## OFFICIAL TRANSCRIPT PROCEEDINGS BEFORE

NUCLEAR REGULATORY COMMISSION

BEFORE THE ATOMIC SAFETY AND LICENSING BOARD

DKT/CASE NO. 50-322-OL

TITLE

LONG ISLAND LIGHTING COMPANY (Shoreham Nuclear Power Station)

PLACE

Bethesda, Maryland

DATE November 19, 1982

PAGES 14,590 - 14,712

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1	UNITED STATES OF AMERICA
2	NUCLEAR REGULATORY COMMISSION
3	BEFORE THE ATOMIC SAFETY AND LICENSING BOARD
4	x
5	In the Matter of :
6	LONG ISLAND LIGHTING COMPANY : Docket No. 50-322-0
7	(Shoreham Nuclear Power Station):
8	x
9	
10	Bethesda, Maryland
11	Friday, November 19, 1982
12	The hearing in the above-entitled matter
13	reconvened, pursuant to recess, at 9:00 a.m.
14	BEFORE:
15	LAWRENCE BRENNER, Chairman
16	Administrative Judge
17	JAMES CARPENTER, Member Administrative Judge
18	PETER A. MORRIS, Member
19	Administrative Judge
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1	SINIENIS									
2 WITNESSES:	DIRECT CROSS REDIREC	T RECROSS BOARD								
3 Edward J. Youngling,										
Arthur R. Muller and Joseph M. Kelly (Resumed)										
5 By Mr. Dynner 14,624										
By Mr. Ellis	14,67	,								
7										
8	EXHIBITS	BOUND IN								
NUMBER	IDENTIFIED RECEIVED	TRANSCRIPT								
Suffolk County 83	14,626	14,627								
Suffolk County 84	14,626	14,627								
13 Suffolk County 85	14,626	14,627								
14 Suffolk County 86	14,626	14,627								
15 LILCO 38	14,680	14,681								
16										
17 RECESSES:										
18 Morning -	14,634									
19	14,672									
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1	2 B C C E E O I N G S
2	(9:00 a.m.)
3	JUDGE BRENNER: Good morning.
4	Let's talk about emergency planning for a
5	moment. First of all, I recited yesterday the
6	conversations my secretary had with Mr. Shapiro, and we
7	received word through the County that a representative
8	of SOC will be at the conference on Tuesday at 10:30. I
9	would appreciate it if the County could contact Mr.
10	Shapiro by telephone today and inform him that the
11	conference has definitely been set for 10:30 on Tuesday.
12	He stated that he would not attend,
13	regardless. As I stated yesterday, however, at the time
14	of those conversations, my secretary explained to him
15	that the time and place had not been definitely
16	reconfirmed or reestablsished. And since we did that
17	subsequent to it, just in case he has a change of mind,
18	I would like very much or him to know where we are going
19	to be and when. We still have received no filing from
20	Mr. Shapiro, and as it is a day late past the deadline,
21	we are going ahead without it.
22	In that regard, we have determined that we do
23	have the authority to require the prehearing
24	examinations along the lines we previously suggested.
25	We will have a written ruling issued on or before

- 1 Tuesday explaining the detail once again, and there
- 2 should be no surprises in there but it will set it out
- 3 so that everyone can understand what it is we are
- 4 ordering.
- 5 As we also explained, we will encourage
- 6 discussion as to the procedural implementation of the
- 7 process on Tuesday, so there is some flexibility on that
- 8 notwithstanding what might be in the order, but there is
- 9 no flexibility on the requirement to go ahead with the
- 10 prehearing examinations.
- In light of that, we would like to ask the
- 12 County if it is still their position that they are going
- 13 to default without regard to whether we have the
- 14 authority or not, now that we have concluded that we do
- 15 indeed have the authority.
- 16 MR. LANPHER: Judge Brenner, "default" is your
- 17 word.
- 18 JUDGE BRENNER: Not participate at all.
- 19 MR. LANPHER: That is the County's position.
- 20 JUDGE BRENNER: All right. As explained in
- 21 the order, if that is your position you will be in
- 22 default. Whether or not we go ahead and rule on the
- 23 other motions on Tuesday, we will consider the matter.
- 24 We are not precluding the fact that we might rule in any
- 25 event to establish a record. I don't have to get into

- 1 the fact -- you can get into it before some other body
- 2 scmeday if you wish -- that the County has ample
- 3 appellate procedures and avenues before us other than a
- 4 default, and I will term it a default -- you can term it
- 5 what you like -- including a request to us to certify
- 6 the matter while proceeding with it and so as to still
- 7 preserve your rights to get a quick ruling and then
- 8 participate in a hearing before us.
- 9 If you had been successful in overturning our
- 10 ruling, all that would have been lost would have been
- 11 some days of depositions which would have served a good
- 12 discovery purpose, in any event. But the County is
- 13 obviously not proceeding that way, and it is our view
- 14 that, given the County's posture, even if we are wrong
- 15 on the authority question in the end, which we don't
- 16 believe we are, the County is in default in any event
- 17 because it is proceeding incorrectly in advancing its
- 18 view on our authority through the proper appellate
- 19 channels.
- 20 What I am telling you is that we would have
- 21 been willing to seriously consider a request to get a
- 22 quick appellate ruling, if that is what the County
- 23 wished, while at the same time proceeding with the
- 24 process. That is up to the County.
- In light of the County's position, we will

- 1 hold the conference in any event, the minimum important
- 2 reason being to make sure that we are communicating, and
- 3 the County will have the benefit of the written order
- 4 and any dialogue it wishes to engage in with us or
- 5 before us so that we can be very sure we do not have a
- 6 failure in communication before the County is declared
- 7 in default.
- 8 In addition, we want to ascertain SCC's
- 9 position. If the other parties wish the Staff and LILCO
- 10 to orally set forth its position on how we should
- 11 proceed given the County's position, we would be willing
- 12 to consider that. Whether it affects our judgment or
- 13 not is another thing. It might be a very short
- 14 conference. Then again, as Judge Morris points out, it
- 15 might make for a longer conference.
- 16 All right. We have no other preliminary
- 17 matters. Do you want to talk about time estimates or
- 18 anything?
- 19 MR. ELLIS: Yes, sir. Would you like to do
- 20 that on the record?
- JUDGE BRENNER: Yes.
- 22 MR. ELLIS: Judge Brenner, yesterday I had
- 23 suggested at the conclusion that perhaps we could
- 24 consider next week to complete the DQA, which it now
- 25 appears likely, if not certain, that will not be

- 1 completed today, and Mr. Dynner indicated that he would
- 2 check to see whether he could do it. We appreciated
- 3 that. It now appears that there are some final
- 4 activities going on for the plant involving these
- 5 individuals that had been long planned for next week,
- 6 and therefore, though I suggested it, we cannot do it.
- 7 We will simply have to come back and finish the next
- 8 week here in Bethesda.
- 9 JUDGE BRENNER: Okay.
- 10 MR. BORDENICK: Judge Brenner, I had a
- 11 preliminary matter on the QA/QC contentions. This is
- 12 with respect to --
- 13 JUDGE BRENNER: Torrey Pines?
- 14 MR. BORDENICK: No. I owe you something on
- 15 Torrey Pines. This is not in that regard.
- 16 JUDGE BRENNER: I was going to ask you for
- 17 that next, if that is all right.
- 18 MR. BORCENICK: That is fine.
- 19 This has to do with the Staff panel and the
- 20 prefiled testimony. It has become apparent to me in the
- 21 last several days that there is at least a potential for
- 22 some misunderstandings at the time that the Staff panel
- 23 takes the witness stand. The way that now appears, it
- 24 is certainly going to be on or after December 1st.
- 25 probably well after the 1st.

- In any event, I think there may be some
- 2 confusion in people's minds or there may be a potential
- 3 for confusion in people's minds as to just what the
- 4 Staff's review on DQA has entailed. I don't know
- 5 whether the Board and the parties have a copy of the
- 6 Staff's prefiled testimony. If you don't, it is really
- 7 not necessary. I can more or less summarize the
- 8 situation.
- 9 JUDGE BRENNER: I always carry it close by.
- 10 MR. BORDENICK: Pages 29 through 31 and
- 11 beyond. The Staff address Contention 13. When we talk
- 12 about Staff review, as I think is apparent to everyone
- 13 in the room, we are talking about two arms of the
- 14 Staff. One is NRR, one is I&E or the Region. If you
- 15 look at the testimony, you will see that as far as the
- 16 NRR review is concerned, that is and was completed at
- 17 the time of filing of the testimony. If you look at
- 18 page 31 where the witness from the Region speaks, he
- 19 stated, "As stated in the response to Question 23" --
- 20 and that is a typographical error, it should be Question
- 21 24 -- "QA program description forms a foundation from
- 22 which a manual and implementing procedures are developed
- 23 which describe in detail how to carry out program
- 24 commitments.
- The NRC Region 1 Office reviews and evaluates

- 1 both the QA manual and QA implementing procedures for
- 2 acceptability and for conformance with both 10 CFR 50,
- 3 Appendix B and FSAR commitments. This review will be
- 4 completed prior to fuel load."
- I thought it might be well, since, among other
- 6 things, he was in town, for Mr. Richard W. Starostecki,
- 7 who is the Director, Division of Project and Resident
- 8 Programs in Region 1, to briefly explain to the Board
- 9 and parties what the Staff -- again, in this instance
- 10 being the Region -- has and hasn't done by way of a
- 11 review of the LILCO OQA manual and procedures.
- 12 With the Board's indulgence, I would like to
- 13 have Mr. Starostecki briefly address the Board in that
- 14 regard.
- 15 JUDGE BRENNER: I don't have any objection if
- 16 the parties don't. It is not testimony under oath and
- 17 we won't cite it for any findings. It is just an
- 18 explanation of the scope of things.
- 19 MR. BORDENICK: That is right. I am really
- 20 trying to obviate some potential misunderstandings that
- 21 might crop up at the time that the panel takes the
- 22 witness stand, and I think it would be well for the
- 23 Board and parties to know just what it is that the Staff
- 24 has or hasn't done.
- 25 JUDGE BRENNER: Well, we will certainly be

- 1 happy to hear from Mr. Starostecki in a second. I don't
- 2 want to engage in a dialogue now, but as counsel, you
- 3 should know and I am sure you do know that regardless of
- 4 what schedule IEE might have preferred in terms of its
- 5 normal administrative duties and its responsibilities as
- 6 it defines them for itself, there is ample case law on
- 7 the question of deferring beyond the litigation, beyond
- 8 our decision, material matters bearing on issues in
- 9 controversy.
- 10 So if it is going to be the Staff's position
- 11 that there are things they are not going to get to until
- 12 after the litigation, we will have to take a look, and
- 13 we will seek the Staff's own analysis and advice as to
- 14 the extent to which it affects matters in controversy.
- 15 And you know what is in controversy as to the QA manual
- 16 and the CA implementing procedures. It is squarely in
- 17 the contention preliminarily, in my view.
- 18 MR. BORDENICK: Judge Brenner, I am not
- 19 suggesting that it is not within the contention and I'm
- 20 not suggesting that the case obtains as you have just
- 21 described it. The Staff is suggesting that we defer
- 22 anything until after the completion of litigation. That
- 23 is not, at least as I understand it, what Mr.
- 24 Starostecki is going to explain.
- 25 JUDGE BRENNER: Well, let's let him explain,

- 1 then.
- 2 MR. STAROSTECKI: Thank you.
- 3 JUDGE BRENNER: Welcome back to Bethesda.
- 4 MR. STAROSTECKI: Thank you. I sometimes
- 5 wonder if it is worthwhile to come back. I volunteered
- 6 for various tasks.
- 7 One of the issues that has been coming up
- 8 lately is the issue of schedules, and I talked to
- 9 counsel with a view of being responsive to the Board.
- 10 So what I would like to do is just very briefly indicate
- 11 the relative roles of the people in the Region and the
- 12 time frame we are talking about for completing the
- 13 review of the operational CA procedures.
- 14 In numerous instances up until this point in
- 15 time, we have had inspectors, and particularly the
- 16 senior resident inspector, reviewing pre-operational
- 17 test programs, reviewing things like maintenance of
- 18 equipment and storage to which QA program and procedures
- 19 apply. So we have had a snapshot, if you will, of some
- 20 of the procedures so that people can be knowledgeable at
- 21 least of a small aspect of the program.
- 22 However, irrespective of any hearings, we
- 23 still are required to look at all administrative
- 24 procedures, including operational QA; and to do that, we
- 25 establish a team of about five or six people. In fact,

- 1 we are collecting information next week from the site.
- 2 We will do an in-office review and then we culminate
- 3 with two weeks on the site.
- 4 This team visit, which includes a senior
- 5 resident, is scheduled to be held December 6th through
- 6 the 17th. That presumes all members of the team, and I
- 7 am particularly interested in the resident inspector
- 8 being available for at least a week of that. After the
- 9 December 17th, we obviously at least will be able to
- 10 speak to some of the issues, but the report will not be
- 11 put together in final fashion until, I think, early in
- 12 1983.
- 13 The extent to which people will be able to
- 14 address operational QA before then, I have to say, is
- 15 limited to individuals who have to work with those
- 16 procedures and does not represent what I would consider
- 17 team review. Then the operational QA, again, is a part
- 18 of a bigger process to look at administrative controls
- 19 and administrative procedures used at the Shoreham
- 20 station.
- 21 As a point of reference we also in the Region
- 22 are meeting with the licensee on Monday to discuss
- 23 various other issues affecting fuel load and will advise
- 24 counsel of any additional problems we may have, but it
- 25 is the scheduling problem that I see is difficult to

- 1 explain in that we schedule these team reviews and these
- 2 inspections on a cuarterly basis, and we have come up
- 3 with the Shoreham schedule at this time because it is,
- 4 in my view, at least, several months in advance of fuel
- 5 load, and it is, in our view, trying to be responsive to
- 6 the Board's need for information without jeopardizing
- 7 our inspections at the other facilities.
- So we do have a need to juggle our resources.
- 9 We do have priorities. Shoreham is one of the higher
- 10 priority plants we have in the Region, but for me at
- 11 this time to say, to accelerate any kind of review I
- 12 think would maybe generate additional information in the
- 13 short term but may delay the process because of the
- 14 inability to get that overall perspective.
- 15 I hope that provides some additional
- is information on the schedules and the ability of
- individuals to testify on the matter.
- 18 MR. BORDENICK: Judge Brenner, could I in
- 19 effect sum up what the Staff is saying? We are
- 20 certainly prepared to go ahead as scheduled. I think
- 21 any potential conflicts regarding Mr. Higgens can be
- 22 worked out amongst the parties. We are essentially
- 23 prepared to go ahead with our panel as scheduled when
- 24 the appropriate time arises, but as regards at least
- 25 what I anticipate would be some of the types of

- 1 questions that might be posed to the panel regarding,
- 2 well, similar type questions that were posed, for
- 3 example, to the LILCO panel which is before us today, I
- 4 think the witnesses will be able to respond to these
- 5 questions; but I am afraid it is not going to be what
- 6 one might term the final Region response.
- 7 JUDGE BRENNER: They are going to be in big
- 8 trouble if they don't know the procedures. That is
- 9 clear. Big trouble in the sense that their answers will
- 10 be "I don't know," "I don't know," and "I don't know,
- 11 give me a moment."
- 12 MR. BORDENICK: Well, I am not so sure that
- 13 will be the case, Judge Brenner. I think certainly the
- 14 resident is already familiar with some of these
- 15 procedures. It might be the case in some instances, but
- 16 I don't think it is going to be the case in all
- 17 instances. But then again, it is the type of process
- 18 where the scheduled inspection which Mr. Starostecki has
- 19 described may uncover some new information which may or
- 20 may not affect whatever it is these witnesses respond to
- 21 at the hearing by way of questions from the County or
- 22 the Applicant.
- 23 JUDGE BRENNER: Well, it is possible that the
- 24 Staff, given its knowledge of other procedures it has
- 25 looked at at other plants and its own ideas of

- 1 procedures developed over the years, may have
- 2 significant recommendations or even directions in its
- 3 view to LILCO for rewriting some of those procedures,
- 4 for all I know.
- 5 MR. BORDENICK: I think that may well be the
- 6 case.
- 7 MR. STAROSTECKI: I agree, and that is why we
- 8 prefer to have a team of people from the Region to
- 9 supplement the resident. It is the other inspectors
- 10 that go see those procedures. As a matter of point, we
- 11 just recently finished the Susquehanna facility, and we
- 12 had to expend an awful lot of resources in support of
- 13 that case also.
- 14 JUDGE BRENNER: No one has any quarrel with
- 15 what you want to do. What I am surprised at is the
- 16 schedule. This issue has been scheduled, and in fact,
- 17 we were here long after the time we thought we would
- 18 still be litigating it. I don't understand why the
- 19 Staff didn't proceed with this in August or September.
- 20 You don't have to tell me, but that is what I don't
- 21 understand.
- MR. STAROSTECKI: In August and September we
- 23 were pursuing an issue with the Susquehanna facility.
- 24 We have limited resources. I just cannot apply
- 25 resources to other facilities where there is creat

- 1 interest in completing a phase of the plant review.
- 2 JUDGE BRENNER: We were not advised and there
- 3 were things that could have been done, including
- 4 emergency planning issues moved up and deferring this
- 5 issue. Every time one little thing shifts in this
- 6 proceeding, it is as if this case is a Rube Goldberg
- 7 machine. You move one thing and then everything touches
- 8 another. I suppose if I was kinder, I would call it the
- 9 Domino Theory of Litigation. And all the parties know
- 10 that. And for us to be told at the end of November as
- 11 to what still is undone is just too late for us to adapt
- 12 and be as flexible as we would like to try to be in
- 13 taking due cognizance of the Staff's responsibilities
- 14 and also due process to the Utility, due process to the
- 15 County and other intervenors.
- 16 Is this as surprising to everyone else as it
- 17 is to me, this schedule of what is going on, LILCO and
- 18 the County?
- 19 MR. ELLIS: Yes, it was a surprise to me
- 20 personally when we first learned about it. I think,
- 21 though, to put a little bit different perspective on it,
- 22 one of the reasons, well, one of the things that I think
- 23 is important to point out, and I think Mr. Starostecki
- 24 referred to it. he says that the knowledge of the
- 25 procedures in the manual, he called it limited to

- 1 individuals who have worked with these procedures, and
- 2 we are aware that these individuals have been to the
- 3 site and they are aware of these procedures and they
- 4 have worked with them, and that is information I have
- 5 gotten from our people.
- 6 So we have naturally assumed that they were
- 7 deeply involved. Indeed, I am told that the resident
- 8 has his own manual and uses it, and I think we can
- 9 assume that they are knowledgeable about these
- 10 procedures and the manual. Mr. Starostecki referred to
- 11 the team review. I confess I wasn't familiar with the
- 12 team review concept, but it seems to me that they are
- 13 certainly knowledgeable about it, and I would be very
- 14 surprised if the string of "I don't know's" came as a
- 15 result of questions.
- 16 JUDGE BRENNER: Well, I exaggerated, and Mr.
- 17 Starostecki put it as I would expect him to put it. But
- 18 what he is trying to tell you is that while he has
- 19 people who know their procedures, including the resident
- 20 inspector, he doesn't have the kind of multi-thorough
- 21 review that he intends to complete so that the Staff can
- 22 take a step back and see in the total complex what kind
- 23 of improvements they want to recommend, which
- 24 improvements, or maybe they will have none, but the
- 25 result of which review could change what is before us,

- 1 that is, the procedures and the manual chapters.
- 2 So he is not saying that he doesn't have
- 3 witnesses who know. I may be exaggerating, but I think
- 4 his message is quite clear. I can interpret his words
- 5 very well.
- 6 County, I don't know if you have anything to
- 7 say.
- 8 MR. LANPHER: Judge Brenner, we were aware of
- 9 the testimony. We didn't know the schedule, however, as
- 10 to when it would be done. I don't think we have
- 11 anything to add.
- 12 JUDGE BRENNER: I was aware of the testimony
- 13 too, but it was filed back in June; and given the
- 14 schedule we were proceeding on, and not having heard
- 15 anything different, I assumed that there would be
- 16 completion of what the Staff was going to do before us
- 17 on the schedula, especially given the length of the
- 18 schedule and the fact that we are litigating these
- 19 matters now rather than a month or more ago.
- 20 MR. LANPHER: I guess, Judge Brenner, the one
- 21 thing that I would add, one thing, frankly, that we were
- 22 going to pursue at the appropriate time is, given the
- 23 fact that IEE hasn't reviewed what we think are very
- 24 important elements of the GA program, key elements, why
- 25 this wasn't listed as an SER open item.

