what that temperature 2 is that would cause you to maybe stop the shutdown. 3 (By Mr. Johnson) Wait, wait, wait. A MR. REIS: Can I have a guestion. I object in 4 5 that I don't want anybody to answer unless I have a particular question on the floor. So that we have some 6 7 focus to this. 8 JUDGE SHON: I think it is about time we 9 stopped pursuing this particular rabbit down the rabbit 10 whole. The difficulty is not that -- and I think that 11 the thing the Quadrex Corporation pointed out was not 12 that you might be caught unable to dump as much heat as you needed to shut the plant's down simultaneously; it 13 was that their calculations indicated that the 14 15 temperature would rise above a tech spec and that 16 particular thing, as Mr. Taylor said, is specious, it really has nothing to do with the case. I'm not sure it 17 18 was you that said it. MR. TAYLOR: I think I did. 19 20 MR. SINKIN: Mr. Taylor did say it. 21 JUDGE SHON: The assurance that I'm sure you're

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seeking that you are not going to get caught in a catch two two situation where you can't shutdown because the shutdown heat has burnt down the shutdown pumps or something, is precisely -- has nothing to do with the

1 tech specs. But that is the point that Mr. Taylor wanted 2 them to report as a potential, that there might be a bad 3 calculation on that.

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MR. SINKIN: The inconstistency, I believe.
 MR. TAYLOR: I believe the inconsistency of
 calculations between two engineering groups.

MR. SINKIN: I would point out while Quadrex 7 may have used this term tech spec here, that they say 8 9 this entire area needs to be carefully re-examined 10 particularly with respect to assumptions regarding availability of various heat sinks and equipment 11 operating limits. I think their concern was whether the 12 equipment operating limits would be exceeded by the 13 amount of heat dumped, that's their fundamental concern. 14

15 Now, whether they refer to a tech spec in 16 error, refer it to a tech spec, the real concern is whether an appropriate analysis has been done as to 17 whether the amount of heat dumped will exceed the limits 18 of the equipment for shutdown. And what I was hearing 19 the witnesses say was you don't have a signal anywhere in 20 the system that the amount of heat dumped is exceeding 21 the ability of the equipment to survive. 22

A (By Mr. Johnson) We need -- we need to resolve this.

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MR. PIRFO: Is there a question pending?

JUDGE SHON: No, but I think it's worthwhile having the witness explain. That's not what I heard them say. I'm sure there are temperature sensors and things.

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MR. SINKIN: I didn't hear that.

5 MR. TAYLOR: Can I perhaps clarify one more 6 thing. On the basis of having been at these hearings for 7 a part of the time for the last three weeks or four 8 weeks, during the last week, I was in the office for part 9 of the time; I availed myself of an opportunity to go 10 look at the current status of the FSAR, I have no idea 11 what it was in 1981, but I know what it is today.

As of Thursday or thereabouts, the tech spec 12 had or the FSAR has a calculation or the answer to a 13 14 calculation that indicates the heat load dumped to the 15 ultimate heat sink, during normal operation, during emergency shutdown, and during normal shutdown, and I'm 16 going to give some numbers quickly off the top of me 17 head. Normal operation is 225 million Btu per hour; both 18 of them shut downs conditions of 377 million Btu per 19 20 hour. But the span times are different. It's about fifteen minutes for emergency shutdown and 25 minutes for 21 22 normal shutdown.

The limiting condition for operation, temperature wise, is not yet stipulated, today, or as of Thursday, it was not yet stipulated in the tech spec.

The tech spec very specifically reads that if the water
 level in the ultimate heat sink or the unspecified
 temperature, both which are unspecified I might add, are
 exceeded, they will shut down in so many hours.

JUDGE SHON: I think, however, what Mr. Sinkin 5 6 was concerned with was he seemed to think that when one was shutting the plant down under the conditions under 7 which the ultimate heat sink would reach its highest 8 9 temperature, say high temperature -- high atmospheric temperature, high humidity and everything else, worse 10 11 that you'd normally encounter, you wouldn't know it if the temperature in that pond went to the point where it 12 could no longer keep all the bearings cool and that sort 13 of thing. That's not true. 14

MR. TAYLOR: Clearly incorrect.

