ORIGINAL

UNITED STATES NUCLEAR REGULATORY COMMISSION

In the matter of:

LONG ISLAND LIGHTING COMPANY
(SHOREHAM NUCLEAR POWER STATION,
UNIT 1)

Docket Number 50-322-OL-3

Pages: 1 through 98

Place: Bethesda, Maryland

Date: September 14, 1988

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8809190006 880914 PDR ADDCK 05000322 T PDR UNITED STATES NUCLEAR REGULATORY COMMISSION
ATOMIC SAFETY AND LICENSING APPEAL BOARD

> Wednesday, September 14, 1988

Public Hearing Room 4350 East West Highway Bethesda, Maryland

The above-entitled matter came on for hearing, pursuant to notice, at 2:00 p.m.

BEFORE: HONORABLE THOMAS S. MOORE, ALJ
Atomic Safety and Licensing Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C.

HONORABLE ALAN S. ROSENTHAL, ALJ Atomic Safety and Licensing Board Panel U.S. Nuclear Regulatory Commission Washington, D.C.

HONORABLE HOWARD A. WILBER, ALJ Atomic Safety and Licensing Board Panel U.S. Nuclear Regulatory Commission Washington, D.C.

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STATE OF NEW YORK):

RICHARD J. ZAHNLEUTER, ESQ. Deputy Special Counsel to the Governor Executive Chamber, Room 229 Albany, New York 12224

PROCEEDINGS

JUDGE MOORE: The Appeal Board is hearing argument this afternoon in the case of LILCO v. Town of Southampton from the Licensing Board's May 9, 1988 partial initial decision concerning the suitability of LILCO's reception centers that will be used by the public in the event of a radiological emergency.

The argument will be governed by the terms of our previous order of August 12th. As stated therein each party or each side rather, will be allowed forty minutes for argument.

We'll begin by having Counsel introduce themselves for the reporter. We'll start with the Staff.

MR. BACHMANN: My name is Richard G. Bachmann.

I'm Counsel to NRC Staff. With me at the table if Mr. Edwin

J. Reis also of the Staff.

MR. CHRISTMAN: My name is Jim Christman. I'm representing the applicant, Long Island Lighting Company. Also at the table with me is Mary Joe Leugers, also of my law firm.

MR. CASE: I'm David Case. The law firm of Kirkpatrick & Lockhart, representing Suffolk County and arguing on behalf of the Government. Also representing Suffolk County is Mr. Chris McMurray of Kirkpatrick & Lockhart.

MR. ZAHNLEUTER: I'm Richard J. Zahnleuter. I represent the State of New York and Governor Cromwell. And Mr. Case will be presenting oral argument on behalf of the State of New York today.

JUDGE MURRAY: The appellants may begin.

MR. CASE: Thank you.

Initially, let me indicate that I'd like to reserve twelve minutes for rebuttal of the forty minutes allotted to the Government.

The Government's brief outlines four issues to be decided by the Board. It is my intention to focus on two of those issues; 1) the Board's planning basis decision and how that is in error and 2) how the Board erred in entering findings without any FEMA findings being in the record.

Prior to reaching those two critical issues before the Board, there is one issue on one factor which overrides the consideration of even those two issues and that is, the recent decision in the case of <u>Town of Hempstead v. LILCO</u>.

Now the holding of this case is that Belmore facility uses a reception center on the LILCO's plant is a facility which, when used as a reception center, violates the local zoning law. The effect of that decision is to prohibit the use of the Belmore facility in the LILCO plant as a reception center.

I intend to briefly discuss here why it is that

the Board should consider this decision now, in making it's review of the OL3 reception center decision and why that New York Supreme Court decision is dispositive of this case.

Now, there's no need has been implied to reopen the record in this case in regard to that decision. In an appellate tribunal, like this tribunal is, must apply them all that exists at the time it reviews the lower tribunal's decision. And the law which presently exists at this time, is that decision of the New York State Supreme Court that in fact, LILCO's use of the Belmore facility as a facility center violates the local zoning laws.