1		JUDGE	BRENNER:	When were you	going to bring
2	this up	, in your	own good	time also?	
3		MR. LA	NPHER: It	t is in Mr. Hu	bbard's
4	testimo	ny, so I	guess we h	nave brought i	t up, and we were
5	going t	o ask the	m on cross	s-examination	about their
6		process.			
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- JUDGE BRENNER: I don't want to get into
- 2 interpretations of contentions in great detail, but
- 3 anyone who knows anything about the QA plans of this and
- 4 other utilities and the staff's prior reviews,
- 5 understands that when an intervenor is coming in and
- 6 contending that the program is not laid out sufficiently
- 7 in the FSAR then an important part of the case is going
- 8 to be the implementation of the FSAR which is through
- 9 the manual and the procedures. And anybody who couldn't
- 10 predict that the witnesses for LILCO at least were going
- 11 to expend a good deal of their effort focusing on what
- 12 they deemed to be proper implementing mechanisms, which
- 13 are the manual and the procedures, is very naive. So I
- 14 will leave it at that.
- 15 People should have known that the case was
- 16 going to end up on contention 13, importantly involving
- 17 the procedures in the manual. We knew it from reading
- 18 the contention, and particularly, after reading the
- 19 testimony.
- 20 MR. BORDENICK: Judge Branner, can I just add
- 21 one further observation? I don't know what percentage
- 22 of the total QA/QC contentions package we're talking
- 23 about. I think it's a fairly small percentage as far as
- 24 the subject matter we've been discussing this morning.
- In my mind, cartainly there's going to be the

- 1 problem of what is the staff's final position as regards
- 2 the wording of a given procedure. But it seems to me
- 3 that the schedule that Mr. Starostecki has given us this
- 4 morning, when compared to other developments, unrelated
- 5 developments on QA/QC such as the Torrey Pines report
- 6 and the Teledyne report, which in effect is going to
- 7 preclude the closing of the record on QA/QC in any event
- 8 --
- 9 JUDGE BRENNER: Well, we have not made that
- 10 decision. Let me point that out. That's your statement.
- 11 MR. BORDENICK: I say that's my observation.
- 12 I recognize the Board has not made that particular
- 13 decision. But to the extent that we have a problem and
- 14 except insofar as the precise wording of a given
- 15 procedure, I don't think that the problems, if any, are
- 16 that significant in the overall context of the QA/QC
- 17 procedures.
- 18 I did went to point out one other thing. Mr.
- 19 Starosticki mentioned to me in connection with the
- 20 region's allocation of resources back -- and I'm not
- 21 sure of the timeframes because I was not involved with
- 22 the emergency planning contentions, but the region did
- 23 speed up a program at the site to accommodate the filing
- 24 of contentions.
- 25 So that's another complicating factor in the

- 1 whole process.
- JUDGE BRENNER: Well, I think it was important
- 3 at the time, given the proposed settlements that
- 4 occurred thereafter. And that was one of the reasons we
- 5 talked about it, and we appreciated that at the time.
- 6 MR. ELLIS: Couldn't the staff expedite their
- 7 review, and we take construction QA staff first? And
- 8 then take the DOA staff?
- 9 JUDGE BRENNER: Well, there are a couple of
- 10 options, some of which have occurred to us, and what we
- 11 want the parties to do is to think about it, and we
- 12 would be willing to even talk about it at the end of the
- 13 day today, if we end the testimony a little earlier than
- 14 we had planned, or on Tuesday. But on Tuesday, you
- 15 might have different people there, so you might prefer
- 16 to do it here.
- 17 One option is along the lines that Mr. Ellis
- 18 started to suggest; to carve out the DQA aspect, the
- 19 procedures aspect. To the extent you think other
- 20 aspects are involved with it, we will hear from you,
- 21 such as staffing of the UQA organization. I don't know
- 22 what the staff sees as the connection or the lack
- 23 thereof or the extent to which that, too, is going to be
- 24 part of the review. But think about it. You don't have
- 25 to tell us now.

- 1 We would go ahead with construction QA, the
- 2 non-DCA matters. If we carved out DQA, I think we
- 3 should consider whether or not the OQA portion of Mr.
- 4 Hubbard's testimony should similarly be deferred. That
- 5 is, we wouldn't examine Mr. Hubbard on OQA either. He
- 6 could have the benefit of the staff's further work to
- 7 factor into his thinking, too. Then come back and do it
- 8 on a schedule to be developed.
- 9 Let me also point out that the schedule we're
- 10 in, if the inspection is moved up even one week, that
- 11 may not seem like a lot of time but it could make a
- 12 difference here, particularly given the overlap because
- 13 you're going to have staff witnesses involved in this
- 14 proceeding.
- I recognize they will not be the same people,
- 16 but to the extent you involve the witnesses that you're
- 17 going to put on here in what is going on in this review,
- 18 that's going to very valuable. Now, whether that means
- 19 I'm going to add to the witness panel here we're
- 20 planning so that you build in that involvement, so to
- 21 speak, is up to the staff.
- 22 But if we're going to lock for this as a
- 23 valuable source of information -- and it is a
- 24 potentially valuable source -- you would want to factor
- 25 in the right paople. Because if things get too spread

- 1 out in the communication chain, that becomes a problem.
- 2 You may be assisted in doing that if you move this up
- 3 one week because that week, Mr. Hubbard will be on the
- 4 stand.
- In addition to that, the sooner we can get
- 6 this back before us, the better. It is that simple.
- 7 Remember, it is not just the staff's inspection and then
- 8 the delay, necessary delay, time lag for its report. It
- 9 is then the ability of the parties to read the report
- 10 and to focus their thinking.
- An obvious possibility is to move some of the
- 12 other issues up, such as inadequate core cooling, ahead
- 13 of DQA, and any other safety matters that remain. We'll
- 14 know more about emergency planning after next Tuesday.
- 15 MR. BORDENICK: Judge Branner, I was just
- 16 going to interject that Mr. Starostecki says that he
- 17 will look into and make every effort to at least move up
- 18 that full review by a week. So that --
- 19 JUDGE BRENNER: You can give him the detail to
- 20 include whether you agree or disagree with me that it
- 21 could make quite a difference, given where we are now in
- 22 the proceeding.
- 23 MR. BORDENICK: It conceivably could. And
- 24 also, I think you alluded to something that's been in
- 25 the back of my mind as a result of that full

- 1 inspection. We might want to add -- I know one
- 2 particular individual that will be on that team that we
- 3 might add to the panel just for that limited purpose.
- 4 JUDGE BRENNER: Yes. One advantage would be
- 5 that you would only be separating out the CA issues, so
- 6 you wouldn't tie up all your people all the time. We
- 7 would finish the construction QA matters.
- 8 There may be some good in all this, too.
- 9 Yesterday we urged the parties to continue talking about
- 10 areas of CA, and we were focusing in part on the
- 11 procedures in the QA Manual and improvements that are
- 12 possible in detail that are very cumbersome to litigate
- 13 before us, even though they had been litigated by
- 14 example before us.
- 15 This may be an opportunity to combine
- 16 discussions among the parties along with the staff's
- 17 review, and I'm sure you can all be imaginative as to
- 18 how that could take place. But the message is to make
- 19 sure to involve the county to the extent to which they
- 20 are entitled as a minimum, and perhaps beyond that in
- 21 the sense of discussions. You've got the record partly
- 22 educed already. We will have more of it educed today at
- 23 some point and continuing after next week.
- 24 So you can focus on where the interest might
- 25 be; the staff can. And then after the review or even

- 1 during the review, parties, through counsel and in
- 2 addition, through technical people, can keep talking and
- 3 see what develops. And that way, when the staff comes
- 4 out with its result and review, it will have anticipated
- 5 some areas of concern, even though you may continue to
- 6 disagree. At least you will be meshing on the issue.
- 7 In addition, you might be able to accommodate
- 8 joint things with LILCO, of course, heavily
- 9 participating.
- 10 MR. BORCENICK: Judge Brenner, I fully agree
- 11 with that. I have listened to some discussions between
- 12 counsel for applicant and the county and the Board's
- 13 discussion yesterday, and my personal view is that the
- 14 issue of what the final DGA procedures should look like,
- 15 even though it's been partially litigated, is certainly
- 16 one that can and should be settled. Knowing both these
- 17 parties, I think that they would do that, and the staff
- 18 will lend every effort to try to accommodate that.
- 19 So as you point out, there may be some good in
- 20 all of this in that regard.
- 21 JUDGE BRENNER: One thing that occurs to me is
- 22 on some of the past settlements, the staff did not get
- 23 active right from the beginning for reasons that we
- 24 recognize. That is, the staff had completely finished
- 25 its review and written its report and knew its position

- 1 quite well, so the staff allowed the parties to thrash
- 2 it out a little bit and then came in to assess the
- 3 potential settlements against what the staff's
- 4 well-established position had been.
- 5 I understand why in those circumstances it
- 6 made sense to proceed that way. In this case, since the
- 7 staff is in the midst of part of its review, I
- 8 understand that a lot has taken place, as described, but
- 9 it is closing in on things once again now through the
- 10 team effort just described. Staff could serve as a very
- 11 useful catalyst, I think. We will leave it to the
- 12 parties.
- 13 All right. In terms of how we should schedule
- 14 things here, let's think about it and maybe come back at
- 15 the end of the day today or even a little later, but it
- 16 would be better if we could get a handle on some of the
- 17 more immediate things today. Give me one moment on
- 18 something else.
- 19 (Board conferring.)
- 20 We want to add one thing on our own. An
- 21 important factor when we set the Torrey Pines testimony
- 22 schedule was looking at when we wanted to finish this
- 23 issue for the reasons we discussed. And we think it was
- 24 important to keep the record together. It was important
- 25 to us as the tryers of fact because we wanted to follow

- 1 very closely what happened. We also very much want the
- 2 county's assistance in looking at Torrey Pines on the
- 3 record here.
- 4 So why den't you consider what flexibility we
- 5 now have in that filing, but be reasonable. Let me tell
- 6 you again, your original proposal was just too long, Mr.
- 7 Lanpher. But if we move up inadequate core cooling to
- 8 right after construction QA here, you consider when Mr.
- 9 Hubbard might be done here, and you think about what
- 10 flexibility you have in not needing to have him
- 11 immediately at your side for all of the staff's cross
- 12 and see if you can come up with a mutually-agreeable --
- 13 or in the absence of that, the county's proposed date
- 14 for the filing of testimony on Torrey Pines.
- In addition, we strongly encourage that you
- 16 take a deposition before the filing of testimony, or
- 17 very shortly thereafter. We will leave that up to the
- 18 parties to work out, also. There are advantages both
- 19 ways. We would prefer it before so that we get
- 20 well-scoped testimony.
- 21 And it's important because we think the Torrey
- 22 Pines report, if there are not major flaws in it -- and
- 23 we will hear about if there are -- may have
- 24 accomplished, at least as to part of the plant and part
- 25 of the subject matter, something that the county has

- 1 been advocating, and we would like to hear about it.
- 2 And it gives us the ability to assess what was done.
- 3 We now have some concrete thing that was done
- 4 to match up against the testimony of going back to 78 as
- 5 to what type of approaches should be taken in the
- 6 different views of the different parties.
- 7 But we're talking about flexibility of weeks
- 8 from our previous schedule, not months. So consider
- 9 that when you get together on a proposal.
- 10 MR. LANPHER: Judge Brenner, we will discuss
- 11 that and hopefully, be able to get back to you by the
- 12 end of the day. And as we said before, we are eager to
- 13 participate on Torrey Pines, and hopefully, this will
- 14 let us. So let us talk about it.
- 15 JUDGE BRENNER: Okay. The other thing is we
- 16 do want to thank the staff for telling us what it told
- 17 us today. We would liked to have heard about it cuite
- 18 sometime ago, but we're glad you came forward now to
- 19 explain it to us. We would have asked questions that I
- 20 think you would want to have the benefit of that review
- 21 before you tried to answer them.
- In addition, the schedule, while setting the
- 23 staff's responsibilities, may now, to our benefit and
- 24 hopefully to the staff's benefit, make your job a little
- 25 harder in the sense that in addition to locking at what

- 1 you would have looked at normally to carry out your own
- 2 responsibilities -- and I'm certainly not implying that
- 3 you would not have fully carried out your
- 4 responsibilities in the absence of a contested issue --
- 5 when you have a contested issue, you have the further
- 6 responsibility of not only coming up with the right
- 7 answer but being able to thoroughly show why the answer
- 8 is right. Those are two different things sometimes; not
- 9 mutually exclusive but not fully the same, either.
- 10 And you now have the advantage of knowing
- 11 where the litigation is and where it might go and being
- 12 able to very materially affect the course of the
- 13 litigation and very materially affect the quality of
- 14 this record; something that we are always interested in.
- 15 So we will appreciate the staff focusing on
- 16 all aspects now.
- 17 MR. DYNNER: Judge Brenner, if I could, first
- 18 of all, indicate on behalf of the county our belief that
- 19 what you stated insofar as the possibility of some kind
- 20 of settlement being worked out, given the staff's status
- 21 right now, is one that the county will intend to pursue.
- 22 Secondly, I have just a question for
- 23 clarification as to whether it will be the staff's
- 24 position that once it has completed whatever review of
- 25 the procedures and manual that it deems necessary,

- 1 assuming that the settlement is unsuccessful -- and I
- 2 hope that's not the case -- will it be the intention of
- 3 the staff to file testimony on its review of the
- 4 procedures and manual, or to make the report available
- 5 for the record to the parties?
- 6 JUDGE BRENNER: Certainly, you will get
- 7 whatever report they issue; that's a given. Let them
- 8 think about what the format might take, and we can all
- 9 discuss it further if such discussion will be fruitful
- 10 on the record, but have discussions off the record
- 11 first.
- I want you to get more than just the report.
- 13 I want you to be apprised, to the extent that it does
- 14 not interfere with the staff's schedule and abilities to
- 15 carry out their work, as to what's happening, and if
- 16 there are any scoping meetings with the utility, to let
- 17 you know about it. And very simply, for the staff to --
- 18 for Mr. Bordenick to be able to pick up the phone and
- 19 let you know from time to time what's happening. And
- 20 all parties have been very good about that on all
- 21 issues. We expect that to continue.
- I must add one thing about this issue. One
- 23 reason that I think that settlement or narrowing is
- 24 possible is that a lot of the questions and answers just
- 25 have not been disagreement on the substance of what

- 1 should be done. The questions would be: shouldn't you
- 2 dc A, B, C and D, and the answers have been yes, we
- 3 should do A, B, C and D, and we do it.
- 4 The question would be: well, according to
- 5 this, you don't have to do it, or you could vary that,
- 6 or, we don't see here where you do it. And the answers
- 7 have been well, if you look somewhere else, it says that
- 8 we do it. Or, we think that means we should do it, we
- 9 have to do it. Or, we do it anyway, and we intend to
- 10 keep doing it.
- 11 So in this one subarea, there didn't appear to
- 12 be a great gulf. Some differences, to be sure, but
- 13 there did not appear to be a great gulf in terms of the
- 14 philosophy of what should be done. And given that, I
- 15 think there is room for settlement or narrowing.
- 16 All right. We have nothing to add and we're
- 17 prepared to pick up the questioning at this point.
- 18 MR. BORDENICK: Thank you, Judge Brenner.
- 19 JUDGE BRENNER: Implicit in our proceeding now
- 20 is I certainly think it would be useful to get the
- 21 redirect on the OCA that has been asked, while it is
- 22 still fresh. And given the fact that it is not likely
- 23 to take a lot of hearing time, it may also help focus
- 24 the parties in their further discussion.
- 25 I guass I should ask LILCO if it agrees or

- 1 disagraes.
- 2 MR. ELLIS: Yes, Judge, in general, I agree.
- 3 It is something I would like to reflect on at the
- 4 break. I think what we elected to do is to permit Mr.
- 5 Dynner to go ahead and ask whatever further questions he
- 6 may have on the staffing point related to the documents
- 7 that we gave him on November 10th, and the document that
- 8 he received yesterday. And maybe I will have a chance
- 9 to reflect on it more at the break.
- 10 But certainly, we're prepared to use all of
- 11 today on redirect and on subjects -- after Mr. Dynner ic
- 12 through -- and on subjects which we think will be useful.
- 13 JUDGE BRENNER: Okay. And then you will have
- 14 the naturally occurring opportunity to think about it.
- 15 So we will prepare now with the county's further cross
- 16 exmination on the staffing matter.
- 17 MR. DYNNER: Judge Brenner, I'm going to have
- 18 distributed a group of documents to be marked for
- 19 identification.
- 20 (Pause.)
- 21 Whireupon,
- 22 EDWARD J. YOUNGLING,
- 23 ARTHUR R. MULLER and
- 24 JOSEPH M. KELLY,
- 25 witnesses previously duly sworn, were examined and

- 1 testified further as follows:
- 2 CROSS EXAMINATION -- Resumed
- 3 BY MR. CYNNER:
- 4 Gentlemen, you should have before you now a
- 5 group of four documents. The first document is entitled
- 6 on the cover page, "Station Operational Quality
- 7 Assurance Section Planning Report, May 1980 to July
- 8 1982." In the lower righthand corner it says "Dennis M.
- 9 Durand, Operating QA Engineer." And in the lower
- 10 lefthand corner are the numbers and letters 1A,
- 11 1-1.920-LIM-RP-001, I think.
- 12 A (WITNESS MULLER) That is correct.
- 13 Q And this document consists of nine pages,
- 14 including the cover page, plus five pages of
- 15 appendices. Is that correct?
- 16 A (WITNESS MULLER) That is correct.
- 17 G Thank you. The second document consists of
- 18 two pages. It is dated in the upper lefthand corner,
- 19 January 27, 1981, and states, "TO: All SNPS
- 20 Supervisors" and under that, "RE: Overtime Control
- 21 Guidelines." And on the second page it is signed by J.
- 22 Rivello, Plant Manager, Shoreham Nuclear Power Station.
- 23 Is that correct?
- 24 A (WITNESS MULLER) That is correct, and it's
- 25 also dated January 27, 1981.

- 1 Q Thank you. The third document is a list that
- 2 appears under three columns at the top, and the first
- 3 column states, "Activities Description;" the second
- 4 column, "September 81 to September 82;" the third
- 5 column, "September 82 to March 83;" and the fourth
- 6 column, "March 83 to March 84." Is that correct?
- 7 A (WITNESS MULLER) That is correct.
- 8 And under the Activities description, there is
- 9 a list of some 35 numbered items; correct?
- 10 A (WITNESS MULLER) Approximately 35, Mr.
- 11 Dynner. I am missing the numbers on mine. That is
- 12 correct, Mr. Dynner. I looked at another copy.
- 13 Q The final document is a typewritten document
- 14 entitled, "DQA Manpower Projection, First Year of
- 15 Operation." It consists of two pages. At the bottom of
- 16 the first page in the lower righthand corner it is
- 17 identified as "Attachment 2" in parentheses. Is that
- 18 correct?
- 19 A (WITNESS MULLER) That is correct.
- 20 MR. DYNNER: Judge Brenner, can we have these
- 21 marked for identification? I believe it's 83.
- 22 JUDGE BRENNER: So, the Station Operational
- 23 Quality Assurance Section Planning Report will be
- 24 Suffolk County Exhibit 83 for identification.
- 25 (The document referred to

1	was marked Suffolk County
2	Exhibit No. 83 for
3	identification.)
4	JUDGE BRENNER: The January 27, 1981 memo from
5	Mr. Rivello entitled, "Overtime Control Guidelines" will
6	be 84.
7	(The document referred to
8	was marked Suffolk County
9	Exhibit No. 84 for
10	identification.)
11	JUDGE BRENNER: The handwritten activities
12	description list of 35 activities will be 85.
13	(The document referred to
14	was marked Suffolk
15	Exhibit No. 85 for
16	identification.)
17	JUDGE BRENNER: And the two-page typed listing
18	entitled, "OGA Manhour Projection First Year of
19	Operation" will be 86, all for identification.
20	(The document referred to
21	was marked Suffolk County
22	Exhibit No. 86 for
23	identification.)
24	JUDGE BRENNER: Let's bind these exhibits for
25	identification numbered 83 through 86, Suffolk County

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1 exhibits, into the transcript for convenience at this
    point.
               (Suffolk County Exhibits 83 through 86 follow:)
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STATION OPERATIONAL QUALITY ASSURANCE SECTION

PLANNING REPORT

May 1980 to July 1982

#### 1.0 ORGANIZATION

Presently the OQA Section is divided by discipline into two distinct subsections: Quality Assurance and Quality Control. The present organizational structure is depicted in Appendix A of this report. The section is comprised of a LTLCO Operating QA Engineer and a LTLCO Quality Control Engineer. The remaining personnel are on temporary assignment from S&W Mield Quality Control to support the Startup Test Program. In addition, (1) QA Engineer position and (2) QC Inspection positions have been approved for the operational phase. However, the QC Inspection positions are not expected to be filled until fuel load and the QA Engineer position has been vacant for the last year. The presently approved operating complement totals five persons.