Q (By Mr. Sinkin) Why?

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(By Mr. Johnson) Okay. Because Mr. Sinkin, 17 A the plant cannot reject any more heat than it can reject. 18 I mean, we can calculate that maximum amount of heat. 19 And that's why we're going to at the end, before the 20 plant gets licensed, we're going to fix that number in 21 the tech specs because that number is going to be 22 selected such that the starting point is such that that 23 maximum amount of heat put into it will not exceed the 24 equipment qualification ratings so that the plant is 25

1 brought to safe shutdown.

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2	That's exactly why you have that condition for
3	operation. It says if you hit this point, you must
4	either restore it within some, and there's some period of
5	time, manhours, a day, in hours, or you must be in cold
6	shutdown in the next so many hours. You know, so that
7	Q So until you've done that ultimate calculation
8	of how much total heat can be rejected, there's no
9	meaning to an existeng tech spec limit because it has to
10	be based on the ultimate calculation being done.
11	A You have to have that total amount of heat
12	that's going to be rejected and then you have to take
13	into account the amount of water, because if you but the
14	more water in the pond, you could
15	Q Take more heat?
16	A allow it to go to a higher temperature, it's
17	got a bigger volume of heat sink. So you have to fix the
18	level and you have to fix the maximum temperature in
19	order to have the appropriate heat sink and it becomes an
20	iterative calculation.
21	A (By Mr. Constable) What we're saying there's a
22	lot of variables and a lot of ways of achieving
23	Q I didn't hear.
24	A There's a lot of variables and there's a lot of
25	ways of achieving the same end property. It has to be

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studied and the best way decided upon so they won't have 1 2 a safety problem. 3 JUDGE SHON: I think we've beaten this subject about the head and shoulders as completely as we're going 4 5 to. MR. PIRFO: May I suggest this is an 6 7 appropriate time for a break? MR. SINKIN: I just have -- it didn't really 8 9 get into the questions I was going to ask on this 10 particular point and I really just have one, so if I could ask that question. 11 12 Q (By Mr. Sinkin) I was just trying to get the 13 process clear in my mind that you went through, or at least that this entire item went through in getting 14 15 resolved, does anyone know whether at the time this 16 finding was made Brown & Root had made some ultimate 17 calculation of how much total heat would be dumped in the 18 ECP? (By Mr. Taylor) That will -- and you're going 19 A 20 to reject --21 MR. PIRFO: Gentlemen, this is -- if this is a conference, hold your voices down. The reporter takes 22 23 down everything you say. 24 MR. SINKIN: What can I tell you --25 JUDGE BECHHOEFER: Too late.

1 (By Mr. Johnson) As indicated in N-17, they A 2 had done calculations on the amount of heat being rejected, I think Quadrex was saying hey there are 3 4 additional heat loads; you know, we think there are 5 additional heat loads; you ought to consider they may be 6 higher. We did a rough hand calculation, recognize that 7 at this stage those are also estimates because you may, you may add another piece of equipment, you know, you 8 9 could do a lot of things which will change the amount of 10 heat that you've got to deal with.

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Q But at this point, the essential cooling pond was built, was it not?

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Yes. It existed there was a pond there. We 13 A hadn't decided what the water level should be or what the 14 15 maximum allowable operating temperature would be. In 16 fact we're going to have to it rate. I think it still 17 showed that the design was in a relatively early stage, that they were starting to make some estimates on the 18 19 amount of heat, and when you add another piece of equipment, if they change the -- if they upped the 20 21 maximum amount of core operating power in the nuclear 22 design adding another five megawatts thermal, you're going to have to go through that calculation again 23 because there's another small increment of the decay heat 24 25 that's going to have to be rejected.

1 0 In the way you used deficiency yesterday, if 2 Brown & Root was wrong in the ultimate total heat that 3 might be put in the essential cooling pond, essential cooling pond is built, they're wrong about the ultimate 4 5 amount of heat that might be put in there, until they've actually finished all calculations and installed all 6 7 equipment and done that final calculation, you don't have 8 a deficiency as you used that term in 50.55(e)?