JUDGE ROSENTHAL: Mr. Case, two questions. Number one, has the Court entered an order on it's decision yet?

MR. CASE: The Court has not, Mr. Rosenthal.

However, we believe that the effect of the opinion is clear and indeed the proposed order that LILCO submitted -- right now, there order's been submitted by the Town of Hempstead and LILCO and submitted it's own proposed order. The order which LILCO submitted in fact, indicates that the use of Belmore facility as a reception center is prohibited.

So, at a the very minimum, that order will be entered.

JUDGE ROSENTHAL: All right, second question. Am

I correct in my understanding that there is no pending

litigation respecting the availability of either of the

other two reception centers?

MR. CASE: That is correct. The record indicates and the partial initial decision indicates outstanding two determinations by the other effected localities that there's a violation of zoning law, but there's been no suit filed as of today.

As I indicated, we don't believe that there's any need for any motion to reopen the record. This Board must give that case full faith and credit and need present no evidence as to the decision because it's a recorded decision.

The Board must consider the case of <u>Town of</u>

Hempstead v. LILCO just as it would consider the case of

Marbury v. Madison or <u>Brown v. Board of Education</u>. It's

applicable in this proceeding without any motion to reopen

and we believe the clear effect of this decision is to

require that the Board reverse -- remand the reception

center pleading.

JUDGE ROSENTHAL: What is the capacity of the other two reception centers collective; for monitoring purposes?

MR. CASE: We believe that the record would indicate, and opposing Counsel have argued, that the capacity of those two receptions centers would handle a thirty percent evaluation.

However, it's the Government's position that that's simply not determinative. What we have here Mr. Rosenthal and other members of the Board, a reception center plan integrated between three reception centers, was in fact, submitted by LILCO; the parties litigated concerned those three reception centers, and the Board decided on the three reception center plan as integrated. JUDGE ROSENTHAL: Well, even if it cited on that basis, the Board also determined, did it not, that twenty percent was a reasonable figure for the planning estimate

and if that finding is upheld, I realize that the Government is challenging it --

MR. CASE: That's correct.

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JUDGE ROSENTHAL: -- if that finding is upheld, would it not necessarily follow that the elimination of the Belmore facility would be in the vernacular and no never mind.

In other words, doesn't the significance of the elimination of Belmore hinge entirely upon the viability of the Licensing Board's determination on the twenty percent planning estimate?

MR. CASE: We don't believe it does.

JUDGE ROSENTHAL: All right, well explain why not?

MR. CASE: I'd be glad to.

What's happened is there's a void in the record;

where there was a three reception center plan, there's now two. There's a group of people, roughly one-third, who have no where to go. Where LILCO determines to send them when they fill this void in the record; whether it be to split them up between the other two reception centers; whether it be send them to some third facility that we have information about, we don't know.

So, even assuming and this is all speculation, that LILCO does in fact, decided to split it this cutstanding group of evacuees and send them to the other two reception centers, we don't know how that will impact traffic. We don't know how that will impact the capacity and facilities.

For instance, if many are sent to Roslyn, a small facility, it may be and this is LILCO's burden here to show, that they can still meet the reasonable assurance findings.

So, even assuming and we wouldn't concede for a minute that in fact a twenty percent decision is accurate, even in that situation, we have a void in the record here. We need to understand how LILCO intends to fill that void in terms of where these people are going to go; how that will impact traffic, how that will impact whether the reception centers they're sent to, and it may not be those two, how they can handle those individuals.

JUDGE ROSENTHAL: So, you are suggesting that if

the twenty percent figure were to be upheld and again, I appreciate the fact that the Government's attached that, necessarily there would have to be a remand to the Licensing Board to determine what impact upon traffic, etc. would flow from the availability of the two instead of as previously, the three reception centers.

Is that -- that's what you're saying?