In September, 1978 I prepared a report entitled "The Station OQA Manpower Study". This was written prior to the Technical Staff Analysis Report on Quality Assurance. At that time, I recommended an organization consisting of (3) Engineers and (4) Inspection personnel. This report included a training schedule and a time frame for acquiring LILCO inspection personnel. This schedule would have afforded a timely transfer of responsibility and experience from the S&W personnel currently assigned to this section to the new LILCO inspection personnel. As a regult of those recommendations, two OA/QC Inspector vacancies were created. Filling these positions, however, has been deferred until fue) load.

### 2.0 SCOPE

For the purpose of this report, the scope of the QA Section's activities will encompass the following basic functions as they apply to safety-related structures, systems, components and activities.

- 1. Audit
- 2. Surveillance
- 3. Inspection
- 4. Roview
- 5. Administration

### 3.0 AUDIT PROGRAM

Station OQA implements the operational sudit system to provide independent verification of compliance with the requirements stipulated within the LILCO FSAR, and

# 3.0 AUDIT PROGRAM (continued)

Manual and the Nuclear Operation Corporate Policy Manual. Manual and the Nuclear Operation Corporate Policy Manual. Audits are conducted in accordance with established QA procedures and will provide plant management and off-procedures and will provide plant management and off-site management with an objective evaluation of the site management with an objective evaluation of the status and adequacy of the QA Program implementation.

The audit system will be comprised of six basic functions; namely, scheduling; planning and preparation of checklists; conducting the audit, including pre-audit and post-audit conferences; writing the audit report; establishing and conferences; writing the audit report; establishing and controlling the required followup activities and examining and evaluating quality trends.

In addition, each preoperational test package completed by Startup will receive an OQA audit prior to approval by the Joint Test Group. Man-hours projected to accomplish this task are contained in Appendix C.

# 4.0 SURVEILLANCE AND INSPECTION

For the purpose of this report, surveillance and inspection shall be defined in accordance with the LILCO QA Program.

Inspection - a phase of quality control which by means of examination, observation, or measurement determines the conformance of items, processes, or structures to predetermined quality requirements.

Surveillance - the physical presence to monitor by observation, the designated activities to assure that they are performed in a specified manner.

Surveillance and inspections are combined in this section of the report because both of these functions are primarily bardware oriented. Both functions are therefore considered field sctivities for the purpose of staffing considerations.

Surveillance activities are conducted in accordance with the OQA Surveillance Tracking Program requirements. The OQA Section propages plans and checklists detailing the attributes to be observed. Upon completion of the surattributes to be observed, a quality assurance report will be

### 4.0 SURVEILLANCE AND INSPECTION (continued)

issued indicating the results. Nonconformances and/or deviations will be appropriately identified, documented and followed up until the appropriate corrective action has been effected.

Surveillance activities will be conducted for all systems that are to be preoperationally tested within the next twenty-seven menths. Presently there are sixty-two systems and approximately 1700 OQA witness points that will be completed by fuel load.

Inspection activities are normally designated by the inclusion of an CQA Inspection Point or sign-off prior to the close out of the work package. Presently, the Repair/Rework Program administered by Startup requires quality control inspection and sign-off to provide objective evidence that the quality aspects of the work performed comply with the LILCO Quality Assurance Program requirements. This effort to date, has been performed by the SaW Field Quality Control (FQC) organization. However, as PQC completes their final inspections, this responsibility will ultimately rest with the OQA section. The OQA section has been directed via the Site Engineering Office to perform additional inspections to satisfy the ASME quality control requirements of Courter Co., prior to signing the N-5 data reports.

In addition, the OQA section is responsible for performing receiving inspection of safety-related parts and components in accordance with documented checklists. A program to place acceptance tags on all safety-related items upon receipt and to backfit all past inspections is anticipated to commence in July, 1980.

### 5.0 REVIEWS

OQA Section will perform the reviews associated with the following:

- a) Review of procedures 
  perform reviews of all safety-related test,
  calibration, special process, maintenance,
  modification, startup, administrative, and
  repair procedures and changes to same.
- b) Procurement document review perform reviews of procurement documents with respect to quality re direments. These documents consist of NSSS guotations, safety-

### 5.0 REVIEWS (continued)

related balance of plant quotations, and associated documents such as supplier QA programs, specifications and applicable procedures. In addition, the associated purchase requisitions and purchase orders must be reviewed to assure all appropriate items have been identified, referenced, and translated to the final purchase documents.

c) Review of vendor documentation for original plant equipment. OQA Section samples the Shoreham Record Retrieval System (SR2) to assure that the required documentation delineated within the purchase specification is turned over to the SR2 by various construction organizations.

### 6.0 ADMINISTRATION

The OQA Section administrative functions include:

a) Nonconformance Control Program

b) Corrective Action Program

c) Training

d) Control and issuance of OQA Documents

- e) Inputting OQA section records to the SRZ f) Freparation of additional OQA Procedures
- g) Revision and periodic review of existing OQA Procedures
- h) Maintenance of the following computerized tracking systems to support the OQA Section programs:
  - 1. Audit Tracking System
  - LILCO Deficiency Report Tracking System
  - J. Dogument Tracking System
  - 4. Surveillance Tracking Systom
- i) Preparation of Monthly Report and Annual Report
- Preparation of Quality Trend analysis Reports

## 7.0 PROJECTED OQA ACTIVITY 5/1/80 - 6/30/82

A. Quality Assurance Subsection

The QA subsection will consist of (3) full-time QA persons, (1) records clerk and (1) part-time person

## 7.0 PROJECTED OQA ACTIVITY 5/1/80 - 6/30/82 (continued)

devoting 50% of his time to OA activities and the remaining to support the QC subsection.

The QA activities include the following:

1. audit program

2. review of vendor documentation

 review of procurement documents to support the spare parts programs

 QA indoctrination and training to support the General Employee Training Programs

5. Administrative functions previously noted

6. QA procedure development

Arrangements have been made with SAW to obtain an additional person to support the QA effort. This person is tentatively scheduled to report in June, 1980.

### B. Quality Control Subsection

The QC subsection will consist of (1) QC engineer and six (6) full-time inspection personnel. In addition, one person will supplement the QA and QC groups. The QC activities include:

- 1. Surveillance of Startup Check Out and Initial Operation (C&IO) Testing and Preoperational Testing
- 2. Review of procedures and changes
- 3. Receipt inspection program
- 4. Development of procedures
- Performing inspection of repair/reworks and satisfying hold-point requirements during flushing, pre-op testing and maintenance
- 6. Review of release packages prior to turnover of systems from construction to startup
- 7. Nonconformance followup activities
- S. Training
- 9. Other (Administrative reports, planning)

# 7.0 PROJECTED OOA ACTIVITY 5/1/80 - 6/30/82 (continued)

The projected man-hours for these activities are contained in Appendix C.

### 8.0 EFCOMMENDATIONS

Recently the President's Commission on the accident at Three Mile Island (TMI) published the "Technical Staff Analysis Report on Quality Assurance". The report concluded that there were insufficient engineering and inspection personnel assigned to the Quality Assurance organization to meet the intent of 10CFR 50, Appendix B or ANSI 18.7. TMI is a twin unit station and at the time of the accident had (13) inspectors performing the various quality functions. This report also suggested that lack of independent observation of surveillance activities contributed to the breakdown of the quality assurance program at that facility.

In view of the present QA program requirements and the impetus given to quality assurance as a discipline in the aforementioned report, I highly recommend that the Station OQA Section complement be increased from its present number of (5) to (8). The (3) additional persons would be assigned to support the respective quality assurance and quality control activities. In addition, the services of a full-time typist will be needed to accommodate the reporting requirements of this section and to maintain the active OQA section file system. The proposed functional OQA organization is depicted in Appendix D.

A position analysis and the minimum qualifications for the OA/QC Inspectors has been previously submitted for your review. This position description has the necessary flexibility and versatility to accommodate the following type personnel:

1) QA/QC Inspector-Procurement/Receipt Inspection

2) QA/QC Inspector-Mcchanical Equipment 3) QA/QC Inspector-Electrical/I & C

4) QA/QC Inspector-Operations/Modifications

5) QA/QC inspector-Welding/NDE

### 9.0 TRAINING

THE SERVICE STREET, ST

Quality assurance and quality control activities will encompass work being performed by all sections within the station. Therefore, QN/QC Staff personnel will require basic technical knowledge associated with each section in addition to more detailed knowledge and understanding of

To Art M.

QA/QC. To reduce the individual training requirements in terms of time and dollars, the type of personnel specified in Section 8 of this report provide an optimum mix.

1 pege

Generally, the QA/QC Staff will be required to meet the general training requirements for personnel not requiring NRC licenses as stipulated in ANSI N18.1, "Selection and Training of Nuclear Power Plant Personnel". This standard was endorsed by the NRC in Regulatory Guide 1.8. In addition, all plant QA/QC personnel will be qualified as Level II inspectors as stipulated in ANSI N45.6, "Qualifications of Inspection, Examination and Testing Personnel for the Construction Phase of Nuclear Power Plants" which the NRC endorsed for the operational phase in Regulatory Guide 1.58. As Level II inspectors, the Station QA/QC Inspection personnel will be able to implement surveillance and test procedures, evaluate inspection and test results and prepare necessary reports.

In order to satisfy the applicable regulatory requirements, indoctrination and training of the QA/QC inspectors will consist of enrollment in formal training programs administered by organizations both internal and external to LILCO, and on-the-job training.

Approximately 5-7 weeks of formal external QA training is recommended. An outline of recommended minimum training courses associated with each QA/QC inspector is contained in Appendix E of this report. It is expected that this training will be completed approximately one year after QA/QC inspector has been assigned.

In addition to the aforementioned training, I recommend that at least one individual from this section receive the necessary training to obtain the SRO License. The decision not to have an SRO in the CQA section ought to be re-evaluated in light of the various activities associated with the conduct of operations and technical specifications that will be accomplished by OQA.

### 10.0 IMPLEMENTATION

The transition phase QA program, the subject of an earlier report, has been fully implemented. Each of the basic functions associated with this program has both a startup and operations application. Due to this inherent duality in QA programs, the transition phase presents a logical, if not ideal time frame to implement the OQA Staff requirements. This would provide the following advantages:

#### 10.0 IMPLEMENTATION (continued)

- Provide Shoreham with an experienced OQA section prior to fuel load. This will undoubtably be a prerequisite for an operating license.
- Additional manpower requirements during the transition phase to support Startup activities are scheduled to be supplied by Stone & Webster. By implementing the QA/QC staff requirements in a timely fashion, LILCO would experience a net savings of 1000-1100 dollars per man month.
- Necessary training requirements addressed in Section 9 could be accomplished in a timely manner prior to fuel load.

Therefore it is recommended that the COA section manning requirement be implemented as expeditiously as possible. Appendix P of this report indicates the recommended time frame for assignment of OQA section personnel.

Appendix A

OPERATING QUALITY ASSURANCE ENGINEER

(12) D. M. DURAND

QA ENGINEER QC ENGINEER A.R. MULLER (4) PROCUPEMENT & OC INSPECTORS QC INSPECTORS RECORDS CONTROL (ELECTRICAL) (MECHANICAL) (3) (4) J.S. GERSON W.J. LAMB K.J. GRACIA N.E. GOLDSTEIN J.H. BRADY T.L. ANSINK D.A. CURRAN D.O. GIBSON L.A. HENRY

QA/QC LESPECTOR	Ensie Introduction	Russe Q: Codes	ON Auchting	For Non-Carrie	Practical Applica	Survettien On	Procurea ne	WA FEET TOOL	CI FETABURICA	Mag. Particule 5 Py	Rodiogrephy	Selective Frainting
1	×	X	x		X		Х					X
2	х	х		X			X	X	х	X		х
3	x	×	х	x		х						х
	x	×		х				X.	х.		х	х
5											1	х

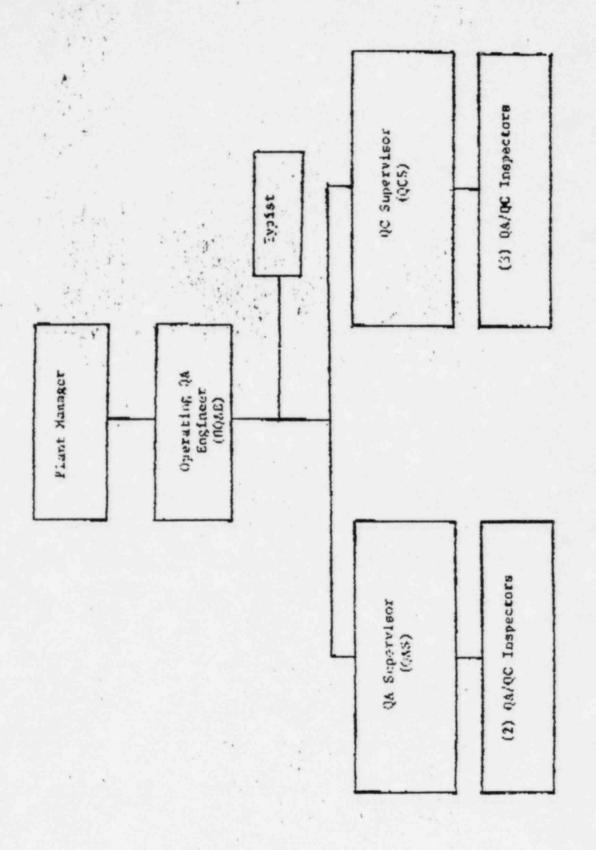
QA/QC Inspector	.IAbr
1	Procurement Receipt Inspection
2	Mechanical Equipment
3	Electrical/16C
4	Operations/Modifications
5	Welding/NDR

	PRO	PROJECTED CA ACTIVITY WORKSINET \$/1/80 - 6/3:/82	ITY KORKSINET		
			ESTLYACTED NAMIOURS		
ACTIVITY	AVENUES MANUCURS Per Monta*	1930 5/i - 12/31	1841 1/31 – 1/3	1962 :/1 - 6/31	TOTAL
Ducum, Keview a) Vendor b) Procurement	96 96	72n 369	1080	540	2340
Procedure Development	30	097	260	120	520
3. Autit/Surv.	150	1200	0061	606	3930
Training	07	80	120	0,9	760
Admin. Punctions	20	091	240	120	520
TOTAL	335	2680	37.07	2010	8710

			PROJECTED OC AC 5/1/80 -	TIVITY WORKSHEE 6/31/82	1		
		AVERAGE	ESTIMATED INSUBCIION HOURS				
	CTIVITY	Hours/Month	1980 5/3 - 12/33	1981 1/1 - 12/31	1982 1/1 ~ 6/31	TOTAL	
2.	0 4 10	315.0	2520	3790	1890	8190	
2.	Pre-Op	315.0	2520	3780	1990	3190	
	Procedure Review	52.5	۵20 .	630	315	1365	
	Repair/ Rework lospection	. 105.0	840	252	630	2730	
	Review Pkg.	52.5	420	630	315	1365	
6. t	raining :	21.0	166	252	126	546	
	Con-Conform.	57.5	420	630	315	1365	
	roceaure evelopment	52.5	420	630	315	1365	
	cceipt	90.0	720	9060	540	2340	
Re	ther (Admin. coorts, lanning, etc.)	84.0	672	1008	504	2184	
TO	DYAL	1140	9120	13680	6840	29640	

<sup>\*6</sup> inspectors available full time for inspection 1 QC Engineer

<sup>\*\*</sup>Including backfitting existing safety related stock with tage



Jenuary 27, 1981 Persons

TO: All SNPS Supervisors

RE: Overtime Control Guidelines

The Scheduling of Overtime guidelines set forth in the Personnel Policy and Procedure Guide III-15 point out the following:

Management survey, indicate that continuous periods of overtime generally result is loss of productivity either through fatigue, illness, errors or other human factors. Furthermore, experience indicates that excessive overtime often leads to personal problems on the part of employees in fulfilling their commitments to families and friends, which may adversely affect productivity."

In keeping with this and Mr. W. Uhl's memo of March 7, 1980, the following guidelines become effective January 1, 1981 in order to control and prevent excessive individual overtime.

All calculations are based upon work hours, and not pay hours. Supervisory personnel will be given pertinent information from the Corporation's "Excessive Individual Overtime Report\*\*\*Quarterly Cumulative Report" as it becomes available to the plant. Only individuals whose overtime hours exceed 15% of their regular hours will be listed. This report should be helpful in flagging excessive individual overtime.

The following guidelines are established:

- 1. No individual quarterly accumulative work hours is to exceed 30% of his regular hours without the approval of Plant Management.
- No individual quarterly accumulative work hours is to exceed 33% of his regular hours without the approval of a Management Committee member (Vice President).
- for a given calendar year without his approval.

An an example, using guideline #1, an employee who normally works fifty (50) weeks per year should not exceed 600 overtime work hours in that calendar year.

Hote: For the year 1981, the overtime work hour guidelines, by classification,

a. Physical workers: Not to exceed 20% sanually b. Clerical workers: Not to exceed 10% sanually c. Supervisors: Not to exceed 20% sanually

J. Rivello
Plant Hanager
Shoreham Muclear Power Station

LJC/Fed

SR2-NF

\* Classifications are defined as follows;

Physical workers: All IBEW 1049 SNPS members Clerical workers: All IBEW 1381 SNPS members

Supervisory: All Supervisory personnel in an overtime pay status

	SC	CX. X3	
	SEPT. 81 TO	SEPT. 82 To	MARCH 85
ACTIVITES DESCRIPTION	SEPT. 82	MARCH 13	MARCH 84
	MHS	MHS	MHS
SCHEDULED OQA AUDITS	2456	881	3000
UNSCHEDULED O AA AUDITS	3200	0	5600
TECH SPEC AUDITS	3 4 4	114	0
ARC AUDIT RESPONSE	40	13	400
LILLO FOR AUDIT RESPONSE	60	20	60
Raview of System T.O. PACKAGES (LSU)	1600	533	.0
SCHEDULED SURVEILLANCES	1000	533	3000
CASCHEDULED + SURVELLANCE .	3 000	1000	5000
WITNESSING FLUSHES	2000	666	500
WITNESSING PERFORMACE TESTING	4000	/333	0
REPAIR REWORK INSPECTIONS TO 1-81	500	166	0
REPAIR REWORK INSPECTIONS TO 4-82	3700	/233	0
MAIN WORK REQUEST (MWR) INSPECTIONS	400	1800	10000
PROCEDURE REVIEW	2800	953	2800
PREPARE & REVISE O QA PROCEDURES	500	166	600
NON CONFORMACE CONTROL (CAR/LOR)	300	100	500
VENDOR DOCUMENTATION REVIEWS	2600	866	400
LESVIEW OF SPARE PARTS	800	266	1800
RECEIPT INSPECTION	600	200	1800
NRC COORDINATION	120	40	400
OGA TRANING F PRESENTATION	400	/33	400
OQA RECORDS	200	66	400
OGA MANAGEMENT REPORTS	600	200	600
ADMINISTRATION	1280	426	3500
OFFSITE SEMINARS & COMMITTEE WORK	180	60	380
QA POST TURNOVER MODIFICATIONS	500	166	2000
ORA ENGINEER TRAINING	1000	333	400
QC ENGINEER TRAINING	950	316	400
Q Q ENGINEER TRAINING	550	183	400
ASSIGN DOA INSPECTORS - 5			
OGA INSPECTOR TRAINING	1200	400	2800
ASSIGN ORA INSPECTORS - ADDITIONAL			2,00
W & ENGINEER REASSIGNMENT			
NUCLEAR FUEL INSPECTION	200	66	200
OGA TO SUPPORT STATION MODIFICATIONS		900	1000
			1111
	37000	13912	47140
			7140

SC EX 860

# OOA MANHOUR PROJECTION FIRST YEAR OF OPERATION

		1st Year of Operation Manhours
l.	Audit	4,000
2.	Tech Spec Audits	0 -
3.	NRC Audit Response	400
4.	LILCO FQA Audit Response	60
5.	Review of System T.O. Packages (LSU)	0 ·
6.	Surveillance	4,000
7.	Witnessing Flushes	500
8	Witnessing Performance Testing	0
9.	Repair Rework Inspections to 7-81	0 ·
10.	Repair Rework Inspections to 4-82	0
11.	Main Work Request (MWR) Inspections	4,000
12.	Procedure Review	2,000
13.	Prepare and Revise OQA Procedures	600
14.	Nonconformance Control (CAR/LDR)	500
15.	Vendor Documentation Reviews	400
16.	Review of Spare Parts	1,800
17.	Receipt Inspection	1,800
18.	NRC Coordination	400
19.	OQA Training and Presentation	400
20.	OQA Records	400
21.	OQA Management Reports	600
22.	Administration	3,500

23.	Offsite Seminars and Committee Work	380
24.	QA Post-Turnover Modifications	500
25.	OQA Engineer Training	400
26.	QC Engineer Training	400
27.	QA Engineer Training	400
28.	Assign OQA Inspectors-5	
29.	OQA Inspector Training	2,800
30.	Assign OQA Inspectors-additional	
31.	S&W Engineer Reassignment	
32.	Nuclear Fuel Inspection	800

.