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9 A I think because of the iterative nature of the 10 thing --

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Q So that -- I'm sorry, were you finished? A No. This would have to be finalized. Hey, if at the end of the process you say, "Look, I've filled the thing to the highest level I can, assuming you know you don't get the overtopping with the seismic event and all, and I'm operating it at all and I'm operating it at the lowest temperature I can reasonably justify with, you know, local environmental conditions and all that, and I can't make my conditions, I can't meet the, you know, the acceptance criteria for absorbing the amount of heat," certainly we would have a reportable item. We would also have an item that would cause the plant not to get licensed.

We would hope that they're a little smarter than that.

It becomes the same kind of process as laying out a base mat for a foundation. You are not at that time, you are pouring the create or placing -- I say pouring, he reminds me it's placing -- you make a rough estimate that there are going to be certain loads.

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You try to be very very conservative on that 6 7 because as the plant gets erected and the regulatory 8 requirements increase, you know, you find you're having 9 to buy hydrogen combiner system and that's a certain load 10 and all that, so that when you get done and you calculate 11 actually all I have this equipment and so therefore the base mat sees this much load, that you damn well better 12 be within limits or you know, kiss it goodbye and wrap it 13 14 up.

Q Okay. Then --

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MR. PIRFO: Mr. Chairman. The witnesses has been going at it for some time.

18 MR. SINKIN: This is the last question. (By Mr. Sinkin) Then if Mr. Taylor had come to 19 0 you, May of 1891, or any time prior to delivery of the 20 21 Quadrex report, and brought N-17 to your attention and 22 said that he considered it a potentially reportable item that HL&P had not reported, you would have disagreed 23 because you would not have found a deficiency in the way 24 you understand 50.55(e)? 25

1 (By Mr. Johnson) I don't think Mr. Taylor A 2 would have brought it to me. He would have seen it the 3 same way. 4 0 I think Mr. Taylor's testimony indicates? MR. PIRFO: Mr. Chairman, if we're going do 5 6 continue with this, the witnesses have been going for 7 some time. Mr. Sinkin told me five questions ago he only 8 had one question. 9 JUDGE BECHHOEFER: I'm not sure we're going to 10 let you. It's getting a little -- you're not producing 11 very much. 12 MR. PIRFO: That was established eight 13 questions ago. 14 JUDGE BECHHOEFER: I'm not only sure this area 15 deserves anymore questions at all. 16 JUDGE SHON: Why don't we take a break. 17 JUDGE BECHHOEFER: How many more other 18 questions do you have, or, because you've wasted an awful 19 lot of time getting almost nothing on this subject, and due to a basic, I guess, misunderstanding of the 20 21 technical subject. 22 MR. SINKIN: Well, Mr. Chairman, with the 23 introduction of Applicants' Exhibit 77, I may well be on this panel on Tuesday. 24 25 JUDGE BECHHOEFER: You're not going to be

allowed to be asked very many questions on 77. We told 1 you the purpose for which it was being admitted. 2 3 MR. SINKIN: Okay. JUGE BECHHOEFER: Let's try ten minutes. 4 (Recess.) 5 JUDGE BECHHOEFER: Back on the record. 6 MR. SINKIN: Mr. Chairman, I regret we had the 7 long digression to try and clarify what this tech spec 8 and the total heat load were all about. 9 (By Mr. Sinkin) My original question really 10 0 did not intend to ask about that. The original question 11 I was trying to get at is on page 45, answer 134, Mr. 12 Taylor states he believes there was sufficient 13 information in the assessment of question N-17 to make 14 those items a potentially reportable 50.55(e) item. And 15 just to clarify the policy of Region IV, even if that 16 were your opinion at the time, if you had held that 17 opinion -- if you saw Quadrex and held that opinion, I 18 realize you weren't there, but putting yourself in that 19 position, if you held that position that it was 20 potentially reportable and was not notified, there would 21 be no violation. 22 23 (By Mr. Taylor) That's correct. A Mr. Johnson, are you aware of how the Quadrex 24 0

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report came to the attention of the Nuclear Regulatory