MR. CASE: That's exactly right. There's a void now. The Licensing Board must consider what's going to happen to this one-third of the potential evacuees, where they're going, what the effects of that will be in terms of traffic, in terms of capacity at the reception centers. There's a whole host of issues that may be considered depending on what LILCO does in their planning with these group of individuals who at present, have nowhere to go for a reception center.

JUDGE ROSENTHAL: Turning if we might to the twenty percent figure, I'm interested in knowing whether the Governments accept the prior estimate that there would be approximately twenty percent of the population that would require shelter?

If I recall correctly, there was -- previously there was that estimate which I think had the American Red Cross's endorsement. Am I right about that?

MR. CASE: In terms of pure sheltering --

1	JUDGE ROSENTHAL: Yes, I'm talking about pure
2	sheltering that well, obviously the people that would
3	obtain sheltering would also be monitored and if necessary,
4	supposedly contaminated.
5	MR. CASE: I understand.
6	JUDGE ROSENTHAL: And if you accept that I want
7	to know if you accept that twenty percent figure?
8	MR. CASE: I understand. I will say that the
9	Government believes that twenty percent was a sheltering
10	number. Seemed to have historical backing that is adequate,
11	but to use that in any sense as a basis for any sort of
12	decision as the number of people who arrive for monitoring,
13	the Government's opinion and we believe this Board
14	previously held, is simply mixing apples with oranges.
15	It's attempting to figure out how many oranges are
16	going to grow by counting how many applies that were in past
17	seasons.
18	JUDGE WILBER: The minimum would be the twenty
19	percent though. You're not arguing that, are you?
20	MR. CASE: Oh, the minimum would be twenty
21	percent. That would be the Government's position.
22	JUDGE WILBER: So, they aren't really apples and
23	oranges?
24	MR. CASE: There may be some overlap and in terms
25	of comparing trying to forget the number of monitoring

based on the number of shelters. In that sense, you're comparing apples with oranges, but yes, there may be some overlap in terms of people who go for sheltering also require monitoring and would in fact, monitor.

But, we would argue that twenty percent would be the minimum number that would have to be accounted for in considering the number who would come to the Reception Centers.

JUDGE ROSENTHAL: I have one other preliminary question. I'm going to ask this also of Mr. Christman.

In the applicant's brief at page 12, footnote 3 refers to a LILCO commitment to more than double the twenty percent planning basis to some 46.6 percent.

Now, I've been unable to find in the record where that commitment is. It seems to me a very significant one, if in fact, it was made.

It is your understanding that there was that kind of commitment prior to the applicant and if so, why are we talking about a twenty percent planning standard anyway, or estimate?

MR. CASE: Well, I didn't understand that to be a commitment except in, there's testimony in the record and there was testimony concerning the ability of LILCO to expand by calling on other resources over time to bring in INPO monitors, to bring in people from Brookhaven and set up

more monitoring facilities, which they argued reach a 1 greater percentage of the people who arrive there. 2 3 But, the reason we're talking about twenty percent is, from the beginning, that has been the number that has 4 been the focus of this litigation because LILCO has relied 5 on that. FEMA advocated that through the Krimm memorandum. 6 7 The Staff advocated it and the Board accepted twenty percent, so that's why the focus --8 JUDGE ROSENTHAL: No, I understand that. I don't 9 10 to be making a newer argument for you --11 MR. CASE: Right. 12 JUDGE ROSENTHAL: -- but I would have thought that if LILCO itself represents, that is has committed itself to 13 46.6 percent planning pasis, that you'd be in telling us 14 that the Belmore facility's elimination is extraordinarily 15

MR. CASE: It's the position -- the intervenors and I always appreciate any help in argument --

estimate to begin with.

significant and that we're past the twenty percent planning

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JUDGE ROSENTHAL: I saw this. I assume you read that same footnote and I was just wandering what your reaction was.

MR. CASE: It's the position of the Intervenor's and Government's that, no matter was the planning basis is, be it twenty percent, thirty percent, forty percent, the

the public, serve the evacuees as been eliminated as a possibility. We don't know what's going to happen to the people who would have gone there. Where they're going to go. How they're going to get there. No matter what the planning basin is, there's a void in the record and this has to be remanded for the Licensing Board to take evidence.