- 1 BY MR. DYNNER (Resuming):
- 2 Now, Mr. Muller, you will recall that on
- 3 November 4th during the examination on, among other
- 4 things, the OQA staffing question, you testified that in
- 5 addition to the survey of other nuclear power plants
- 6 which was used by you or by LILCO, I should szy, in
- 7 determining the level of DQA staffing, that there were
- 8 also other documents that LILCO used to determine the
- 9 staffing levels. Is that basically the thrust of your
- 10 testimony, as you recall?
- 11 A (WITNESS MULLER) Yes.
- 12 Q And during the course of my asking you
- 13 questions, I asked you to identify what these
- 14 considerations were and which were in writing, and I
- 15 will ask you now whether you could identify which of
- 16 these four documents that we have just referred to you
- 17 have furnished in response to the Board's order that the
- 18 documents that were used by LILCO and which I questioned
- 19 you about should be furnished to the county.
- 20 A (WITNESS MULLER) Those were Exhibits 83, 84
- 21 and 85. We also listed a section of the FSAR.
- 22 MR. ELLIS: May I have the question and answer
- 23 read back?
- 24 JUDGE BRENNER: I'll tell you what the problem
- 25 was. Don't read it back. I almost jumped in on my

- 1 own. It was compound, and you asked him both what did
- 2 they supply in response to our request, and you also
- 3 included the fact of ones that he relied on for his
- 4 numbers.
- 5 And you know and I know that LILCO, in turning
- 6 over the documents, stated they were giving you
- 7 everything just to be sure but they did not, in their
- 8 view, rely on everything for the reasons they expressed.
- 9 MR. DYNNER: I will rephrase the question. I
- 10 certainly didn't mean to tangle up those two.
- JUDGE BRENNER: You just want to know what he
- 12 turned over. You're not yet probing what he relied on?
- 13 Is that correct?
- 14 MR. DYNNER: My question was which of the
- 15 documents that they furnished us were in response to my
- 16 request for documents that they relied upon in the DQA
- 17 staffing.
- 18 JUDGE BRENNER: That does tangle it up, I'm
- 19 afraid. I don't know what you want to ask. Do you want
- 20 to know what he relied on? Do you just want to
- 21 ascertain what they turned over? You can ask one or the
- 22 other and separate out the problem. Is that your
- 23 problem. Mr. Ellis?
- 24 MR. ELLIS: Yes, sir.
- 25 BY MR. DYNNER (Resuming):

- 1 Q All right. As to the four documents that we
- 2 have just identified, were those documents furnished by
- 3 LILCO to the county?
- 4 A (WITNESS MULLER) 83, 84 and 85, yes.
- 5 Q Is it your testimony that the Suffolk County
- 6 Exhibit 86 entitled, "GQA Manpower Projection, First
- 7 Year of Operation" was not furnished by LILCO to the
- 8 county?
- 9 A (WITNESS MULLER) It was yesterday.
- 10 Q That was my question. I wasn't trying to say
- 11 at what date it was furnished. All four documents were
- 12 furnished by LILCO to the county; is that correct?
- 13 A (WITNESS MULLER) That is correct.
- 14 C Thank you. Which of these four documents, if
- 15 any, constitutes the manpower projections that you
- 16 referred to in your November 4th testimony as having
- 17 been relied upon by LILCO in determining OQA staffing
- 18 levels?
- 19 (Panel of witnesses conferring.)
- 20 You might refer to -- if you have the
- 21 transcript there, page 13,024 and 13,023.
- 22 (Pause.)
- 23 A (WITNESS MULLER) Mr. Dynner, those were items
- 24 33 and 84.
- 25 Q Mr. Muller, my question may have gotten

- 1 refused. My question related to which of these
- 2 documents is the manpower projections. Suffolk County
- 3 84 is entitled, "Overtime Control Guidelines." Did you
- 4 intend to include that as the document constituting the
- 5 manpower projections?
- 6 A (WITNESS MULLER) I did testify that I had used
- 7 83 and 84 as guidelines. 84 does not specifically say
- 8 manpower requirements on it. It does say overtime goals.
- 9 Yes, so Exhibit 83 entitled "Station
- 10 Operational Quality Assurance Section" is the manpower
- 11 projections that you were referring to?
- 12 A (WITNESS MULLER) As far as the eight LILCO
- 13 people, yes. As referenced on 13,024 and 13,025.
- 14 Q Now, Mr. Muller, to assist you, if you will
- 15 look on page 13,027 of the transcript, at the bottom of
- 16 that page I asked the question: Was an analysis made of
- 17 the QA Manual and the DQA procedures in order to
- 18 determine the expected activities for the DQA Section in
- 19 the first year of operation. And at the top of page
- 20 13,028 you answered, Yes, we did estimate the amount of
- 21 time that would be spent on each act ity during the
- 22 first year.
- 23 And there continue some questions and answers
- 24 in which you state on line 10, There was a document
- 25 noting our projected manpower requirements. And you go

- 1 on on line 13, I'm not sure whether every activity was
- 2 listed in detail in that document. We may have
- 3 summarized, et cetera.
- 4 Now, is the document that you were referring
- 5 to on page 13,028 of the transcript within the package
- 6 of four documents that we have identified this morning?
- 7 (Panel of witnesses conferring.)
- 8 A (WITNESS MULLER) Mr. Dynner, what I was
- 9 referring to were Exhibits 83 and 85. Exhibit 85 I had
- 10 not reviewed at the time I had answered that cuestion.
- 11 Q But you have since determined that Exhibit 85,
- 12 which is entitled, "Activities Description" in fact was
- 13 one of the documents relied on by LILCO to assist it in
- 14 determining CQA staffing? Is that correct?
- 15 A (WITNESS MULLER) That document provided a list
- 16 of activities, as did the Station Operational Quality
- 17 Assurance Section. The Station Operational Quality
- 18 Assurance Section Planning Report categorized the
- 19 activities in I think five or six different categories,
- 20 and which was further broken down in Exhibit 85.
- 21 C So it is your testimony that they were both
- 22 used and relied upon in establishing the DQA staff
- 23 levels? Is that correct?
- 24 A (WITNESS MULLER) Exhibit 83 provided summary:
- 25 Exhibit 85 provided more definition as far as the

- 1 activities were concerned.
- 2 MR. ELLIS: May I have the question and answer
- 3 read back, please?
- 4 JUDGE BRENNER: Because you missed it?
- 5 MR. ELLIS: No, sir, because I think the
- 6 witness did not understand it, and I think it's
- 7 important, Judge Brenner. I really do.
- B JUDGE BRENNER: It's going to save us a lot of
- 9 time doing it now rather than later?
- 10 MR. ELLIS: Yes, sir, I certainly think so.
- 11 (The reporter read the record as requested.)
- 12 WITNESS MULLER: Mr. Dynner, Exhibit 85 had
- 13 never been submitted. It was an internal document
- 14 prepared by the QA engineer. I had never reviewed it at
- 15 the time, and I had not reviewed it until last week. So
- 16 it was not used in a sense of providing manpower
- 17 estimates. I knew that something had been made up and
- 18 it listed the activities, or time sheets provide a
- 19 breakdown of different activities, and these are the
- 20 weekly time sheets that we use.
- 21 In the Station OQA Quality Assurance Section
- 22 Planning Report, Exhibit 83 we defined some of the
- 23 activities as audit surveillance, inspection, review and
- 24 administration. We have to break that down into further
- 25 categories in order to define our manpower requirements.

1	JU	DGE CAR	PENTER:	Mr. Dynner,	if I may, was
2	the answer t	o the q	uestion	yes or no?	
3	WI	TNESS M	ULLER:	Judge Carper	ter, we did use
4	83 but 85 wa	s never	used a	s far as the	manpower
5	projections.				
6	Ju	DGE CAR	PENTER:	Thank you.	I wanted to be
7	sure I under	stood y	our ans	wer.	
8	WI	TNESS M	ULLER:	So the answe	r was half yes
9	and half no.				
10	Ju	DGE CAR	PENTER:	Thank you.	
11	JU	DGE BRE	NNER:	Off the recor	d for a minute.
12	CD	iscussi	on off	the record.)	
13	Ju	DGE BRE	NNER:	Back on the r	ecord. We will
14	take a 15-mi	nute br	eak unt	il 10:30.	
15	CA	short	recess	was taken.)	
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

- JUDGE BRENNER: Let's go back on the record.
- 2 We're ready to continue the county's cross examination
- 3 on the staffing matter of LILCO's panel.
- 4 MR. DYNNER: Thank you.
- 5 BY MR. DYNNER (Resuming):
- 6 Gentlemen, in order to go more rapidly, I'm
- 7 going to direct your attention and ask you a series of
- 8 questions about Exhibit 83, which is the Planning Report
- 9 of the Station Operational Quality Assurance Section.
- 10 Mr. Muller, this report is undated. Do you
- 11 know what the date of the report is?
- 12 A (WITNESS MULLER) It was just prior to May
- 13 1980. I think in the testimony I stated that it may
- 14 have been a 1981 report. I was incorrect. It was a
- 15 1980 report prepared just prior to May.
- 16 Q Mr. Muller, were you involved in the
- 17 preparation of this planning report?
- 18 A (WITNESS MULLER) Not that I remember.
- 19 Who was involved in the preparation of this
- 20 planning report?
- 21 A (WITNESS MULLER) The operating DQAE at the
- 22 time.
- 23 Q That was Mr. Durand, whose name is in the
- 24 lower righthand corner? Is that correct?
- 25 A (WITNESS MULLER) That is correct.

- 2 A (WITNESS MULLER) This report was submitted by
- 3 the OCAE to plant management. He submitted and approved
- 4 it.
- 5 Q Did you say the Plant Manager?
- 6 A (WITNESS MULLER) The plant management. I'm
- 7 not sure who specifically. I don't have a cover letter
- 8 for the report; all I have is the report.
- 9 Is there a document that indicates that this
- 10 planning report was, in fact, approved by the plant
- 11 management?
- 12 A (WITNESS MULLER) Not that I'm aware of.
- 13 (Panel of witnesses conferring.)
- 14 A (WITNESS MULLER) Mr. Dynner, it was part of a
- 15 presentation made to upper management. I'm not sure if
- 16 anyone had, in fact, approved the report.
- 17 Would a planning report such as this one need
- 18 to be approved by the plant management to whom it was
- 19 presented in order to be implemented?
- 20 (Panel of witnesses conferring.)
- 21 A (WITNESS MULLER) This report would form the
- 22 basis for the manpower increase. The plant management
- 23 would have to review it.
- 24 G My question is, Mr. Muller, would the planning
- 25 report have to be approved by plant management in order

- 1 to be implemented?
- 2 A (WITNESS MULLER) It would have to be reviewed
- 3 and approved, in a sense, yes.
- 4 Q was this the planning report which formed the
- 5 basis of the commitment of LILCO in the FSAR to a level
- 6 of eight personnel in the GQA Section?
- 7 A (WITNESS MULLER) That is the basis for the
- 8 eight LILCO personnel.
- 9 Q Do you know the process by which the
- 10 recommendations in this planning report became
- 11 effectuated into the FSAR?
- 12 (Panel of witnesses conferring.)
- 13 A (WITNESS MULLER) Mr. Dynner, this report was
- 14 only part of a presentation to management. This was
- 15 only the DQA input to a much larger staffing report that
- 16 had been presented to upper management. I understand it
- 17 went as far as the President of the company.
- 18 Q Do you have any personal knowledge of the
- 19 process by which this planning report was implemented
- 20 into the FSAR commitment for LILCO?
- 21 A (WITNESS MULLER) I am aware that this report
- 22 recommended that we have at least eight LILCO people on
- 23 the OQA staff. That request was approved and it did
- 24 become part of our FSAR commitment.
- 25 Q I'm confused, Mr. Muller, and I want to give

- 1 you the opportunity to clarify this. I had thought a
- 2 few minutes ago that you testified that you didn't know
- 3 whether this report had been approved.
- 4 A (WITNESS MULLER) I don't know that there is a
- 5 written approval on it, but as far as the
- 6 recommendations were taken into account -- and they were
- 7 -- the staffing levels were approved.
- 8 Q How do you know that this planning report was
- 9 approved?
- 10 (Panel of witnesses conferring.)
- 11 A (WITNESS YOUNGLING) Mr. Dynner, this report,
- 12 along with a series of othe reports within the plant
- 13 staff, became the basis for a presentation to our
- 14 management chain, up to the president of the company,
- 15 which resulted in the approval by him of staffing levels
- 16 for the operation of the station.
- 17 Yes, it was approved, it was approved through
- 18 the president of the company. Otherwise, we wouldn't
- 19 get the people.
- 20 Mr. Youngling, I'm going to ask both you and
- 21 Mr. Muller how each of you has personal knowledge that
- 22 this particular planning report was approved by LILCO's
- 23 management.
- 24 (Panel of witnesses conferring.)
- 25 A (WITNESS YOUNGLING) I was in the board of

- 1 directors' room when the president of the company
- 2 approved the report, the presentation.
- 3 Q Thank you. Mr. Muller, you agree, don't you,
- 4 that this document entitled "Planning Report" in reality
- 5 does not consist of a projection of the number of people
- 6 that are required in the OQA Section? Isn't that true?
- 7 A (WITNESS MULLER) No, that's not true. The
- 8 eight people that we have or that we recommended was
- 9 part of the staff that we felt we would need into
- 10 Operations. As I testified earlier, LILCO does not have
- 11 a policy that we hire indiscriminately. At least, LILCO
- 12 people. We can only hire the number of LILCO people
- 13 that we feel we are going to safely need over the next
- 14 many years. If we need more people on a temporary
- 15 basis, we will hire them through contracts.
- 16 So this was our first indication that we would
- 17 have at least eight people on the LILCO DQA staff during
- 18 operations.
- 19 Q Let me give you an example of what I'm talking
- 20 about, Mr. Muller. If you turn to what appears to be
- 21 page 5 of the planning report, I don't have a page
- 22 number on mine but at the top of the page it says,
- 23 "Projected SQA activity, 5/1/80 to 6/30/82." Do you see
- 24 that page?
- 25 A (WITNESS MULLER) Yes, sir, it starts with

- 1 paragraph 7.
- 2 Yes. And if you look down to the paragraph
- 3 beginning with B, Quality Control Subsection, it states,
- 4 "The QC subsection will consist of one QC engineer and
- 5 six full-time inspection personnel; in addition, one
- 6 person will supplement the QA and QC groups."
- 7 Now, that is a statement of how many people
- 8 will be in the QC subsection, and there's no projection
- 9 which would back up the need for more or fewer of that
- 10 number, is there?
- 11 A (WITNESS MULLER) Do you mean we have actual
- 12 numbers in there that project? No. we do not.
- 13 Q So that what you have in here is an assumption
- 14 that starts out with the number of personnel that are in
- 15 the section, and then you have a series of appendices
- 16 that show how the man hours of those particular
- 17 personnel will be allocated among various general
- 18 tasks. Isn't that correct?
- 19 (Panel of witnesses conferring.)
- 20 A (WITNESS MULLER) Maybe I misunderstood your
- 21 first question, but as far as answering this question,
- 22 yes, we do say that the subsection will consist of one
- 23 QC engineer and six full-time inspection personnel, and
- 24 the timeframe is noted on Appendix C.
- 25 Q All right. Let's look at Appendix C for a

- 1 moment, Mr. Muller. Appendix C is entitled, "Projected
- 2 QC Activity Work Sheet, 5/1/80 to 6/31/82." The first
- 3 column lists activities, the second column says,
- 4 "average inspector\* " and under that, "hours/month."
- 5 And if you look at the asterisk, it says, "six
- 6 inspectors available full-time for inspection, one QC
- 7 engineer."
- 8 So, this appendix is simply an allocation of
- 9 the time, given the fact that there will be six
- 10 inspectors and one QC engineer, isn't it?
- 11 (Pause.)
- 12 A (WITNESS MULLER) That's what that indicates
- 13 for the timeframe noted.
- 14 Q So your testimony is it's just an allocation,
- 15 isn't it, based whom a given, fixed number of people.
- 16 Is that correct?
- 17 A (WITNESS MULLER) No. It's a projection. The
- 18 report was made before May of 1980, and it extends to
- 19 1982. It's not an allocation; it's just a projection.
- 20 Q And that projection, given the initial
- 21 allocation of numbers of hours per activity, is in each
- 22 cclumn for 1980, 1981 and 1982, based upon the
- 23 availability of six inspectors and one QC engineer,
- 24 isn't that correct?
- 25 A (WITNESS MULLER) No, sir.

1		9	A11	right	. Where	does it s	ay on this chart
2	that	there	are	goin	g to be	more than	that number?
3		A	CWIT	NESS	MULL ER)	Once again	, Mr. Dynner, this
4	is ju	st an	est	imate	. In 19	82, we hav	e more than six
5	inspe	ctors	. 8	ecaus	e we fou	nd needed	more, we obtained
6	more.						
7		Q	Well	, I u	nderstan	d that tha	t may be the case,
8	but I	'm ta	lkin	g abo	ut this	particular	appendix.
9			(Pan	el of	witness	es conferr	ing.)
10		A	(WIT	NESS	MULLER)	Mr. Dynner	, this is based on
11	proje	ction	s, n	ot on	the ava	ilability	of six people.
12		Q	Now,	Mr.	Muller,	let's take	a look at what
13	this	proje	cted	QC a	ctivity	work sheet	really is and
14	reall	y doe	s .	In th	e first	line, the	activity says,
15	"C&IO	, " an	d in	the	second c	olumn it s	ays, "Average
16	inspe	ctor"	wit	h an	asterisk	stating,	"six inspectors
17							ne QC engineer."
18							is document that
19							that number, is
20	there						
21		•					
22							
23							
24							
25							

- 1 [Panel of witnesses conferring.]
- 2 A (WITNESS MULLER) Mr. Dynner, I would have to
- 3 go through the whole report to find out if those exact
- 4 words are in there. But that is not what the report --
- 5 the report was the best estimate at the time. And as we
- 6 found out, we needed more than six QC inspectors. We
- 7 obtained more than six QC inspectors. I think it shows
- 8 that we are not tied down to just six inspectors.
- 9 Q Yes, Mr. Muller, but what I am trying to
- 10 establish now is your reliance on this planning report
- 11 and, in turn, a part of the planning report, what
- 12 appears to be a critical part of the planning report,
- 13 Appendix C, and I am asking you to verify for me that,
- 14 as I read Appendix C, there is nothing on Appendix C
- 15 which indicates that there will ever be more than six
- 16 inspectors and one QC engineer. Isn't that correct?
- 17 A (WITNESS MULLER) There are no words on that
- 18 page that say we will increase the staff as necessary.
- 19 However, we have done that.
- 20 Q And if you look at the column under "Average
- 21 Inspector" with the asterisk, hours/month, at the bottom
- 22 there is a total number of hours, and that is 1140,
- 23 isn't it?
- 24 A (WITNESS MULLER) That is the number that
- 25 appears. I haven't checked the numbers on the report,

- i though.
- 2 All right. Well, let's just talk about this
- 3 Appendix C for a moment. Now, the 1140 hours is the
- 4 number of hours a month that seven personnel would work,
- 5 isn't it?
- 6 A (WITNESS KELLY) It's more like 6.47 persons.
- 7 Q 6.4? Thank you, Mr. Kelly.
- 8 A (WITNESS KELLY) 6.47.
- 9 G 6.47. Thank you.
- 10 Now, if we look at the first line again, we
- 11 see that devoted to the activity of C&IO you have under
- 12 average inspector hours per month 315; isn't that
- 13 correct?
- 14 A (WITNESS MULLER) That is the number that
- 15 appears, yes.
- 16 Q That is the number of hours. Now look at the
- 17 next column, which says 1980 -- looks like May, 5/1, to
- 18 12/31; isn't that correct?
- 19 A (WITNESS MULLER) In 1980, yes.
- 20 Q And that is eight months, isn't it?
- 21 A (WITNESS MULLER) Yes.
- 22 Now, if you were to multiply eight months
- 23 times the 315 hours number in the column under "Average
- 24 Inspector," you would get 2520, which is the number in
- 25 that column under 1980, isn't it?