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Commission, the full circumstances? 1 2 (By Mr. Johnson) No, sir. I understand the --A some of the circumstances. I'm not sure I could say I 3 4 understand the full circumstances. 5 0 You know that there was an NRC investigation 6 that led to the inspector and the investigator reading 7 the Quadrex report? Are you reterring to 82-02? 8 A 9 MR. PIRFO: This is totally beyond the scope of any direct testimony or any Board questions I heard. 10 JUDGE BECHHOEFER: Or of Applicants' 11 cross-examination. 12 MR. PIRFO: Or Applicants as well, of course. 13 JUDGE BECHHOEFER: Where does this he -- where 14 15 are you going on it? 16 MR. SINKIN: It deals with the questions that were asked about whether there was an intention on the 17 part of the Applicants to conceal Quadrex. And his 18 answer said, "No we'd have found it anyway, these kinds 19 20 of reports can't be hidden, it would have come out," all that kind of stuff. 21 22 JUDGE BECHHOEFER: Okay. (By Mr. Sinkin) You are aware that an 23 Q inspector and an investigator were conducting an 24 25 investigation and that during that investigation, they

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1 read the Quadrex report? A (By Mr. Johnson) Are you referring to 2 inspection, investigation 82-02? 3 No, no, no. 81-28 that Mr. Herr and Mr. 4 0 5 Phillips -- Is that yes, you're aware? I don't recall 81-18. I may have read it but 6 A 7 I'm not sure I remember the details in it. So in giving your answer, you were not aware 8 0 that it was because of an a miscellaneous allegation 9 producing an NRC investigation that the Quadrex report 10 was finally read in its entirety by the NRC, you were not 11 aware of that fact? 12 MR. PIRFO: I object to that characterization. 13 I'm not sure if that's the foundation of why it was or 14 why it wasn't. Mr. Johnson has given what his knowledge 15 of the facts were at that time and that's whatever it's' 16 worht, that's in the record. 17 MR. SINKIN: I'm just trying to establish that 18 he wasn't aware of that the sequence of events I just 19 20 laid out while giving his answer. MR. GUTTERMAN: That sequence of events has 21 some conjecture in it that I don't think is any part of 22 any recognized sequence of events. 23 MR. PIRFO: That's my problem with the 24 25 question.

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1	MR. SINKIN: The sequence of events is clearly
2	documented in 81-28.
3	JUDGE BECHHOEFER: I don't have it in front of
4	me, so
5	MR. GUITTERMAN: I think it's clearly you
6	know, we had 81-28 in the record, Mr. Chairman, and it
7	was discussed
8	JUDGE BECHHOEFER: I'm aware.
9	MR. GUTTERMAN: And it was discussed at some
10	length in Phase I and I think any review of that will see
11	that there is no statement in 81-28 that bears out what
12	CCANP has just said.
13	MR. SINKIN: Well, Mr. Chairman, it was
14	individual A called the NRC with an miscellaneous
15	allegation from a Houston Lighting & Power quality
16	assurance person that led to an investigation and during
17	the investigation, Quadrex was read by the investigators.
18	I think that's known to all parties in this proceeding.
19	MR. REIS: Can we get I guess chere's an
20	objection on the floor.
21	JUDGE BECHHOEFER: Yes, there is.
22	We'll allow at least this one question, I'm not
23	sure we'll allow any
24	MR. SINKIN: This was the only one I have,
25	whether he was aware of that particular sequence of

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events.

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JUDGE BECHHOEFER: And I do it without knowing specifically whether that's accurate or not. I don't have 81-28 in front of me. But to refresh Mr. Johnson's recollection, you can ask the question.

6 A (By Mr. Johnson) I am aware that Mr. Phillips 7 asked for, it was broad category of records. And that's 8 in his testimony. Shortly thereafter, the Quadrex report 9 says, "Here, you can read the whole thing."

I'm also aware that the report was apparently discussed with project manager and I'm aware of the results of the investigation 82-02 which indicate that there was no apparent attempt to covertly, overtly, withhold the report from the NRC; that as much as I know on that subject.