JUDGE ROSENTHAL: Well, now with respect to the three facilities that were in the picture when the Licensing Board rendered it's decision, the Licensing Board really have precise information as to who would go to Belmore and who would go the second facility and who would go the third one. I mean you talk as if this was all really determined with the three facilities and now it's all up in the air as to traffic patterns and who goes where, since there and only two facilities.

MR. CASE: Yes, sir. As part of the LILCO; an, it's divided up into zones and certain zones would be directed to report to certain reception centers and in fact, by eliminating one of the reception centers, you have to know what's going to happen to the people in these zones that were otherwise going to Belmore.

That's what we can only speculate about until there's a plan submitted, which addresses that issue. What we're talking about in front of this Board are a two

reception center facility, is simply not the facility that was litigated in front of the Licensing Board in this can which was a three reception center plan and that's why we believe that no matter what the planning basis is, this case must be remanded.

JUDGE WILBER: Does this mean that you say certain sectors were assigned to Belmore and sectors assigned to the other reception centers, then in the event of an accident that encompassed only some of those sectors, they would only activate one of these centers. Is this what you're saying?

MR. CASE: I don't think that question ever came up in examination on the plan. The way the plan was set up was that --

JUDGE WILBER: But, you're telling me, Sectors A, B, and C are assigned to Belmore and --

MR. CASE: It's conceivable that they would direct certain people from certain sectors. If you add to the impact in only one sector, that slice of the sector would be directed simply to go to Hicksville or go to Belmore or go Roslyn, depending -- obviously depending --

JUDGE WILBER: Can you tell me where that is in the record?

MR. CASE: I don't know whether that is in the record. I don't think we ever addressed that question. If

there was an accident which only gave a certain slice of the EPZ; whether people would be directed to certain reception centers.

As the plan stands now, the population is divided into the reception centers, and the traffic patterns if you analyze, given that certain people from certain parts of the EPZ will go to certain facilities.

JUDGE ROSENTHAL: Turning to the liability of the twenty percent estimate, that does derived some support does it not, from the Krimm memorandum?

MR. CASE: Well, we don't believe that the Krimm memorandum provides any support for that.

JUDGE ROSENTHAL: Essentially, the Krimm memorandum was based on sheltering data. The FEMA testimony was to that effect and the Board acknowledged that.

In it's opinion, the Board said, we racognize that this is based on sheltering data, however we believe it's -- given the best judgment of the professionals, it's all right. It can form the basis for a defensible finding here.

JUDGE ROSENTHAL: Aren't FFMA the experts in this area? Shouldn't there be considerable deference given to it's conclusions as to given a particular emergency; how many people are likely to seek sheltering or monitoring?

MR. CASE: We don't believe there should be deferent given to FEMA when their conclusions are based on

1	data that this Board previously found was simply not
2	relevant to the question and the fac 'at FEMA took
3	irrelevant data and then in some, unknown way, we have no
4	idea of the rigor of how they did it the seat of the
5	pants, a fudge factor adjustment here it took a twenty
6	percent basis and fudged it up to thirty percent.
7	That gives no indication there's no rigor to
8	that as to why in the world that would in any way, be a
9	valid indication of the number of people who would show up
10	for monitoring?
11	JUDGE ROSENTHAL: Did Krimm testify?
12	MR. CASE: Mr. Krimm did not testify. One of the
13	points we made in our proposed findings of fact, was that
14	Mr. Krimm did not testify. No one who was involved directly
15	in the preparation of the Krimm memorandum, did testify.
16	No one who was involved directly in the
17	preparation of the planning standard, J-12 testified.
18	JUDGE ROSENTHAL: Now, the Krimm memorandum was
19	introduced into evidence?
20	MR. CASE: Yes sir.
21	JUDGE ROSENTHAL: And was there any endeavor mad-
22	by the Government's to assist that he be brought into Court
23	so to speak, and subjected to cross-examination on these

MR. CASE: The Government's did not attempt to

conclusions that he set forth in his memorandum.