- 1 A (WITNESS MULLER) That's correct. And it also
- 2 says under those four columns -- the columns are headed
- 3 by the term "Estimated Inspecting Hours."
- 4 Q I understand these are projections according
- 5 to you and that they are estimates. My question now is,
- 6 if you look in the column under 1981, that says 1/1. I
- 7 assume that is January 1, to 12/31, which I assume is
- 8 December 31, and that is twelve months, isn't it?
- 9 A (WITNESS MULLER) That is correct.
- 10 And if you multiply 12 times 315, you would
- 11 get the number which appears to be 3780 in that column,
- 12 wouldn't you?
- 13 A (WITNESS MULLER) That is correct.
- 14 Q And the same is true under the column 1982,
- 15 which is for January 1 through June 31 and therefore
- 16 covers six months, and if you multiplied 6 times 315,
- 17 you would get 1890, wouldn't you?
- 18 A (WITNESS MULLER) Yes, you would.
- 19 Q So this is an estimate based upon a constant
- 20 workload over the period of time of these 1980, 1981 and
- 21 1982 periods, isn't it?
- 22 A (WITNESS MULLER) That is correct, because we
- 23 expected the activities to continue at a constant rate
- 24 during that time frame.
- 25 And all the activities are at a constant rate

- 1 and there aren't any more people than the assumed six
- 2 inspectors and one QC engineer; isn't that correct?
- 3 A (WITNESS MULLER) Once again, these are
- 4 average figures. They may not all come out on an annual
- 5 basis or over the three-year basis. It's just an
- 6 average.
- 7 Q All right. So it is an allocation, isn't it?
- 8 It is an allocation of these activities listed in the
- 9 first column projected into future years on a constant
- 10 basis, and assuming that there are going to be six
- inspectors and one QC engineer; isn't that correct?
- 12 A (WITNESS MULLER) It is not an allocation.
- 13 Q All right. If I leave out the word
- 14 "allocation," is it correct that all this appendix does
- 15 is assume that if you had six inspectors and one CC
- 16 engineer, and if you divided up the activities as they
- 17 appear on this list, and if you had a constant workload
- 18 factor, that the number of hours for each one of those
- 19 activities would be as shown on this appendix? Is that
- 20 correct?
- 21 [Panel of witnesses conferring.]
- 22 A (WITNESS MULLER) Mr. Dynner, this does
- 23 provide a list of estimated manhours based upon the
- 24 first column, average inspector manhours per month.
- 25 And based upon a constant of six inspectors

- 1 and one QC engineer; isn't that correct?
- 2 A (WITNESS MULLER) During this time frame, yes.
- 3 Q Thank you.
- 4 A (WITNESS MULLER) Let me say once again, we
- 5 found that this estimate was not correct. The activity
- 6 levels did change and we did have to supplement our
- 7 staff.
- 8 Q Yes, I understand that, Mr. Muller. Now, I
- 9 would like to ask you to turn back to the page -- again,
- 10 mine is unnumbered, and yours may be too, Mr. Muller,
- 11 but at the top of the page I am referring to, it says
- 12 7.0, Projected DQA Activity, 5/8/80 to 6/30/82. It
- 13 seems to be page 6 not counting the cover page. Do you
- 14 have that page, Mr. Muller? It says projected 0Q
- 15 activity under 7, and then the next paragraph down says
- 16 3.0, Recommendations.
- 17 A (WITNESS MULLER) Yes, sir, I have that page.
- 18 Q Thank you.
- 19 Now Mr. Muller, you will notice in there there
- 20 is reference made to the President's Commission on the
- 21 Accident at Three Mile Island, and the following
- 22 statement is quoted or appears. I am going to quote the
- 23 statement from this planning report. It says, "The
- 24 report" -- that is the Three Mile Island report --
- 25 "concluded that there were insufficient engineering and

- 1 inspection personnel assigned to the quality assurance
- 2 organization to meet the intent of 10 CFR 50, Appendix
- 3 B, or ANSI 18.7."
- 4 I add parenthetically that they are talking
- 5 about Three Mile Island; isn't that correct?
- 6 A (WITNESS MULLER) That is correct.
- 7 O The next sentence says, "TMI" -- that is Three
- 8 Mile Island -- "is a twin unit station, and at the time
- 9 of the accident had 13 inspectors performing the various
- 10 quality functions. This report also suggested that lack
- 11 of independent observation of surveillance activities
- 12 contributed to the breakdown of the quality assurance
- 13 program at that facility."
- 14 Now Mr. Muller, if there were 13 inspectors at
- 15 a twin unit station like TMI, and therefore you divided
- 16 13 inspectors by 2 and applied it to a single unit
- 17 station, you would come out exactly or almost exactly to
- 18 the number of inspectors that Mr. Kelly just gave us of
- 19 6.5, wouldn't you?
- 20 A (WITNESS MULLER) If you divided 13 by 2, yes,
- 21 you would.
- 22 Q And in fact, as Mr. Kelly has helped us out
- 23 with, there were on your projections on Appendix C 6.5
- 24 inspectors doing those tests, weren't there? The six
- 25 inspectors and the one QC engineer, which Mr. Kelly told

- 1 us when you looked at the average inspectors hours/month
- 2 total of 1140 hours came out to something like, he said,
- 3 6.5 people. Isn't that correct?
- 4 A (WITNESS MULLER) Mr. Dynner, we are confused
- 5 about the question.
- 6 Well, I will try to simplify it. I am sorry.
- 7 If you took the 13 inspectors for a twin unit at TMI and
- 8 you divided it in half, you would come out to 6.5
- 9 inspectors, which is the same number of inspectors that
- 10 LILCO used in this planning report, Appendix C, isn't
- 11 that correct?
- 12 A (WITNESS MULLER) That is correct. You would
- 13 come out with six inspectors. However, as I have
- 14 testified previously, LILCO realizes that six inspectors
- 15 are not quite enough. We are going to have a staff of
- 16 14 during the first year of operations, and we will
- 17 assess on a continuing basis the need for the number of
- 18 people in the CQA section.
- 19 A (WITNESS YOUNGLING) I would also like to add
- 20 that in all of our manpower projections for the plant
- 21 staffs, we tend to lean away and shy away from dual unit
- 22 facilities because of the economies of scale and so
- 23 forth. We don't -- as a matter of fact, in the EEI
- 24 report that we discussed at length, we saw there that we
- 25 only looked at single unit utilities.

- So if you are trying to imply that we are just
- 2 taking that number and applying it, cutting it in half,
- 3 I don't think that is a correct characterization at all.
- 4 Q Well, Mr. Youngling, if you were going to do
- 5 this projection, would you say that 6.5 inspectors were
- 6 too many or too few?
- 7 A (WITNESS YOUNGLING) I would say that the
- 8 conclusions of this report are perfectly valid and
- 9 adequate.
- 10 Q Mr. Muller, could you identify for me the
- 11 document which is apparently one of the appendices that
- 12 is attached to the back of the report and forms a part
- 13 of it that is entitled "Projected QA Activity
- 14 Worksheet"? Do you know which appendix this is? The
- 15 appendix letter on my copy does not appear.
- 16 [Pause.]
- 17 MR. DYNNER: I don't want to take up
- 18 everyone's time. If counsel for LILCO can be of
- 19 assistance, please chime in.
- 20 MR. ELLIS: I don't know which one it is; but
- 21 I might point out that I think that the examination is
- 22 not going as expeditiously on the merits of the issue
- 23 which was the point of our pleading.
- 24 JUDGE BRENNER: That is not what he invited
- 25 you to chime in on. We had the bare bones of an outline

- 1 of the cross plan given the time circumstances we
- 2 discussed yesterday. It is still within paragraph 3 of
- 3 that plan. I certainly had hoped that it would proceed
- 4 much quicker than this, but he is within the subject.
- 5 Whether it has to proceed quite this way, I am not ready
- 6 to agree or disagree. We all hoped it would move faster.
- Why do you need the appendix number, in order
- B to tie it to the reference?
- 9 MR. DYNNER: Well, Judge Brenner, there is
- 10 reference in this to Appendices A, B, C, D, E and F.
- 11 That is six. We have only got five. I am trying to
- 12 ascertain on the record which is missing. Is it F that
- 13 is missing or a that is missing? It looks to us as
- 14 though this is B. Maybe we could just have you confirm,
- 15 if you would, whether in fact -- I will ask the question
- 16 differently.
- 17 BY MR. DYNNER: (Resuming)
- 18 Q Is the projected QA activity worksheet
- 19 appendix intended to be Appendix 8 or Appendix F?
- 20 MR. ELLIS: Can you help him out, Mr. Dynner,
- 21 with a reference in the text to the particular appendix?
- 22 BY MR. DYNNER: (Resuming)
- 23 Q I am going to help you out as much as I can,
- 24 and you can confirm or deny whether I am right, but as I
- 25 read the planning report, what Mr. Hubbard and I have

- 1 been able to figure out is that on the page 2 of the
- 2 text, the textual material, at the top of the page it
- 3 says Audit Program. There is a reference there to
- 4 Appendix C in the last line of that paragraph. What we
- 5 have tried to piece together, it locks like Aspendix C
- 6 should be Appendix 8, and the projected QA activity
- 7 worksheet is, in fact, Appendix 8.
- 8 Maybe you could confirm that for me.
- 9 A (WITNESS MULLER) What I will try to do is get
- 10 it back to a paragraph. It applies to Paragraph 7 alpha
- 11 under Quality Assurance subjection. We have a QA
- 12 subsection projected activity worksheet, and we have a
- 13 QA section activity worksheet.
- 14 Q Thank you, Mr. Muller.
- 15 A (WITNESS MULLER) Did that help?
- 16 Yes. I think that will be sufficient for
- 17 identification purposes.
- 18 Now, that being the case, isn't it true that
- 19 this appendix entitled "Projected QA Activity Worksheet"
- 20 relates to the Quality Assurance subsection in the same
- 21 way as Appendix C that we have just been discussing
- 22 relates to the Quality Control subsection?
- 23 A (WITNESS MULLER) It is a similar document,
- 24 yes.
- 25 And it is also true, isn't it, that this

- 1 document contains as a first column, Activity, as a
- 2 second column, Average Manhours Per Month, with an
- 3 asterisk, and that the asterisk at the bottom of the
- 4 page says two persons available with audits and program
- 5 development supplemented by supervisors? That is true,
- 6 isn't it?
- 7 A (WI HESS MULLER) That is what that asterisk
- 8 means, yes.
- 9 So that as in the case of Appendix C, what we
- 10 have here is a document that makes an assumption that
- 11 there will be two persons available plus some
- 12 supplementation by supervisors and does not project an
- 13 increase above those two persons, does it?
- 14 A (WITNESS MULLER) There is no projection on
- 15 that page indicating an increase in personnel. However,
- 16 once again, we have noted for the past two years that we
- 17 have required more people and we have, in fact, gotten
- 18 those people.
- 19 Q So the fact of the matter is, Mr. Muller, that
- 20 if you look carefully at this planning report, it does
- 21 not project anywhere in it the OQA staffing needs of
- 22 LILCO but simply contains an analysis which allocates
- 23 various tasks to a given number of people. Isn't that
- 26 correct?
- 25 A (WITNESS MULLER) No, sir.

- 1 Q All right. I am going to try a different
- 2 tack, Mr. Muller. You show me in this document where it
- 3 projects a greater number of personnel needs in the CQA
- 4 section.
- 5 A (WITNESS MULLER) Section 8 under
- 6 Recommendations, second paragraph.
- 7 Well, Mr. Muller, tell me if I am wrong, but
- 8 the statement that you are referring to is the one that
- 9 recommends that the Station OQA Section complement be
- 10 increased from its present number of five to eight;
- 11 isn't that correct?
- 12 A (WITNESS MULLER) That is correct. And once
- 13 again, that refers to the number of permanent LILCO
- 14 employees within the section.
- 15 Q Yes. And the appendices that we have just
- 16 looked at in fact are based upon the eight, aren't they?
- 17 A (WITNESS MULLER) They are based upon the
- 18 average need for eight.
- 19 I would like to also note at the time this
- 20 report was written, we had 12 people in the section.
- 21 That is noted in Appendix A. I am sorry, Mr. Dynner, 11
- 22 people.
- 23 C Well, Mr. Muller, is it your testimony that
- 24 this suggests that the eleven people have been reduced
- 25 to five and should now be increased to eight?

- 1 A (WITNESS MULLER) No. sir.
- 2 Well, would you explain that for me?
- 3 A (WITNESS MULLER) At the time this report was
- 4 written, it was to justify the number of permanent LILCO
- 5 employees, and at that time we had authorization for
- 6 five permanent LILCO employees in the section. We felt
- 7 the need to increase it to eight, and those tables
- 8 justified the need for eight people during the long-term
- 9 operation of at least two years.
- 10 JUDGE BRENNER: You had eleve people while you
- 11 were trying to justify eight?
- 12 WITNESS MULLER: We were trying to justify
- 13 eight long-term LILCO employees at the time we wrote the
- 14 report. Appendix A indicates the number of people that
- 15 we had at the time. Once again, we were in the startup
- 16 phase or the pre-operational test phase, not in the
- 17 operating phase.
- 18 BY MR. DYNNER: (Resuming)
- 19 So the justification is to go to eight now of
- 20 full-time personnel in the DQA Section, "now" being
- 21 sometime immediately prior to May of 1980; is that right?
- 22 A (WITNESS MULLER) Not immediately prior to,
- 23 but during the next few months it was intended to
- 24 increase our staff to eight prior to fuel load so that
- 25 we would have eight permanent LILCC employees at the

- 1 time of fuel load. And once again, that didn't preclude
- 2 us from having additional contractors assigned to the
- 3 OCA Section.
- 4 G So you had eleven, you wanted to justify --
- 5 the eleven, I take it, were not all permanent LILCO
- 6 employees? Is that the distinction you are making?
- 7 A (WITNESS MULLER) That is correct.
- 8 Q All right. So you had five permanent LILCO
- 9 people and you wanted to jo to eight, and what these
- 10 appendices show is that you were going to stay at eight
- for the period up through 1982; isn't that correct?
- 12 A (WITNESS MULLER) Mr. Dynner, at the time, we
- 13 did not have five LILCO permanent employees; we had
- 14 justification for five. We wanted to increase that
- 15 number to eight. What the report showed is that we
- 16 could justify eight people and we would need at least
- 17 eight people to perform the activities noted.
- 18 JUDGE BRENNER: I don't know if it is
- 19 important, but in giving your answer, maybe you had
- 20 better give us the number. How many of those people
- 21 were permanent LILCO employees?
- 22 WITNESS MULLER: At the time of the report
- 23 there were two. The QA engineer had just left and we
- 24 had posted for inspection personnel. Those positions
- 25 had not been filled at the time of the report, and I can

- 1 tell by the names that these individuals were not a the
- 2 time LILCO employees.
- BY MR. DYNNER: (Resuming)
- 4 Q Mr. Muller, let's move away from the planning
- 5 report for a while and look at, if you will, Exhibit 85,
- 6 which is the listing that we have identified and can
- 7 call here the activities description. You have
- 8 testified, haven't you, that this particular document
- 9 was not, in fact, used in establishing the DQA staffing
- 10 levels of eight; isn't that correct?
- 11 A (WITNESS MULLER) That is correct. This
- 12 document, once again, was prepared by the QA engineer in
- 13 September of 1981 and it remained in his desk until a
- 14 few weeks ago.
- 15 Q Don't you find this document, if you were
- 16 going to be involved with CQA staffing, to be a rather
- 17 useful one in that it makes an attempt at setting forth
- 18 the activities to be performed by the GQA Section and
- 19 then matching them up with the manhours that it is
- 20 estimated each activity would take?
- 21 A (WITNESS MULLER) Mr. Dynner, this document is
- 22 not necessary because what we use is the monthly
- 23 timesheet, which describes similar activities, and we
- 24 keep track each month of the number of manhours spent on
- 25 each activity. From those reports we develop our

- 1 projections. But if there is no need to submit a report
- 2 to increase our personnel, we would not submit a report.
- 3 Well, the time records that you are referring
- 4 to are retrospective, a retrospective look at your oga
- 5 Section, aren't hey? Do you understand what I mean?
- 6 You are looking backwards, in other words; you are not
- 7 looking ahead when you examine the past timecards.
- 8 A (WITNESS MULLER) That is correct, but that
- gives us a good idea of how much time we spend on each
- 10 activity. It provides a good data base. But once again,
- 11 that data base is not complete because certain
- 12 activities are not being performed at the present and
- 13 certain activities are being performed and completed in
- 14 the past.
- 15 Q To make a meaningful projection, Mr. Muller,
- 16 you certainly would want to have the past timecards to
- 17 see what number of hours were spent on each activity,
- 18 but wouldn't you also want to have a fairly detailed
- 19 list of what the activities were likely to be in the
- 20 future?
- 21 A (WITNESS MULLER) Many of the activities that
- 22 have occurred in the past will, in fact, occur in the
- 23 future.
- 24 So you would want to have that kind of
- 25 information, wouldn't you?

1 A (WITNESS MULLER) We would project it the best 2 we could. We would need some information. 3 Q You would want to examine, for example, a revised version of a QA manual that came out in June of 5 1982, for example, in order to see whether the various 6 tasks of the DQA Section had changed and therefore 7 whether you might need additional people; isn't that true? 8 9 A (WITNESS MULLER) I would consider something like that, and any other item that LILCO had committed 10 11 to that might change our activities. 12 C That would include, for example, revised 13 procedures, wouldn't it? 14 (WITNESS MULLER) Revised procedures, revised commitments to reg guides, any number of activities. I 15 16 would have to monitor our activities on a continuing basis, and I would have to estimate some of the 17 activities and project how many manhours they might take. 18 19 To your knowledge, that in fact wasn't done in preparing the planning report and the estimates for the 20 21 number of DQA personnel that would be needed in the initial period of plant operation; isn't that correct? 22 23 24

25

- 1 A (WITNESS MULLER) Those types of estimates
- 2 would have to be done.
- 3 Q But for some reason, the people that were
- 4 involved in that process saw fit not to include them in
- 5 the planning report that was going to have to justify
- 6 staffing levels? Is that your testimony?
- 7 A (WITNESS MULLER) You mean as far as the 1980
- 8 report?
- 9 Q Yes.
- 10 A (WITNESS MULLER) The activities listed in the
- 11 report were sufficient for planning. Once again, they
- 12 are general categories.
- 13 Q When you said that these activities or this
- 14 planning in terms of matching the activities in the
- 15 future with the number of man hours it would take to
- 16 perform them has to be done, are you suggesting they
- 17 were done but there are no documents that indicate that
- 18 they were done that were used in connection with the
- 19 planning of QA staffing up to a level of eight, as your
- 20 FSAR commitment provides?
- 21 A (WITNESS MULLER) No, that report provided that
- 22 planning. Once again, that report was written before
- 23 May of 1980 and it extended until 1982. It projected
- 24 some of the activities that would be performed during
- 25 that timeframe.