Okay. Now, in discussing the process of 16 0 evaluating whether an item is potentially reportable, you 17 talked about identifying what appears to be a 18 non-conforming problem and then writing up an NCR and 19 going through the whole process of screening and all of 20 that. Do you know if out of the Quadrex report, any 21 documents were generated that would be the equivalent of 22 an NCR? 23

A I don't know of any. Certainly may have been
but, I don't.

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Q Anybody else on the panel know?

2 MR. PIRFO: Mr. Chairman, I think this is all 3 documented in NUREG 0498. I don't know what Mr. Sinkin's 4 driving at.

5 Q (By Mr. Sinkin) I'm talking about at the time 6 Quadrex was delivered in May 1981 whether Houston 7 Lighting & Power generated any documents that were the 8 equivalent of an NCR out of the Quadrex report.

9 A (By Mr. Johnson) I understand the process, and 10 this is typically what's followed by the utilities on 11 quality assurance audits, whether it's HL&P people or 12 Bechtel people doing an audit, they'll issue the audit 13 report, it will have findings there and those findings 14 will be also transcribed on to those documents.

15 That was not part of the contractual 16 arrangement with Quadrex. Utility treated each one of 17 those items, followed them up in the Bechtel task force 18 report, the way that they would have had Quadrex been 19 required under the contract to issue them the report and 20 a stack of, "Here are the individual findings transferred 21 to your HL&P locally prepared forms."

The information is treated in the same fundamental manner, however. But not on those forms. Not that I'm aware of. Some engineer may have written up something which goes through the system, I just don't

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1	know.
2	Q You talked about the relationship of the
3	resident reactor inspector to he's aware of at least
4	important items, knows what's going on in the plant, so
5	that's one of your checks. Is there any resident
6	inspector off site in the headquarters operation in
7	Houston, particularly in the engineering department?
8	A No.
9	We had one for a year during the transition
10	period but that is not part of the NRC's inspector
11	program.
12	Q Do you know if the minutes of the incident
13	review committee, the Houston Lighting & Power incident
14	review committee, are considered quality records that
15	must be maintained?
16	MR. GUTTERMAN: Is the question, the minutes of
17	the incident review committee?
18	MR. SINKIN: That was the first question, yes.
19	We have in evidence here, we have various documents that
20	are the minutes of the IRC.
21	MR. REIS: Mr. Chairman, we have memoranda from
22	the IRC dealing with specific matters. I'm not sure
23	they're minutes.
24	MR. GUTTERMAN: It does say minutes, Mr.
25	Chairman.

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MR. REIS: I withdraw my objection. 1 MR. SINKIN: Says minutes right on them, yes. 2 3 (By Mr. Johnson) I don't know. A (By Mr. Sinkin) Do you know if the 4 0 documentation other than the minutes that the IRC creates 5 as to why they find a potentially reportable finding or 6 don't are quality records? 7 8 (By Mr. Johnson) I would suspect that much of A the material that they review are quality records. They 9 10 probably also review handwritten notes from, you know, one individual to another, those are not guality. But 11 I'm sure NCR's, and calculations, other special reports, 12 will be quality records. 13 I'm really looking at documentation the IRC 14 0 would generate. To your knowledge, is any of the 15 documentation the IRC itself generates quality records? 16 I just don't know. I'd have to examine what 17 A 18 kinds of things they are and I don't know. But in general, the documentation by the 19 0 Applicant of why they reported or did not report a given 20 21 item would that in your view be a quality record that should be maintained? 22 23 The bases for their determination is not A

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specified to be generated or maintained. You know, the

specific -- a specific summary document that says here's

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1 my bases. The quality related documentation, of course, 2 that they would draw on to arrive at that, would be. 3 I guess what I'm looking for is when you want 4 to check on whether they made the right decision, how 5 would you know what quality related records they looked 6 at if the documentation of what they looked at is not a 7 record that you can look at that's maintained? 8 A We're not requiring licensee to maintain 9 records for our convenience. I'm not trying to be 10 facetious. We don't require them to package them up so that we can go to, although for expediency, he often will 11 12 do that with certain categories of records. We require 13 him to maintain the quality documentation. We will question people, "What did you use?" 14 15 We might have to do a fair amount of leg work 16 to track back through that, but the -- those quality records we expect to find but we don't require him to 17 18 maintain a summary record. MR. SINKIN: That's all I have, Mr. Chairman. 19 JUDGE BECHHOEFER: Mr. Axelrad or Gutterman. 20 21 MR. GUTTERMAN: Let's see, I did have one 22 question. **RE-CROSS EXAMINATION** 23 24 By Mr. Gutterman: 25 Mr. Taylor, do you have the Quadrex report in 0

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1 front of you?