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subpoena Mr. Grimm or we feel there's an adverse inference to the other side that should be drawn in this case; that they did not call him, the proponent here. Certainly within the powers of FEMT to bring him before the Court and testify. This was not done.

Additionally, in our estimation no plan -- whether Mr. Krimm was up there or not, it simply can't or the number can't be defined. It's based on sheltering data.

The Board recognized that. Everyone's recognized that, and sheltering data as this Board and the Licensing Board previously indicates, simply is --

JUDGE ROSENTHAL: Well, I think the response to that was that at the time of our prior decision, we didn't have before us the factual record, including the FEMA and Staff testimony that has now been complied.

Moreover, since the applicant -- we didn't have before us the Staff and FEMA's explanation that the twenty percent number. In other words, the arguments being advanced that the situation at this juncture is quite different from that when this Board last spoke.

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MR. CASE: I think, in fact, what is the truth is, the Board had the exact same kind of evidence before when it spoke previously as it is here now. I quote from the ALAB 855 Decision. The 32,000 figure, which was 20 percent, which was what they advocated at the last hearing before this Board concerning planning basis, was premised on a study that showed that roughly 10 to 20 percent of any population requires sheltering in the event of a disaster.

And that's exactly what the Krimm memorandum is based on, is the number of people who require sheltering in the disaster. The evidence is the same before the Board. The Krimm memorandum, based on the same evidence, this Board previously rejected, is not speaking to the question of how many will show up for monitoring.

There is simply no logical nexus between sheltering, historical sheltering data, and a calculation of who will show up for monitoring at the three reception sites.

in reference to the applicant's position in the hearing below the remand hearing.

In your brief you used the figure 30 percent as being the figure the applicant uses -- started out, that hearing with. Is that an error in your brief?

MR. CASE: No, the Krimm memorandum is 20 percent.

LILCO has indicated they have met and planned the monitor, or able to monitor 30 percent of the EPZ, and therefore, satisfy any sort of planning base criterion because they've taken the 20 percent from the Krimm memorandum, and added the ten percent -- or added 50 percent.

JUDGE MOORE: But capability is different from the hottom line figure they contend is the requirement, which is 20 percent.

MR. CASE: Adequate. Exactly.

JUDGE MOORE: So that's not saying that the applicant is contending the requirement is 30 percent?

MR. CASE: Well, the issue is, what is a proper planning basis? What should intervenor -- what should the applicant -- how many people should they expect to show up at the reception centers; and sometimes capacity and a planning basis get confused, but the applicants as we understand it always advocated the Krimm memorandum as being the accurate statement of a proper plan basis, which was 20 percent.

DIDGE MOORE: Did the applicant ever attempt to explain why in 1984 its witnesses testified that sheltering and sheltering alone the number was 20 percent, and how it can adopt the position in the hearing below that the Krimm memorandum for shelter and plus monitoring was 20 percent?

MR. CASE: Our point has been all along that the

planning basis simply is inadequate; that there's no showing here, and we have made the arguments many times in front of the licensing board both in oral argument and in our findings that the way the planning basis is calculated in this case is simply inadequate. It's based on sheltering data. That's the bedrock of the planning basis that --

JUDGE ROSENTHAL: How do you go about coming up with an informed estimate of the number of people who require monitoring? I suppose that the figure is somewhere between 1 and the total number of people that are in the EPZ at the time of the accident.

Now, this is an estimate. Clearly, unless the resort is to a ouija board, there must be some mechanism for making this kind of judgment.

Now, let's say that you don't use the sheltering estimate, and maybe that's right. But what do you use?

MR. CASE: Well, let me start out by indicating one thing: the key question is not necessarily how many people will require monitoring -- the key question is how many people must you plan for to arrive at the reception centers?

Keeping that in mind, of course, it's always fun to criticize and never come up with your own ideas, but we always enjoy putting the burden where it belongs, on LILCO.