- 1 Q All right. Mr. Muller, let me move now to the
- 2 document entitled, "DQA Man Hour Projection, First Year
- 3 of Operation." Before I do that, let me just cover a
- 4 few more quick items on Exhibit 85, the Activities
- 5 Description, just so I can get this on the record. Do
- 6 you know who prepared this document?
- 7 A (WITNESS MULLER) Exhibit 85?
- 8 Q Yes.
- 9 A (WITNESS MULLER) That was prepared by the QA
- 10 engineer.
- 11 Q Do you have personal knowledge that the QA
- 12 engineer prepared this?
- 13 A (WITNESS MULLER) Yes. He told me that he had
- 14 prepared it.
- 15 Q Thank you. Do you know what was done with the
- 16 document after it was prepared?
- 17 A (WITNESS MULLER) I think I already testified
- 18 that it had never been used. It remained in his desk.
- 19 I had not seen it until a few weeks ago.
- 20 Q Thank you, I just wanted to clarify that.
- 21 JUDGE CARPENTER: Excuse me, Mr. Dynner, why
- 22 are we looking at this document if it was never used?
- 23 MR. DYNNER: Are you asking me, sir?
- 24 JUDGE CARPENTER: No, I'm asking the witness.
- 25 WITNESS MULLER: Judge Carpenter, that was

- 1 provided to the county in the spirit of the request that
- 2 had occurred a number of days ago. The county had
- 3 requested certain documents concerning manpower
- 4 projections and official reports that had been submitted.
- 5 MR. ELLIS: Judge Carpenter, I made the
- 6 decision to produce this document. It was disclosed. I
- 7 asked Mr. Muller to go back and see what he could find.
- 8 He went back and he said, I found this; I didn't know it
- 9 existed. It wasn't used, and in reading the transcript
- 10 and in being sensitive to what Judge Brenner had said, I
- 11 said let's give it to them. We had a meeting with them
- 12 and offered to discuss it at the time.
- 13 JUDGE BRENNER: Let me cut you off. Judge
- 14 Carpenter isn"t asking you why you turned it over, and
- 15 if you're looking for a word from me, it's very good
- 16 that you did turn it over. Certainly, if you want to
- 17 use the word "spirit" that's okay. It is very close to
- 18 the spirit, if not the letter, and we appreciate the
- 19 fact that you did turn it over. That's not the question.
- 20 JUDGE CARPENTER: I just was trying to be
- 21 sure. Maybe some months from now I might be looking at
- 22 these documents again, and I just wanted to be sure I
- 23 understood which ones were used and which ones weren't
- 24 used. We've spent a lot of time on this one that wasn't
- 25 used, and I just wanted to be sure that I understood

- 1 that. I thank you.
- BY MR. DYNNER (Resuming):
- 3 All right, Mr. Muller. Let me turn your
- 4 attention back to the OQA Manhour Projection, First Year
- 5 of Operation, and at the bottom it is entitled, -- it
- 6 states, "Attachment 2." This is SC Exhibit 86. Mr.
- 7 Muller, do you know when this document was prepared?
- 8 A (WITNESS MULLER) Yes, sir. Wednesday night.
- 9 This Wednesday night, the 17th of November?
- 10 A (WITNESS MULLER) Yes, sir. That would mean it
- 11 was put in final form. It was typed up on Thursday. 1
- 12 think that's when you received it.
- 13 Q Do you know who prepared this document, Mr.
- 14 Muller?
- 15 A (WITNESS MULLER) I prepared this in
- 16 conjunction with the QA engineer.
- 17 Q The QA engineer would be who?
- 18 A (WITNESS MULLER) At the site, Thomas Rose.
- 19 Well, you were here in Bethesda in this area
- 20 on November 17th. How did you get Mr. Rose's input?
- 21 A (WITNESS MULLER) Over the phone.
- 22 Thank you. Why was this document prepared,
- 23 Mr. Muller?
- 24 A (WITNESS MULLER) This document was prepared to
- 25 show that some of the numbers on Exhibit 85 were

- 1 unrealistic. Many of the activities described in 85 and
- 2 86 are similar. It shows a relationship between some of
- 3 the activities that had been performed in the past will
- 4 be performed in the future, and it shows activities that
- 5 will be performed in the future that haven't been
- 6 performed in the past, and activities that had been
- 7 performed in the past that will not be performed in the
- 8 future.
- 9 Once again, because they are related to the
- 10 pre-operational test program, they will not be carried
- 11 out through the operational program because the
- 12 activities will no longer exist.
- 13 Q So you prepared this document basically to
- 14 show that you disagreed with the activities description,
- 15 SC 85, which wasn't used by LILCO anyway. Is that
- 16 correct?
- 17 A (WITNESS MULLER) That is correct, in part. I
- i8 also wanted to show that some of the numbers were not
- 19 correct, and the reason why the Activities Description
- 20 described in 85 stood was because some of these
- 21 activities were going to continue through September 81
- 22 through September 82.
- 23 Q Do you have there a total of the numbers that
- 24 appear in your first year of operation manhours column
- 25 for us? Do you know what the total number is?

- 1 A (WITNESS MULLER) It's approximately 31,000.
- 2 And I'd like to add, Mr. Dynner, that some of those
- 3 numbers in the report are still high.
- 4 So you wanted to show by this document that
- 5 Mr. Durand's projection on the Activities Description,
- 6 Exhibit 85, in the last column for March 83 to March 84,
- 7 which was 47,140 hours, was a number that you don't
- 8 agree with. Is that correct?
- 9 A (WITNESS MULLER) First of all, it was Mr.
- 10 Rose, it was not Mr. Durand. And yes, I did want to
- 11 show that I do not agree with all the numbers in that
- 12 colunn. Once again, these are just estimates.
- 13 G For clarification, you said Mr. Rose prepared
- 14 the Activities Description?
- 15 A (WITNESS MULLER) Mr. Rose prepared Exhibit 85;
- 16 that is correct. Mr. Rose is the QA engineer.
- 17 JUDGE BRENNER: I was confused, too, so you'd
- 18 better be careful between the CA engineer and the CCA
- 19 engineer.
- 20 WITNESS MULLER: Okay, Judge Brenner, I will
- 21 try to keep 00A engineer and QA engineer and QC engineer
- 22 in the best context I can.
- 23 JUDGE BRENNER: Thank you.
- 24 BY MR. DYNNER (Resuming):
- 25 G Mr. Muller, if you were to take the 31,000 man

- 1 hours on your DQA man hour projection, how many DQA
- 2 personnel would that result in?
- 3 (Panel of witnesses conferring.)
- 4 A (WITNESS MULLER) It would be 13 at 20 percent
- 5 overtime and 15 at 10 percent overtime.
- 6 And how much if there was no overtime? How
- 7 many people would be involved?
- 8 A (WITNESS MULLER) Rounded up, 16. Once again,
- 9 let me add that some of the numbers, I feel, are still
- 10 high.
- 11 Q Yes. Now, if these are your numbers, Mr.
- 12 Muller, I'd like to work with them for a minute. If you
- 13 take the 31,000 man hours and you assume no overtime,
- 14 divided by 16, how many hours per person do you come out
- 15 with?
- 16 A (WITNESS MULLER) How many people was that?
- 17 C Your number was 16. Mr. Kelly, did you want
- 18 to --
- 19 A (WITNESS KELLY) No.
- 20 I thought you said that your 31,000 man hours
- 21 would require 16 people, assuming no overtime. Is that
- 22 correct?
- 23 A (WITNESS MULLER) That's approximately right,
- 24 yes.

25

- Q All right. So if you divide -- I wish I had my calculator here, I'd do it myself. If you divide
- 31,000 by 16, what do you get per person? Does anyone
- have a calculator?
- 6 A (WITNESS MULLER) 1937 1/2.
- 6 1937.5 hours.
- 7 JUDGE BRENNER: Did you ever get the base
- 8 hou, s per month that they used? Why don't we get that
- 9 in one place, and we can play around with the record
- 10 later if we need to.
- 11 WITNESS MULLER: Judge Brenner, it's 2,000 per
- 12 year.
- 13 JUDGE BRENNER: Thank you.
- JUDGE MORRIS: Which I observe is 40 times 52.
- 15 which doesn't allow any time for vacation, training, et
- 16 cetera.
- 17 WITNESS MULLER: Vacation may not be included,
- 18 but training is included in the man hours. Once again.
- 19 It's an estimate, it's a number to work with.
- 20 BY MR. DYNNER (Resuming):
- 21 The 1,937 1/2 hours per person are the actual
- 22 working hours to complete these tasks without any time
- 23 off for vacations, holidays, training, having lunch,
- 24 talking to coworkers or all the other good things people
- 25 do when they work. Isn't that correct?

- 1 A (WITNESS KELLY) As far as training -- that is
- 2 on page 2 of that exhibit -- those hours are
- 3 incorporated. Lunchtime, so far as the Long Island
- 4 Lighting Company is concerned, does not count as part of
- 5 your 40-hour work week. Working hours are in addition
- 6 to lunch. What were the other categories?
- 7 Q Vacations, holidays, talking to coworkers,
- 8 being sick, walking down the hallways, all kinds of
- 9 other things people do during the day that don't
- 10 constitute their actual attention to a specific task
- 11 that might be presented on this work list.
- 12 A (WITNESS KELLY) The difference between the
- 13 22,080 and the approximately 1940 hours gives you
- 14 approximately the three weeks left in the year, so you
- 15 can have two weeks vacation and a week sick. As far as
- 16 your question about talking to coworkers, walking down
- 17 the hallway, those factors are normally considered into
- 18 any estimate. I have never seen in any estimate of man
- 19 hours in any industry that I have ever seen where you
- 20 have hallway walking time as a category of man hour
- 21 expenditure.
- 22 So, Mr. Muller, your projection for the first
- 23 year of operation man hours that you have prepared for
- 24 us on this list, if matched up with your statement as to
- 25 the number of people you expect to use through the first

- 1 fueling outage for CQA staffing, which I believe was 14,
- 2 assumes that those 14 people are going to be working a
- 3 fair amount of overtime, doesn't it?
- 4 A (WITNESS MULLER) It does assume that they will
- 5 work some overtime, yes. We have to do that, and once
- 6 again, these numbers are just estimates. If the
- 7 overtime gets excessive, that indicates to me that I
- 8 need more people, and I will, in fact, get more people.
- 9 I'd like to add another thing, Mr. Dynger. If
- 10 there comes a time when there are more activities going
- in on than the average number of activities, I may have to
- 12 supplement even more people during a shorter timeframe.
- 13 You testified that at 20 percent overtime,
- 14 which is the maximum, isn't it, in terms of the
- 15 requirements of Exhibit 84 which is the Overtime Control
- 16 Guidelines, isn't that right?
- 17 A (WITNESS MULLER) No, sir. 20 percent
- 18 indicates that that is a goal for the plant supervisory
- 19 personnel. I think the number of a maximum of 33
- 20 percent is listed and then it requires special
- 21 management approval for someone to exceed 33 percent of
- 22 his regular work hours.
- 23 C All right. Well, the overtime work hour
- 24 guidelines, as they are referred to in your Overtime
- 25 Control Guidelines, Exhibit 84, are 20 percent for

- 1 supervisors and physical workers, isn't that true?
- 2 A (WITNESS MULLER) The guidelines are 20 percent
- 3 for physical workers and supervisors, yes.
- 4 Q And 10 percent for clerical workers, right?
- 5 A (WITNESS MULLER) That is correct.
- 6 Q What classification would the DQA Section
- 7 personnel fall under?
- 8 A (WITNESS MULLER) As I testified before, they
- 9 would be considered supervisory personnel.
- 10 I'd like to add that in all the estimates
- 11 we've hau, the clerical time was not included. We did
- 12 not include the clerical individual in our manpower
- 13 estimates.
- 14 G So if your 31,000 man hours result, as you
- 15 have testified, in 13 people at 20 percent overtime
- 16 numbers, which is the maximum guideline, then your
- 17 projection or decision to use 14 people is not very
- 18 conservative, is it?
- 19 A (WITNESS MULLER) It's conservative anough for
- 20 me.
- 21 JUDGE BRENNER: Mr. Dynner should we take a
- 22 break now, or are you going to finish in the next couple
- 23 of minutes?
- 24 MR. DYNNER: I hope I'll be able to finish in
- 25 just a few more minutes, Judge Brenner.

- 1 JUDGE BRENNER: All right. 2 BY MR. DYNNER (Resuming): 3 Now, Mr. Muller, have you made any other Q projections for the staffing of the OQA Section on the 5 basis of comparing the tasks to be performed with the 6 number of man hours required to perform them for over 7 the next several years? 8 (WITNESS MULLER) No, Mr. Dynner, I haven't. 9 And the reason why I haven't is that I need a better baseline. By that I mean during the first year of 10 11 operations we're going to have a lot of activities going 12 on; some of them will not continue throughout the life 13 of the plant. The actual startup testing is initial for the plant. We will not go through that every time we 15 start up the plant. We will so through some initial 16 testing each time, but not the same magnitude. 17 We also may perform other activities that I'm not aware of yet. It may take us more time to perform 18 19 inspections than I'm aware of. During the first year of operations, I will have a very good handle on what is 20
- At the time that Mr. Rose wrote up Attachment 23 85, I was, in fact, at Millstone for a month visiting 24 that plant, and that gave me an idea of what activities 25 went on during operations. Both units were in

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- 1 JUDGE BRENNER: Back on the record. What's
- 2 the pleasure of the parties?
- 3 MR. ELLIS: Judge Brenner, as I understood it,
- 4 we will go until 12:30 and then we would take up the
- 5 other matters; is that correct?
- 6 JUDGE BRENNER: If you want to. If you feel
- 7 that there is nothing useful you can accomplish, we
- 8 won't. I wanted to know whether the staff wanted to ask
- 9 questions about staffing now.
- 10 MR. BORDENICK: I have no questions at the
- 11 present time.
- 12 JUDGE BRENNER: So you have a half hour's
- 13 redirect that you want to do.
- 14 MR. ELLIS: Yes, sir. I can make use of half
- 15 an hour if the Board thinks that's useful. What I'd
- 16 like to do is ask just a few questions on the last point
- 17 that was raised, not staffing as a whole, and then go on
- 18 to another topic that I think I can cover in whole
- 19 before the 12:30 period.
- 20 JUDGE BRENNER: Fine.
- 21 MR. ELLIS: That other topic, for everyone's
- 22 convenience, would be organization generally.
- JUDGE BRENNER: Okay.
- 24 REDIRECT EXAMINATION
- 25 BY MR. ELLIS:

- Mr. Muller, prior to the break you mentioned,
- 2 in response to Mr. Dynner's question, that you had spent
- 3 some time at Millstone. How long did you spend at
- 4 Millstone?
- 5 A (WITNESS MULLER) I spent four weeks at
- 6 Millstone and that was September of 1981.
- 7 O Did you have an opportunity to observe their
- 8 Operational QA Division in operation, their functions,
- 9 their duties?
- 10 A (WITNESS MULLER) Yes, sir, I spent the four
- 11 weeks within that group.
- 12 Q And are they, the duties the uperational QA
- 13 Section at Millstone, did you find them essentially
- 14 similar to or different from the duties and
- 15 responsibilities that you are familiar with at Shoreham
- 16 for the DQA Section?
- 17 A (WITNESS MULLER) The activities and
- 18 responsibilities were very similar.
- 19 Q And did the Millstone CQA Section report to an
- 20 on-site plant manager or off-site?
- 21 MR. DYNNER: Judge Brenner, pardon me. It
- 22 seems to there's an awful lot of leading questions going
- 23 on here, and I will leave it to the Spard, but I do want
- 24 to object.
- 25 JUDGE BRENNER: I didn't think the last one

- 1 was leading.
- 2 MR. DYNNER: Maybe the other three were. I
- 3 was waiting to see how far it would be carried.
- 4 JUDGE BRENNER: I'm not prepared to comment
- 6 directly unless I go back and hear the other questions,
- 6 and I don't want to do that. Let's see what happens
- 7 from here on in.
- BY MR. ELLIS (Resuming):
- 9 Do you remember the question, Mr. Muller?
- 10 A (WITNESS MULLER) Yes, Mr. Ellis. The QC/QA
- 11 engineer, supervisor, whatever his title was -- and I
- 12 don't specifically remember -- reported to on-site
- 13 mangement. The management level that he reported to
- 14 reported to the site superintendent. That's a
- 15 multi-unit facility.
- 16 JUDGE BRENNER: Do you want to say how many
- 17 units, for the record?
- 18 WITNESS MULLER: There are two units in
- 19 operation, one unit under construction; a total of three
- 20 units.
- 21 BY MR. ELLIS (Resuming):
- 22 Were the duties and responsibilities of the
- 23 DGA Section at Millstone limited to the two operating
- 24 units?
- 25 A (WITNESS MULLER) Yes, they were. The QA/QC

- 1 responsibilities were covered by a different section at
- 2 the construction unit.
- 3 Q How many people were in the Millstone CCA
- 4 Section?
- 5 A (WITNESS MULLER) In the operating section
- 6 there were 12 people.
- 7 MR. ELLIS: Judge Brenner, I'm now going to
- 8 turn to the general subject of organization.
- 9 BY MR. ELLIS (Resuming):
- 10 G Mr. Muller, in your cross examination, I
- 11 believe you testified that the two organizations with
- 12 LILCO with primary responsibility for quality assurance
- 13 were the CQA Division and the Quality Assurance
- 14 Department. Is that correct?
- 15 A (WITNESS MULLER) That is correct. The Quality
- 16 Assurance Department has the overall responsibility for
- 17 establishing and implementing the LILCO corporate QA
- 18 program. The DQA Section is responsible for
- 19 implementing the GA program at the Shoreham operating
- 20 plant.
- 21 Q Does the QA Department have any on-site
- 22 quality assurance functions?
- 23 A (WITNESS KELLY) Yes, they do, Mr. Ellis. They
- 24 include such things as the auditing of the Station QA
- 25 organization, review of the Station DQA procedures,

review of all station LILCC deficiency reports, review 1 of all non-destructive examination reports initiated from the station, review of all in-service inspection reports initiated at the station, approval of the audit 5 schedule, the station GQA, audits of fire protection 6 security, emergency planning, environmental monitoring 7 and also would be involved with the resolution of differences that might come up between -- regarding 8 quality matters between the Plant Manager and Station 10 DOA. As I said, those are the activities that 11 12 relate to directly the on-site activities. There are 13 additional Quality Assurance Department activities performed offsite. 14 15 16 17 18 19 20 21 22 23 24

25

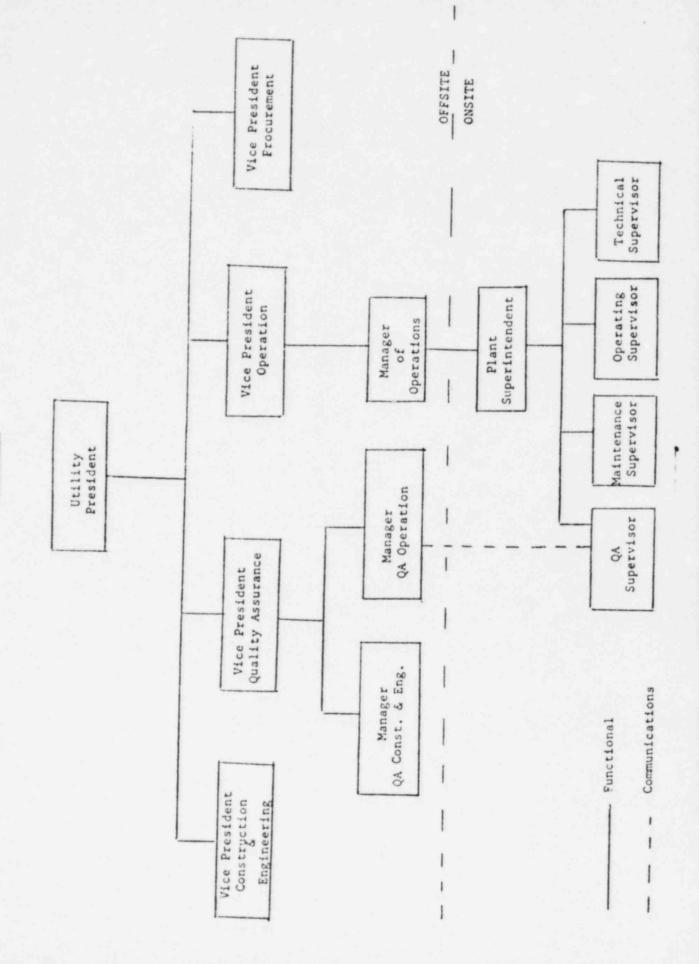
- 1 Q Mr. Kelly, you mentioned in your answer, I
- 2 think you said something about resolution of
- differences. Could you elaborate on that please, sir?
- 4 A (WITNESS KELLY) Should a quality problem
- 5 arise which cannot be resolved between the station CQA
- 6 engineer and the plant manager, the DQA engineer has the
- 7 right to go to the Quality Assurance Department
- 8 manager. At that time the Quality Assurance Department
- 9 manager, together with the station OGAE, would discuss
- 10 the matter with the plant manager. If successful
- 11 resolution of that could not occur, the Quality
- 12 Assurance Department manager would additionally go to
- 13 the vice president of Nuclear. If that could not occur,
- 14 he would then go to the vice president of Engineering
- 15 and the issue would continue to escalate up, if
- 16 necessary, to the president of the company.
- 17 [Counsel for LILCO conferring.]
- 18 C Mr. Muller, you were asked a number of
- 19 questions concerning the organizational structure of the
- 20 CA organizations at LILCO. Does Criterion 1 of Appendix
- 21 B require or mandate a specific organizational reporting
- 22 structure for the QA organizations on site?
- 23 A (WITNESS MULLER) No, but it does mandate that
- 24 we report to a management level sufficiently free from
- 25 cost and schedule when compared to safety considerations.