2	A Yes.
3	Q It's Applicants' Exhibit 60. I'd ask to you
4	turn to Page 4-61. The question I wanted to ask you is
5	in all the dialogue about the matter reflected in
6	question N-17 which your testimony says you would have
7	felt was potentially reportable, does that relate to
8	finding 4.6.2.1(m) as in Michael, on page 4-61 of the
9	Quadrex reported?
10	A (By Mr. Taylor) It appears that way.
11	MR. GUTTERMAN: Thank you, that's the only
12	question I have.
13	JUDGE BECHHOEFER: The Board has no further
14	questions. Mr. Sinkin, any follow-up?
15	MR. PIRFO: I believe I'm next but I have no
16	questions.
17	CROSS-EXAMINATION
18	By Mr. Sinkin:
19	Q Did your testimony also refer to Quadrex
20	generic finding 3.1(b)?
21	MR. GUTTERMAN: I assume the question is the
22	testimony about
23	MR. SINKIN: About N-17.
24	Q (By Mr. Sinkin) Does your question about N-17
25	also refer to Quadrex finding 3.1(b)?

1	MR. GUTTERMAN: Okay, I'm just concerned that
2	in asking that you're not trying to create the
3	implication that the testimony was that finding 3.1(b)
4	was potentially reportable. But that's
5	MR. SINKIN: Whether 3.1(b) is potentially
6	reportable depends in part on whether the findings within
7	3.1(b) or that support 3.1(b) were reportable.
8	MR. GUTTERMAN: I realize you are arguing that.
9	But his testimony is clear that all he's saying was
10	potentially reportable was a matter related to N-17.
11	MR. SINKIN: And is that matter also found in
12	3.1(b).
13	MR. GUTTERMAN: That's the question I wanted to
14	get clear.
15	A (By Mr. Taylor) I'm at a little bit of a
16	handicap.
17	JUDGE BECHHOEFER: B-2 it is.
18	A I don't have the brief case that this morning
19	that I should have; but let me try and outline how I did
20	all of this and maybe it will be self answering. I took
21	the individual board finding and associated with mine,
22	took all of the references that were associated with that
23	generic finding, captured them all into a package, so if
24	I knew if I had that package I could get back to it very
25	quickly but I don't have it.

1	Q (By Mr. Sinkin) Well, Mr. Taylor, your
2	testimony at Page 44 indicates it was responsive to
3	generic finding 3.1(c), and I'm trying to determine if it
4	was also responsive to 3.1(b).
5	MR. GUTTERMAN: I'm now confused by the
6	question again.
7	MR. SINKIN: Mr. Taylor's testimony at answer
8	131 while addressing this item 4.6.2.1(n) Wait a
9	minute. Wait a minute.
10	A (By Mr. Taylor) I think I can answer your
11	question.
12	MR. PIURFO: No.
13	Q (By Mr. Sinkin) Let me start with from the
14	beginning. You were asked whether your testimony
15	addressed 4.6.2.1(m) as in Michael. Is that correct?
16	And you said yes.
17	MR. GUTTERMAN: Wait, wait, wait. I think the
18	question now is mischaracterizing the question that I
19	asked on.
20	MR. SINKIN: You asked the question whether his
21	discussion on N-17
22	MR. GUTTERMAN: No. What I asked him was the
23	matter that he testified he believed he would called
24	potentially reportable was the matter addressed by
25	finding 4.6.2.1(m) as in Michael.