But, if pressed, I would indicate the way you

would start -- and this would only be the initial step -- would be to start out with an analysis similar to which was done by Mr. Hulman of the staff here, to attempt to find out in an accident how many people with footprint analysis would require monitoring? That's the first step.

Now, we obviously made criticism of the way Mr. Hulman proceeded in terms of his analysis not taking in to account certain factors; not being conservative enough; but in an analysis like that would be the start -- on top of the number of people who would require monitoring you would have to make an analysis of the number of people both within and without the EPZ who you would expect would arrive for monitoring at the reception centers if there was a director to go for monitoring. And that would have to be added on top of --

JUDGE ROSENTHAL: You're differentiating between the people who actually need it and the people who would turn up? I don't quite --

MR. CASE: Yes sir.

JUDGE WILBER: -- is this the shadow effect you're talking about?

MR. CASE: It's a monitoring shadow effect. We believe that you have to account for that and you have to account for it -- and it has rigor as a possible fact.

JUDGE WILBER: Could you tell me the fundamental

difference between a "monitoring shadow effect" and the "evacuation shadowing effect?" Don't they both rely on fear or lack of information?

MR. CASE: Well, fear and, yes, either confusing or lag. The motives are the same. They flow from the same sources, but obviously the phenomena are 'ne same. If you were in an evacuation and no moritoring -- there's going to be no monitoring shadow, but monitoring shadow arises only if there's an order for monitoring for people who report for monitoring.

JUDGE WILBER: I understand, but the underlying monitoring --

MR. CASE: Yes, I mean, all parties have agreed, I think, in this respect; they flow from the same basic psychological needs and urges.

JUDGE ROSENTHAL: Well now, how do you estimate this?

MR. CASE: Well, it would be difficult, but we believe that there's a science -- in the sociological literature there should be a way and would be a way, to do it. People in this city in particular many places devote their careers and bet their careers on public behavior in the future: who will vote; what will they vote for. Things like that.

Lawyers bet cases on sociological analyses of how

certain jurors will react to certain situations in the future.

JUDGE ROSENTHAL: Didn't Mr. Krimm do that in this case? You're dissatisfied with his result and perhaps with his methodology, but wasn't that basically what he was doing, and why isn't his guess as good as anybody else's?

So I would say that this is more than simply an imprecise science. I would say it's no science at all.

MR. CASE: Whether it's imprecise or no science, is what Mr. Krimm did was not what I just described; who made the regular analysis of the number of people who would require monitoring; and add on to that the number of people who would require monitoring and add onto that the number of people who would go for monitoring, both from within and without the EPZ.

Basically, he'd talk a data base sheltering data, which is bordered only rejected and put a fudge factor or it. And there's no basis for that. We see no studies; we see no rationale, for why he did it, and the FEMA witnesses candidly describe it as a "fudge factor." It's 30 percent.

JUDGE ROSENTHAL: Did you have witnesses of your own who came in and said in effect that Krimm is out to lunch; that this is not the way in which one can arrive at a reasonable estimate of people who would turn up for monitoring?

MR. CASE: Yes sir. The State of New York's witnesses actually were the first in this to take issue with the Krimm Memorandum, in the sense that these were New York emergency planners from the Radiological Preparedness Group who indicated in their professional judgment you should plan for 100 percent of the EPZ as a prudential matter, and took direct issue with what was at issue in the Krimm memorandum.

JUDGE ROSENTHAL: And that 100 percent isn't an estimate. It's just a personal view as to what should be done presumably out of an abundance of caution. But I'm getting at whether there were witnesses in the matter of what is a reasonable estimate as to the number of people that are going to turn up for monitoring -- because obviously 100 percent or not -- I imagine you would agree on that. It would be agreeable.

MR. CASE: Right. But what is the proper planning basis and the REPG people indicated proper planning basis was 100 percent. There were also witnesses put on by Suffolk County who attempted to describe the magnitude of the monitoring shadow based on focus groups and obviously based on the results of surveys. Now, this was rejected by the Board, but we believe that analyses like that have to go into the question of how much -- how many people -- do you plan for to show up at the reception centers?