- 1 Q All right. Is that the statement that appears
- 2 in Appendix 8 that requires that you have sufficient
- 3 independence?
- 4 A (WITNESS MULLER) That is the statement I'm
- 5 talking about, yes.
- 6 Are you aware of any NRPC-published guidance
- 7 on quality assurance organizational structures to
- 8 achieve the sufficient independence required by
- 9 Criterion 1 of Appendix 8?
- 10 A (WITNESS MULLER) Yes, sir. That would be
- 11 WASH-1284, 1973, ANS 3.2 or ANSI N.18.7, and Reg Guide
- 12 1.33. If I may quote from those documents --
- 13 Q If you are going to read from a document,
- 14 would you preface what you are reading with what
- 15 document it is from and what page number, and then let's
- 16 wait a minute to see if the parties need a chance to
- 17 look at it.
- 18 A (WITNESS MULLER) I am going to start out with
- 19 the WASH document, page D-4. I am not going to read it,
- 20 I am just going to paraphrase. That page sets examples
- 21 of acceptable organizations as shown in Figures 1, 2, 3
- 22 and 4. LILCO, in fact, follows Figure 2 of the four
- 23 figures, which allows an onsite QA/QC organization to
- 24 report to a plant manager or plant superintendent as
- 25 long as our activities are monitored by an offsite QA

1	organization.
2	Rathar than paraphrase, Mr. Muller, why don't
3	you just read the statement. And for the convenience of
4	parties and the Board, I would like to hand out this
5	chart and have it marked so that we can have the witness
6	refer to it. I believe it would be LILCG Exhibit 39.
7	JUDGE MCRRIS: It would be 38.
8	(The document referred to
9	was marked LILCC Exhibit
10	No. 38 for
11	identification.)
12	WITNESS MULLER: Specifically, the second
13	paragraph reads, "Examples of acceptable organizations
14	are shown in Figures 1, 2, 3 and 4. Specifically
15	related to onsite quality assurance activities, the
16	quality assurance supervisor should be responsible for
17	assuring that the quality assurance program at the
18	nuclear power plant site is being effectively
19	implemented. The quality assurance supervisor should be
20	knowledgeable and experienced in nuclear power plant
21	operations phase activities and should have no other
22	duties and responsibilities so that he can direct his
23	full attention to this effort.
24	*The activities of the onsite quality
25	assurance supervisor should be audited by offsite

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1 personnel to determine the effectiveness of these
 2 activities."
             BY MR. ELLIS: (Resuming)
         Q All right, Mr. Muller. The figure that you
 5
    referred to -- do you have LILCO Exhibit 38 in front of
    you?
 7
     A (WITNESS MULLER) Yes, sir.
 8
              JUDGE BRENNER: Let's bind it in for
    convenience at this point.
10
             [The document referred to, LILCO Exhibit 38
    for identification, follows:]
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Figure 2



- 1 BY MR. ELLIS: (Resuming)
- 2 Is that figure from the WASH document?
- 3 A (WITNESS MULLER) Yes, sir.
- 4 Q And it has Figure 2 on the top of it. Is that
- 5 one of -- you said there were four permissible
- 6 organizations. Is this one of the permissible
- 7 organizations?
- 8 A (WITNESS MULLER) Yes, sir.
- 9 C Is Figure 2 the organization that LILCO has
- 10 followed?
- 11 A (WITNESS MULLER) Figure 2 is the organization
- 12 that LILCO is following.
- 13 C In your opinion, does LILCO meet the criteria
- 14 or the standards that you read from the WASH-1284
- 15 document?
- 16 A (WITNESS MULLER) Yes, we do.
- 17 JUDGE BRENNER: Did we ever get the full title
- 18 of that document?
- 19 BY MR. ELLIS: (Resuming)
- 20 Q Mr. Muller, do you have a full title there?
- 21 A (WITNESS MULLER) I am missing the first page.
- 22 I don't want to misquote the title.
- 23 MR. ELLIS: Give us a moment, Judge Brenner.
- 24 We may have it here.
- 25 [Pause.]

- 1 JUDGE BRENNER: With the help of page 12 of
- 2 Mr. Hubbard's prefiled testimony, there is a document
- 3 referenced there as WASH-1284, October 26, 1974,
- 4 entitled "Guidance on Quality Assurance Requirements
- 5 during the Operations Phase of Nuclear Power Plants."
- 6 Does that sound like the title to you, Mr. Muller?
- 7 WITNESS MULLER: That is correct. I just
- 8 didn't want to misquote it.
- 9 JUDGE BRENNER: And this is issued by whom? Do
- 10 you know?
- 11 WITNESS MULLER: The NRC.
- 12 JUDGE BRENNER: The NRC Staff? Well, let me
- 13 ask your counsel. You are not ascribing any weight to
- 14 this document besides staff guidance, are you?
- 15 MR. ELLIS: That is right, Judge Brenner.
- 16 BY MR. ELLIS: (Resuming)
- 17 Q All right, Mr. Muller. You mentioned other
- 18 guidance from the NRC with respect to what constitutes
- 19 sufficient independence for quality assurance onsite
- 20 organizations. What were the others?
- 21 A (WITNESS MULLER) The other documents?
- 22 Q Yes.
- 23 A (WITNESS MULLER) That would be ANS 3.2 or
- 24 ANSI N.18.7, which is entitled "Administrative Controls
- 25 and Quality Assurance for the Operational Phase of

- 1 Nuclear Power Plants."
- 2 All right, that is an industry standard, not
- 3 an NRC-published guidance, isn't it?
- 4 A (WITNESS MULLER) That is correct, but Reg
- 5 Guide 1.33 endorses it.
- 6 All right, thank you.
- 7 Is there something in the ANSI or ANS document
- 8 that refers to organizational structures, and if so,
- 9 would you give us a page and reference?
- 10 MR. DYNNER: Excuse me. Could you identify
- 11 the date of the ANSI 18.7 you are referring to and the
- 12 appli -- 1a revision of the Reg Guide, please?
- 13 WITNESS MULLER: That would be 1976. The reg
- 14 guide is Revision 2. I don't remember the exact date on
- 15 the res guide.
- 16 In reading from Paragraph 3.4.2 entitled
- 17 "Requirements for Onsite Operating Organizations," which
- 18 is on page 4, it says, "Reporting to an onsite plant
- 19 management is preferable since such an arrangement
- 20 usually results in improved communications and
- 21 identifying problems and initiating corrective action."
- This refers to the Operational QA Section.
- 23 BY MR. ELLIS: (Resuming)
- 24 Q Is what you just read, Mr. Muller, from the
- 25 ANSI Standard N.18.7-1976?

- 1 A (WITNESS MULLER) Yes, sir.
- 2 Q and what page, again, was that?
- 3 A (WITNESS MULLER) Page 4.
- 4 G Has the NRC indicated endorsement of this ANSI
- 5 standard?
- 6 A (WITNESS MULLER) Yes, through the Reg Guide
- 7 1.33.
- 8 Q That was Revision 2?
- 9 A (WITNESS MULLER) Yes, sir. And this
- 10 document, once again, notes that if the CA organization
- 11 reports onsite, it must be audited by an offsite
- 12 organization.
- 13 Q I think you have already testified, but let me
- 14 ask it again. Is the CQA Section at the Shoreham
- 15 station audited by an offsite organization?
- 16 A (WITNESS KELLY) Yes, it is. It is audited by
- 17 the Quality Assurance Department.
- 18 Is it also audited by any other organizations?
- 19 A (WITNESS KELLY) The Nuclear Review Board.
- 20 Mr. Muller, in reading from the ANSI standard,
- 21 it indicated, I think the words were, that it was
- 22 preferable. Do you consider that there are advantages
- 23 to the organizational structure that has been selected
- 24 by LILCO?
- 25 A (WITNESS MULLER) Yes, sir, I do.

- 1 Can you tell us why?
- 2 A (WITNESS MULLER) First of all, we are a
- 3 member of the plant staff organization. We are
- 4 considered members of the plant staff. We are not an
- 5 outside organization looking from the outside in. We do
- 6 report to the plant manager. The plant manager does
- 7 have the responsibility for implementing the quality
- 8 assurance program at the station. And as part of our
- 9 day-to-day activities, we are involved with daily
- 10 meetings and daily interfaces with all the members of
- 11 the station staff.
- I would also like to note that the only
- 13 responsibility that the CQA Section has is the
- 14 implementation of the QA program at the station; we are
- 15 not responsible for maintenance, operations, INC or any
- 16 other activities, nor do we report to the supervisors
- 17 responsible for those activities.
- 18 [Counsel for LILCO conferring.]
- 19 Q I think you also testified in your
- 20 cross-examination by Mr. Dynner that you were a member
- 21 as the DQAE of ROC. Is that also an advantage?
- 22 A (WITNESS MULLER) It is an advantage in that I
- 23 have a voice in the approval of procedures other than
- 24 the normal review cycle and at the signature cycle. I
- 25 participate and the members provide input, the quality

- 1 assurance input into those procedures. And at the
- 2 meetings, I am able to voice quality concerns.
- 3 Q You said that you were involved or at least
- 4 exposed to the day-to-day operations of the plant. What
- 5 is the advantage, in your view, of that?
- 6 A (WITNESS MULLER) Being a member of the plant
- 7 staff, I am obligated to attend the plant staff
- 8 meetings, daily meetings. As far as the communication
- 9 is concerned, as far as the distribution of the reading
- 10 list and reading material, I am required to review that
- 11 material as a member of the plant staff. They have
- 12 direct control over the distribution, and the fact that
- 13 I am a member of the plant staff means that I have to in
- 14 fact review it.
- 15 JUDGE BRENNER: You don't have to be a member
- 16 of the plant staff to engage in the activities you have
- 17 just described, do you?
- 18 WITNESS MULLER: Possibly not all the
- 19 activities. However, we are not involved with working
- 20 with offsite organizations as far as the distribution of
- 21 mail and that type of thing. The information doesn't
- 22 come from another organization offsite in Hicksville; it
- 23 comes from the plant. It would take much longer to
- 24 disseminate that information going back up the chain and
- 25 back down again.

- 1 JUDGE BRENNER: Well, can't you be exactly
- 2 where you are physically, exactly where you are in terms
- 3 of your mail delivery, exactly where you are in the
- 4 distribution lists and yet not report through the plant
- 5 staff? I am trying to understand the balance of
- 6 advantages and disadvantages to different organizations
- 7 that you are pointing out.
- 8 WITNESS MULLER: Yes, Judge Brenner, I would
- 9 receive the mail no matter where my location was or who
- 10 I reported to; however, I think the one factor that is
- 11 involved is that, which I did state, is that I am a
- 12 member of the plant staff, I am not an outsider.
- 13 WITNESS KELLY: Judge Branner, along those
- 14 lines, if someone is having a staff meeting, obviously
- 15 you could put a requirement that some exterior
- 16 organization attend, but I think the freedom and
- 17 exchange of information is a lot better when the staff
- 18 meeting is consisting of just staff and not outsiders.
- 19 I think it promotes for probably a more effective
- 20 meeting for exchange of information, especially to the
- 21 DOAE.
- 22 WITNESS MULLER: I think, Judge Brenner, as a
- 23 member of the plant staff I am required to attend those
- 24 meeings, whereas being from an outside organization, my
- 25 presence may or may not be known or no one might have a

- 1 concern about it because no one in an offsite
- 2 organization would know if I went to the meetings or
- 3 not, whereas on a day-to-day basis, the plant manager
- 4 does know who goes to the meetings and who does come
- 5 prepared to attend those meetings.
- It is a matter of you instill the fact that
- 7 you are a member of that organization, you are not an
- 8 outsider. You are part of the organization. Quality is
- 9 part of the plant staff organization. We are not an
- 10 outside concern. We are not just concerned about the
- 11 paperwork. We are concerned about everything, the
- 12 operations, the maintenance; and anything that goes on
- 13 at the plant, we need to be aware of it and we need to
- 14 impress everyone that Quality is part of that
- 15 organization and it is part of the requirements.
- 16 BY MR. ELLIS: (Resuming)
- 17 Q Mr. Kelly and Mr. Muller, do the DQA
- 18 Departments and the QA Department manager -- let me
- 19 rephrase that. Do the OGAE and the GA Department
- 20 manager have sufficient authority and organizational
- 21 freedom and independence, in your opinion, to implement
- 22 the QA program at Shoreham?
- 23 A (WITNESS MULLER) Yes, we do. 3oth the DOAE
- 24 and the QA Department manager report to management
- 25 levels that are adequate. They are sufficiently free

- 1 from cost and schedule obligations. I report to the
- 2 plant manager. The plant manager is responsible, in
- 3 addition to the plant, he is responsible for
- 4 implementing the quality assurance program at the
- 5 plant. And that is described in the QA manual.
- 6 The QA manager has the same responsibility in
- 7 addition to establishing and implementing the QA
- 8 program, but on a corporate level. The QA manager
- 9 reports to a level of management outside the
- 10 VP-Nuclear. He reports to the vice president of
- 11 Engineering. The interface between the two provides me
- 12 with additional independence that I need.
- 13 The QA manager audits my operations or my
- 14 activities. He assesses my activities and reports those
- 15 assessments to his management and the plant manager.
- 16 MR. ELLIS: Judge Brenner, I am not going to
- 17 be able to finish this section within the next five
- 18 minutes or so, so that being the case, perhaps this is
- 19 an appropriate point.
- 20 JUDGE BRENNER: Okay. Let's halt the
- 21 testimony, and thank the witnesses for their appearances
- 22 again and we will be seeing you again. Where or when,
- 23 we will find out soon, sooner or later, anyway. So thank
- 24 you again.
- I am not sure what order to take some of these

- 1 miscellaneous things up. Let me take up some emergency
- 2 planning matters first since I think that is severable
- 3 from the other scheduling matters. We received in our
- 4 office about an hour ago Mr. Shapiro's filing. In
- 5 addition, the counsel for the County apparently just
- 6 this morning received it also and had provided us
- 7 another copy just now, which we appreciate.
- 8 Mr. Shapiro unfortunately put it in the
- 9 Federal Express yesterday, which obviously did not
- 10 ensure that we receive it on the due date, which was
- 11 yesterday. Nevertheless, we are going to take it into
- 12 account. We have read it. I read it during the break,
- 13 the last break, and I want to take note on the record of
- 14 some things in his filing so he can be apprised of what
- 15 we are saying through the courtesy of the County.
- 16 In the first instance, Mr. Shapiro raises two
- 17 matters that were not previously raised by the County or
- 18 SCC in objection to our procedure. I deem both of them
- 19 to be in the category of flexibility of procedural
- 20 implementation, and that is why I want to make note of
- 21 them now, because they are exactly the kind of thing
- 22 that we can discuss at the Tuesday conference and
- 23 accommodate or see if we can't accommodate, and if we
- 24 cannot accommodate them, then take appropriate action.
- 25 One of the matters is the matter of NSC's

- 1 financial ability to pay a court reporter for the
- 2 depositions. We will be prepared to discuss that matter
- 3 on Tuesday. The other matter, one difference that Mr.
- 4 Shapiro raises is his view that a deposition is
- 5 different from a hearing because counsel can talk with
- 6 the witness, whereas counsel cannot consult with the
- 7 watness at the hearing. That is exactly a minor
- 8 procedural detail of the type that we can discuss on
- 9 Tuesday.
- 10 So to the extent that those are important
- 11 reasons to Mr. Shapiro, he is well advised to attend on
- 12 Tuesday because we can discuss and accommodate his
- 13 concerns, or attempt to accommodate them. In addition,
- 14 Mr. Shapiro's cover letter states that he is waiving his
- 15 right to participate in the hearing. I think from the
- 16 context, he means the conference. In any event, that
- 17 is consistent with his conversation with my secretary
- 18 yesterday.
- 19 In part that is based on his belief that the
- 20 only things that will transpire will be argument on the
- 21 motions to strike and the motion for summary judgment
- 22 and the Board's proposal for evidentiary depositions, as
- 23 he terms them. As we stated, we think the latter is
- 24 very important for him to be there, particularly given
- 25 the points he raises, which were discussed. In

- 1 addition, we are not limiting the discussion. We may
- 2 well get into other procedural matters that affect
- 3 emergency planning, and we are not going to preclude
- 4 that.
- 5 So we are going to New York at the last
- 6 moment, as we indicated yesterday, and this should make
- 7 it easier for him. We rescheduled it for SCC, and on
- 8 the basis that Mr. Shapiro did not want to attend. Now,
- 9 if he says he wants to come but can't make that
- 10 particular time, we are just out of flexibility. Courts
- 11 and boards have to set some time for things, and to
- 12 accommodate one intervenor, this is exactly the
- 13 coordination we had hoped would be worked out among the
- 14 intervenors, who presumably are friendly enough to keep
- 15 talking to each other. If he can make only part of the
- 16 session, we will accommodate him by discussing his
- 17 concerns directly when he is there. We will do
- 18 everything we can to make it easy for him to be there,
- 19 but arrangements are made and we will have to meet on
- 20 Tuesday. So please call him and tell him about my
- 21 comments here.
- In addition, we will be prepared to take up
- 23 the matter of the proposed settlements on the emergency
- 24 planning contentions next Tuesday, so that parties
- 25 should have enough copies there to make exhibits and bind in if appropriate and so on.