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1	MR. SINKIN: I see. I see. Okay. So okay,
2	fine. I'll withdraw the question. That's all I have.
3	JUDGE BECHHOEFER: Anyone have further
4	questions? I guess the panel is excused. Thank you for
5	bearing with us all.
6	(No hiatus.)
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1	MR. AXELRAD: Mr. Chairman, if we can have a
2	ten-minute recess, we may be able to obviate the need to
3	argue a motion that we were going to present to quash
4	the subpoena of Mr. Thrash.
5	So, if I could suggest a ten-minute recess.
6	Otherwise, we can come back at that point and I will
7	make my motion and
8	JUDGE BECHHOEFER: We'll give you the
9	ten-minute recess, but if we start packing up, don't
10	MR. SINKIN: Don't take offense.
11	(Brief recess taken.)
12	JUDGE BECHHOEFER: Back on the record.
13	MR. AXELRAD: Mr. Chairman, the parties have
14	reached an agreement with respect to Mr. Thrash.
15	As I have explained to Mr. Sinkin, I have not
16	been able to reach Mr. Thrash. He is traveling
17	somewhere between Colorado back, I believe, to Texas,
18	probably to Beaumont. And from what I understand, he is
19	scheduled on Tuesday to go back to San Francisco on the
20	way back to Hawaii which is where he now lives. So, he
21	would not be able to appear next week, to my
22	understanding.
23	But in any event, CCANP and Applicants have
24	reached an agreement that CCANP and we will seek to
25	develop questions with respect to the notes of the four

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meetings that Mr. Thrash took which are reflected in the
 Board s ruling at pages 14903 and 14904 of yesterday.
 We will seek to develop questions which are relevant and
 material to the issues in this proceeding.

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5 If we can reach an understanding as to those questions, those questions would then be sent to Mr. 6 Thrash to be answered in an affidavit which would be 7 made part of the record. If we cannot reach an 8 understanding as to such questions, the parties will 9 10 then propose to the Board the questions they think are relevant and material and the Board will then be able to 11 decide which questions Mr. Thrash should answer by 12 13 affidavit. Hopefully, we can reach an agreement so that the Board will not have to rule on that basis. 14 Am I correct in reflecting our understanding? 15 MR. SINKIN: That's fine. 16 MR. REIS: The Staff has no objection. 17 18 JUDGE BECHHOEFER: That sounds okay to us. MR. AXELRAD: I might add just one last 19 thing. I'm not sure in view of -- we will try to 20 discuss this subject early next week and develop those 21 questions. I'm not sure how long it will take to get 22 the questions to Hawaii and get them answered. So, the 23 responsive affidavit may well come in after the record 24 25 is closed next week. But we assume the record will stay

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	15104
1	open for the limited purpose of receiving that
2	affidavit.
3	MR. SINKIN: Yes.
4	MR. REIS: The Staff's lack of objection is
5	predicated on the basis that the record would remain
6	open only for that limited purpose and not for any other
7	purpose.
8	JUDGE BECHHOEFER: The Phase II record we're
9	talking about.
10	MR. SINKIN: Yes.
11	MR. REIS: Yes.
12	JUDGE BECHHOEFER: I think that's fine.
13	MR. AXELRAD: Thank you, Mr. Chairman.
14	JUDGE BECHHOEFER: We're adjourned until we
15	9:00 o'clock next Tuesday right in this room.
16	(Hearing recessed at 11:33 a.m.)
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TATE REPORTING

CERTIFICATE OF OFFICIAL REPORTERS

2		
3	This is to certify t	hat the attached proceedings before
4	the UNITED STATES NU	CLEAR COMMISSION in the matter of:
5		
6	NAME OF PROCEEDING:	EVIDENTIARY HEARING
7		HOUSTON LIGHTING AND POWER COMPANY, ET AL (SOUTH TEXAS PROJECT, UNITS 1
8		AND 2)
9	DOCKET NO.:	STN 50-498-OL STN 50-499-OL
10		
11	PLACE:	HOUSTON, TX
12	DATE:	Friday, August 9, 1985
13		
14	were held as herein	appears, and that this is the
15	original transcript	thereof for the file of the United
16	States Nuclear Regul	atory Commission.
17		
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19		R. Pates lates
20		R. Patrick Tate, CSR
21		Susan R. Goldstein, CSR
22		Official Reporters
23		OLLIGIGI REPOLLELD
24	12.1.1.1.2.1.2.	
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