- It's not yet 1:00 o'clock, so I wanted to ask
- 2 about the response to the motion for summary
- 3 disposition.
- 4 MR. LANPHER: I was told it would be here by
- 5 1:00 o'clock.
- 6 JUDGE BRENNER: It is imminent?
- 7 MR. LANPHER: It's imminent.
- 8 JUDGE BRENNER: The object was to get it very
- 9 shortly after we broke, and I assume that will be done
- 10 unless we hear differently.
- 11 That's all we have on emergency planning. I
- 12 don't know if the parties, as a result of whatever
- 13 discussion they've been able to have in the short time
- 14 available this morning, have any suggestions on what to
- 15 discuss first in terms of the schedule, in light of the
- 16 staff's schedule raised this afternoon. This morning I
- 17 mean.
- 18 MR. LANPHER: Let me start off with two
- 19 things. First, on Torrey Pines, we attempted during the
- 20 last break to try to see how the situation affects our
- 21 ability to participate. We think it will affect that,
- 22 and add some flexibility. But quite frankly, we didn't
- 23 have enough time to work it out.
- 24 What we would be willing to offer, Judge
- 25 Brenner, is that on Monday relatively early in the day,

- 1 we will transmit in writing to the Board and to the
- 2 parties, or to Hunton & Williams by telecopier, what we
- 3 would propose so that it could be available for
- 4 discussion on Tuesday and you would have it well in
- 5 advance.
- 6 JUDGE BRENNER: All right, that is certainly
- 7 very acceptable.
- 8 MR. LANPHER: We just didn't have time.
- 9 JUDGE BRENNER: Let me raise a suggestion and
- 10 you can think about it. We re-emphasize our point that
- 11 the prime possessor of the knowledge, at least so far,
- 12 is LILCO and its agents. It might be appropriate, in
- 13 order not to unduly delay matters, at the same time.
- 14 giving the county as full an opportunity as is fair and
- 15 reasonable to all parties, including the county, to
- 16 participate as fully as the county sees fit. And I
- 17 understand that after you look at everything you may
- 18 deem your participation not to be as full as you might
- 19 have thought.
- 20 I'm not going to claim that you misled us. I
- 21 understand your point that you want to make a decision
- 22 as to how fully to participate.
- 23 Given all that, we can get the LILCO testimony
- 24 filed on the date we have previously established along
- 25 the lines of what we asked for, December 7th. Have that

- 1 before us, set a staggered date for the filing of
- 2 additional testimony by the county, -- and I will
- 3 inquire of the staff in a moment -- of two weeks or
- 4 thereabouts, that would be the 21st, to work in
- 5 scmewhere around the time of the filing of LILCO by its
- 6 testimony a deposition, either shortly before the filing
- 7 of testimony or immediately thereafter. And that is
- 8 something the parties can think about, again, to aid the
- 9 county in focusing and formulating its testimony.
- 10 And then at the time of filing of the county's
- 11 testimony, it can file its testimony taking account of
- 12 LILCO's testimony and the deposition if you choose to
- 13 take one, and for that matter, if you wish, filing
- 14 portions of the deposition also in addition, either as
- 15 part of the testimony or as a reference which you
- 16 summarize in the testimony, and we would give LILCO the
- 17 opportunity on the 14th if a deposition is taken, to
- 18 file another brief supplement summarizing the
- 19 deposition, along with the applicable portions, along
- 20 with the portions that LILCO would seek to move into
- 21 evidence.
- That is one possibility and the parties might
- 23 think about that. Then we could be prepared to litigate
- 24 the matter shortly after the 14th. Not that week, of
- 25 course. I'm sorry, shortly after the 21st, which would,

- 1 I guess, push it into January, but early January.
- 2 That's one possibility. I'm sure there are a lot of
- 3 variations. That's just a suggestion for you to
- 4 consider and maybe talk about.
- 5 And then maybe we can get a coordinated filing
- 6 on Monday. I don't know if you have a quick reaction or
- 7 not. You can make it now or save it. Let me ask the
- 8 staff what its plans, if any, are with respect to Torrey
- 9 Pines.
- 10 MR. BORDENICK: Judge Brenner, I have probably
- 11 stated this prefatory comment before, but in any event,
- 12 I will state it again. The Torrey Pines report was not
- 13 prepared by LILCO in response to any regulatory
- 14 requirements, so to speak. I'll start with that
- 15 proposition.
- 16 The staff, of course, is aware of its
- 17 existence. The staff is aware that it has relevance to
- 18 portions of the contention and is of interest to the
- 19 Scard, and that the Board will want the benefit of the
- 20 staff's view on it.
- 21 From the standpoint of the former aspect; that
- 22 is, it's not submitted as part of a regulatory
- 23 requirement, the staff is not planning to make a formal
- 24 detailed type of review that they would make in a normal
- 25 context. The report has been read completely by one

- 1 staff member, and I guess his general comment is he has
- 2 -- he thinks it's a good report and he has no problems
- 3 with the report. This is what I'm told. I haven't had
- 4 an opportunity to fully discuss it with that particular
- 5 staff member yet.
- 6 Other staff members have reviewed portions of
- 7 it, are still in the process of reviewing it. There is,
- 8 I think, an informal interest at least among staff on
- 9 this type of report, not only for Shoreham but for any
- 10 other facility.
- I think that preparation of testimony at this
- 12 point isn't going to produce any kind of testimony
- 13 that's going to be meaningful to the Board, so in that
- 14 sense, I would say that no, we won't be filing testimony.
- 15 On the other hand, I'd like to keep the option
- 16 open, and certainly, I think that members of the staff
- 17 panel are going to be prepared to address any questions
- 18 that the Board might have on the report at the
- 19 appropriate time. But whether the staff will put these
- 20 views down ahead of time in a report or in testimony, at
- 21 least in the short period of time that I have had to
- 22 consider the question posed by the Board of whether or
- 23 not the staff is going to file testimony, I would say
- 24 the answer is no.
- 25 JUDGE BRENNER: Give me one moment.

1	(Board	conferring.)

9

minimum.

- JUDGE BRENNER: Let's leave it like this. We

  appreciate that the staff's witnesses will be prepared

  to answer questions about Torrey Fines. We understand

  it's not going to be a full review of everything the

  Torrey Pines people did. And staff and parties know we

  are very interested in the significant results of that

  report and would expect them to be prepared on that as a
- 10 In addition, if we adopt a staggered filing 11 procedure, this should give the staff an opportunity to 12 consider it; whether it would be more efficient to set 13 down in writing at the time would require another filing from the other parties. Anything they might wish to 14 say. That could be very efficient in the hearing process 15 so that we don't have to get everything here through 16 oral cross examination and oral questions from the Board. 17
- The staff, it occurs to us, can bring a

  perspective to the significant results in line with the

  type of -- in the context of the review the staff has

  done, including the CAT inspection, in the context of

  the kind of review of this nature that has been done or

  is being contemplated at other facilities by Torrey

  Pines or other organizations.
- 25 It's a perspective that LILCC is not in as

- 1 good a position to give us as the staff is, and that is
- 2 something that I'm certainly not in a position to say
- 3 how important it is, but potentially, it could be
- 4 helpful. And I'd like the staff to consider that, and
- 5 consider the knowledge of people it has here in light of
- 6 that.
- 7 MR. BORDENICK: We certainly will take that
- 8 into consideration, Judge Brenner. I don't want to
- 9 imply that it's a closed matter, at this point. But in
- 10 answer to your direct question, do we presently intend
- 11 to file testimony, based on my limited opportunity to
- 12 pursue this matter, I don't think we could really
- 13 present any kind of fruitful testimony.
- 14 It may be that after, on a staggered filing
- 15 schedule, we will see something and we will certainly
- 16 come in with some prefiled testimony in line with any
- 17 schedule the Board might set, in addition to any verbal
- 18 questions that the parties or the Board would have.
- 19 JUDGE BRENNER: We would expect the staff
- 20 witnesses, as I said, to be able to discuss their view
- 21 of the significant results of the study. And if they're
- 22 going to be prepared to do that, it might be more
- 23 efficient to write it out.
- 24 MR. BORDENICK: Well, we will certainly
- 25 consider that.

- 1 MR. ELLIS: Judge Brenner, would you entertain
- 2 an observation or two concerning what the Board is
- 3 thinking about in terms of Torrey Pines?
- 4 JUDGE BRENNER: Yes. These are just proposals
- 5 for you to consider to stimulate your thinking.
- 6 MR. ELLIS: Let me offer my first impression.
- 7 With respect to depositions, the Board originally, I
- 8 think recognizing that this is a voluminous document and
- S a lengthy study involving thousands of hours and
- 10 thousands of components and structures and so forth, I
- 11 think very sensibly and appropriately indicated that the
- 12 deposition should not be without limit; that the
- 13 deposition should be focused.
- 14 And pursuant to that, the Board indicated that
- 15 there ought to be a time limit. I've forgotten what it
- 16 was now, a day or a day and a half. And in order for
- 17 the answers to be reasonably focused, that LILCO and
- 18 Torrey Pines should have an opportunity or should be
- 19 told in advance by the county which areas and which
- 20 particular findings they were interested in.
- 21 Now subsequent to that, of course, the county
- 22 indicated that they couldn't be prepared to take the
- 23 deposition. The Board indicated that they still would
- 24 offer that opportunity and in connection with that, I
- 25 suggested that we still wanted those limitations or

- those aides, and the Board appropriately I think pointed
- 2 out that it wouldn't do any good, since they weren't
- 3 prepared to give it.
- 4 But if we're now going to go to a procedure
- 5 where they are going to be prepared, it seems to me that
- 6 the same considerations that led the Board initially to
- 7 impose both the time and subject matter not limits but
- 8 focusing would be very appropriate in this context. And
- 9 we certainly would want them if we're going to do it in
- 10 the way the Board has outlined.
- 11 JUDGE BRENNER: Well, preliminarily, I think
- 12 that makes a lot of sense. Again, I will let the
- 13 parties discuss it. It would certainly make sense to
- 14 have the witnesses prepared with the answers at the
- 15 deposition. In order to be assured of that, we would
- 16 want to get an identification of the matters being
- 17 inquired into from the county.
- 18 The extent of the identification might vary a
- 19 little depending on whether the deposition is before or
- 20 after the testimony is filed. I'll let you all discuss
- 21 the timing, too. There should be some limitations on it
- 22 so it doesn't detract from other matters going on.
- 23 On the other hand, the more limited it is,
- 24 then the more that is left for the hearing after in
- 25 terms of probing and so on. So I'll let the parties try

- 1 to draw that balance. But I agree that it should be
- 2 scheduled in advance so that the witnesses have an idea
- 3 when they are coming and when they are leaving and so on.
- And we would also be inclined, as we were
- 5 previously, to allow a time for questioning by all
- 6 parties, so that matters can be focused, and even some
- 7 follow-up questions if time permits. Especially since
- 8 what we contemplate preliminarily is that the county
- 9 would not have to file its testimony until after that
- 10 deposition. And that kind of focusing would be ideal I
- 11 think for assisting the county, which in turn will
- 12 assist the record in focusing on the important matters.
- 13 So it sounds like a good idea to talk about it.
- 14 MR. LANPHER: Judge Brenner, I have some
- 15 information to report on the ICC issue, if you want to
- 16 take that up.
- 17 JUDGE BRENNER: Yes. It's my assumption that
- 18 what we would do -- and I guess I should check the
- 19 parties' agreement on that -- is to finish quality
- 20 assurance other than operational quality assurance, at
- 21 least other than the procedures and so on, that aspect,
- 22 and whether or not we should also hold off on other
- 23 related, arguably related matters such as anymore on
- 24 staffing, or maybe just operational QA in total. I'll
- 25 let you think about it and we will hear from you.

- 1 But in any event, some part is separated out.
- 2 We would go ahead with all the quality assurance/quality
- 3 control matters that we can with Mr. Hubbard, and then
- 4 in turn, staff witnesses. After completing the staff
- 5 witnesses, go to another subject which we think should
- 6 be inadequate core cooling. Am I in line with the
- 7 parties' thinking so far?
- 8 MR. LANPHER: That's my understanding.
- 9 MR. BORDENICK: That is ours, Judge.
- 10 MR. ELLIS: Excuse me, Your Honor. We still
- 11 plan, do we not, to complete OGA entirely with respect
- 12 to LILCO?
- 13 JUDGE BRENNER: If you want to. I have left
- 14 it up to you. And in fact, I think I offered the fact
- 15 that given this natural break you can think about it
- 16 beyond today. I am not capable right now of carefully
- 17 parsing what would be productive and what would have to
- 18 be repeated. And I think the parties are in a better
- 19 position to decide that, and you don't have to do it by
- 20 negotiation. I'll leave it up to LILCO to decide for
- 21 itself how far it, on its own, wants to go with the
- 22 redirect now as distinguished from later.
- 23 We encourage going ahead with the redirect on
- 24 things that you think are readily severable from that
- 25 which the staff is looking at. I don't know what those

- 1 things are precisely that are readily severable.
- 2 MR. DYNNER: Excuse me, Judge Brenner, I would
- 3 just like to make one observation. And that is that the
- 4 cross examination in the original prefiled testimony of
- 5 LILCO all took place without the input of the staff.
- 6 I'm a little bit puzzled as to why there's any
- 7 particularly good reason now to further bifurcate the
- 8 redirect examination on DQA.
- 9 And in any case, I would like to observe that
- 10 whatever you determine on that, certainly I would hope
- 11 that our schedule would be taken into consideration as
- 12 well. I mean that both from the county's point of view
- 13 and from the attorneys that are working on these various
- 14 matters.
- JUDGE BRENNER: Well, we will do what we can
- 16 in terms of scheduling. But you know, I have often
- 17 stated the view that as we get to things, we get to
- 18 them. Obviously, we won't just say show up in two
- 19 minutes. On the other hand, there may be some
- 20 uncertainty because it will depend on when we finish the
- 21 matter before.
- 22 But certainly, if there is one subject that we
- 23 keep talking about in this proceeding, it is
- 24 scheduling. So we will know where we're going. we'll
- 25 see what the flexibility is.

- In terms of substance, that one we will
- 2 certainly take cognizance of, what has changed, if
- 3 anything, as a result of further matters being looked
- 4 at. I want to leave it up to LILCO to separate out the
- 5 redirect if it wants to because I don't want to hear a
- 6 lot of redirect on things that may change.
- 7 MR. ELLIS: Judge Brenner, we will consider
- 8 that, given what you have said. We will also discuss it
- 9 with the county.
- 10 I might observe preliminarily that based on
- 11 what Mr. Dynner just said, that he doesn't see any
- 12 reason for bifurcation, we agree. We don't think there
- 13 should be any bifurcation of Mr. Hubbard's testimony
- 14 either. We would be prepared to co forward with that as
- 15 a whole as well. We don't thirk the staff's necessarily
- 16 should have anything to do with what he's already
- 17 prefiled.
- 18 JUDGE BRENNER: The large bulk of what he has
- 19 prefiled is not going to be affected, it's my
- 20 recollection. However, it seems useless to everybody,
- 21 including us, to require any examination of Mr. Hubbard
- 22 or at least the narrow coint of the adequacy of
- 23 implementation of the Appendix 8 requirements through
- 24 the procedures and the QA Manual, given what the staff
- 25 is going to look at.

- 1 And we are certainly going to give all parties
- 2 including the county an opportunity to react after we
- 3 get the staff's report. And depending on what is agreed
- 4 or not agreed upon, that action can take a number of
- 5 different forms, and one of the forms it can take is
- 6 examination before us. And further details are that
- 7 examination before us can be cross examination or direct
- 8 testimony by the county or both. And it may be
- 9 efficient to encourage the county to give us direct
- 10 testimony on it; not necessarily as a substitute to
- 11 cross examination, but as a more efficient means of
- 12 seeing where the issues lie.
- 13 That's up to the county and it depends on the
- 14 extent of the disagreement at that time. But we are
- 15 certainly not going to say you've hard your chance and
- 16 then the subject matter changes and that's it. So, Mr.
- 17 Dynner didn't, I don't think, talk about substantive
- 18 matters as much as I am. I'm less interested in your
- 19 schedule than I am in making sure that you have due
- 20 process to deal with the substance. So to the extent
- 21 the two overlap, we'll accomodate.
- MR. DYNNER: I agree entirely, Judge Brenner.
- 23 My comment was directed more toward the hope that we
- 24 would have a response so that we can start to plan who
- 25 does what after the Thanksgiving break.

- 1 JUDGE BRENNER: Well, you're not going to get
- 2 the staff's report until December at the earliest, and
- 3 maybe even a little bit beyond. But you have to stay
- 4 plugged into what they're doing. They have to keep you
- 5 keyed in and you have responsibility affirmatively to
- 6 see what's happening, also. That's the situation you're
- 7 in-
- 8 Cur full expectation was to be in New York
- 9 starting in January. To the extent we thought there
- 10 might be a conflict with the emergency planning
- 11 depositions going on, so we will work out different
- 12 facilities. If that becomes a non-problem because of
- 13 various other factors, we won't have to take it into
- 14 account.
- 15 We have been here this month by the agreement
- 16 of all parties, and in fact, we have been here by the
- 17 agreement of the county with the proviso that we were
- 18 going to certainly go back for emergency planning
- 19 matters, a proviso that we always agreed with. I note
- 20 that because it is inconsistent with filing I have seen
- 21 from the county.
- 22 So you might clue your client in as to what
- 23 the facts are as to our schedule here, Mr. Lampher,
- 24 because that was inaccurate. It's a minor point.
- 25 You know, if it means carting off hundreds of

- 1 pounds of things for two days or three days, we might
- 2 want to adjust that if all parties want to. But we will
- 3 be flexible and leave it up to the parties. Did you
- 4 want to say something?
- 5 MR. LANFHER: Judge Brenner, I thought earlier
- 6 you wanted an ICC status report. As I understand the
- 7 situation, it is as follows. There were meetings on the
- 8 11th and 18th of this month, and pursuant to those
- 9 meetings, they have another meeting scheduled with all
- 10 the participants on SC Contention 3 for this Tuesday in
- 11 Long Island. So, the meetings are continuing.
- 12 Before we describe the issue as breaking into
- 13 two parts, the adequacy of existing order level
- 14 measurement and number two, the diversity of that
- 15 measurement system, it seems as if the first issue,
- 16 there is a reasonable possibility that there may be some
- 17 resolution of that, and Mr. Irwin is going to be
- 18 submitting some proposed language on that on Monday
- 19 which is going to be discussed on Tuesday.
- 20 There will also be discussions on Tuesday
- 21 related to the diversity issue, and whether acceptance
- 22 criteria can be developed. There seems to be a less
- 23 likely possibility of resolving that issue absent
- 24 litigation.
- I can say that the county, if there is no

- resolution, will be submitting supplemental testimony on
- 2. December 7th on that issue.
- 3 MR. REVELEY: We expect to settle the first
- 4 issue and not to settle the second.
- 5 JUDGE BRENNER: And are the other parties
- 6 prepared to file any necessary modifications in
- 7 testimony on December 7th, as the county indicated it
- 8 would?
- 9 MR. LANPHER: I might indicate my experts
- 10 aren't happy with that date. They say it's extremely
- 11 tight, but they think they can make it.
- JUDGE BRENNER: Well, we discussed previously
- 13 what the problems then were, and they are even more
- 14 exident now.
- 15 MR. LANPHER: I understand. That's why I
- 16 wasn't asking for a change.
- 17 JUDGE BRENNER: All right. We are going to
- 18 discuss a number of miscellaneous matters on November
- 19 30th, as we've already discussed. Let's come back on
- 20 this point, but parties are to be prepared to file
- 21 testimony on December 7th. So if we say that on
- 22 November 30th, it won't be a surprise. If we have any
- 23 flexibility when we look at the situation -- well, we
- 24 won't know anything different on November 30th than we
- 23 know now in terms of how long things are, so we'd better

- set it for that date because we need to have follow-up
- 2 motions and so on.
- And depending on how things proceed, we could
- 4 start with inadequate core cooling in December. I don't
- 5 know and neither does anybody else, but we could.
- 6 (Board conferring.)
- JUDGE BRENNER: I want to tell you now, since
- 8 you are worried about our arrangements, that we will
- 9 have a hearing on that Monday, December 20th. However,
- 10 we will not have a hearing on that Thursday, the 23rd.
- 11 So it will be a shorter hearing week, but it will be --
- 12 we are planning on a full three days unless there is a
- 13 strong reason not to, so make your arrangements. By
- 14 doing this we gain a half a day at least over what we
- 15 would have had, had we started on Tuesday, and we think
- 16 it is worthwhile to try to do that.
- 17 All right. I think we understand the
- 18 sequence. The remote shutdown panel members will be
- 19 coming, also. Testimony is going to be filed.
- 20 MR. REVELEY: On the 2nd.
- 21 JUDGE BRENNER: Yes, on the 2nd. We will have
- 22 to set due dates for motions to strike and answers after
- 23 that. We can talk about it as we get close. Presumably
- 24 it will follow a typical pattern of a week for the
- 25 motions to strike and then a week thereafter for the

answers. 2 MR. REVELEY: We still hope to settle that 3 one, Judge. JUDGE BRENNER: I know. I didn't want to 5 preclude that, but just in case, I wanted you to think 6 about the dates and the schedule. Everyone was 7 reasonably optimistic on all or a significant part of that one last time, but I can't judge anymore. 9 All right, that's all we have. Hearing 10 nothing else from the parties, we will adjourn until 11 Tuesday at 10:30 in Hauppauge, and for those of you who 12 we won't see, have a nice Thanksgiving. 13 (Whereupon, at 1:05 p.m., the hearing in the above-entitled matter was recessed, to reconvene at 14 10:30 a.m. on Tuesday, November 22, 1982.) 15 16 17 18 19 20 21 22 23 24 25

## NUCLEAR REGULATORY COMMISSION

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f the matter	ATOMIC SAFETY AND LICENSING BOARD  of: Long Island Lighting Company (Shoreham Nuclear Por Station)  Date of Freceding: November 19, 1982
	Docket Number: 50-322-0L
	Flace of Proceeding: Bethesda, Maryland
	erein appears, and that this is the original transie file of the Commission.  Susan A. Harris
	Official Reporter (Typed)
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