Let me -- my time is almost up -- if not up. Just

briefly conclude. We view that finding on the 20 percent planning basis is erroneous for the reasons we've talked about right here. In addition, it applied to the wrong standard: it applied to a defensibility standard, not a preponderance of the evidence standard. They're different under the taw. And it's not a mere matter of semantic quibbling.

We also believe that, in fact, there are no FEMA findings; no testimony, that can be construed as FEMA findings; and that to enter in this case findings without any FEMA review of this matter was simply an error under the Commission's clear regulations.

MR. CHRISTMAN: Judge Moore, Members of the Board.

I am Jim Christman. We split the time up with the staff and

I get 25 minutes; the staff gets the rest, as I understand

it.

Let me talk first about something that's not before you, which is the <u>Belmore</u> litigation up on Long Island not properly raised by the appeal and no one has filed a motion to reopen the record.

JUDGE ROSENTHAL: You're not contending that a motion to reopen is necessary in this situation, are you?

MR. CHRISTMAN: Yes, I believe it is.

JUDGE ROSENTHAL: Why?

MR. CHRISTMAN: Let me tell you several reasons:

Heritage Reporting Corporation (202) 628-4888 number one, the litigation is still ongoing and those facilities are still there. You get something like the Seabrook case where there was a court order saying that certain sirens were illegal. The contention was not admitted in that case because it lacked immediate safety impact.

We don't have an order telling us exactly what the Court's mandate is going to be.

JUDGE ROSENTHAL: The determination of the Supreme Court of the State of New York, which unless and until it is reversed by the Appellate Division of the Court of Appeals, seems to me, at least, that we have to recognize to the effect that certain necessary appurtenances, if one may put it that way, cannot be employed without obtaining a permit or a license, which up at this point has not been so.

Now, for the life of me I can't understand why we are not obligated -- not merely entitled, but obligated to recognize that judicial decision without any kind of motion to reopen that's before us.

MR. CHRISTMAN: Let me state the obvious, which is, if the Hicksville facility will service 24 percent of the Roslyn facility will service 12 percent of the EPZ, and that makes 36 percent, that meets with those two facilities alone, only LILCO's self-appointed trigger point of 30 percent, but the requirement, which is 20 percent.

JUDGE MOORE: Where did the licensing board find that one of the facilities that was in existence when the Board ruled it was unnecessary and could be discarded?

MR. CHRISTMAN: Well, the Board didn't find that

one of the facilities was unnecessary.

JUDGE MOORE: Now at a minimum, doesn't it have to go back so that the Board can base its decision on the facts as they stand?

MR. CHRISTMAN: This wasn't -- obviously, this wasn't an issue, but the issue was what capacity LILCO has to supply for to monitor the public? And the decision was 20 percent. We still meet that standard.

JUDGE ROSENTHAL: Now, is that to say about Mr.

Case's argument that there still is the matter of different traffic patterns, et cetera, when there are two rather than three, facilities in use?

MR. CHRISTMAN: I don't want to imply that we are conceding that the Belmore facility can never be used.

Because what I didn't get to say was that there are several things before we ever get to that point, which is simply asking the authorities for permission to use it in an emergency. Because fortunately the New York legislators have been foresightful enough to provide that both the governor and local executives can override local and state laws that interfere or hinder an emergency response. Let's

1	not forget that.
2	We have to ask ourselves what would happen in a
3	real emergency.
4	JUDGE MOORE: All right, let's ask ourselves what
5	would happen in a real emergency if the injunction and I
6	understand that an injunction was sought and you're
7	ordered to remove the trailer and the connection, which is
3	what's really at issue, is it not?
9	MR. CHRISTMAN: Yes.
10	JUDGE MOORE: And that's gone the governor and
11	the legislators can cry "emergency" until they're blue in
12	the face and it doesn't put a trailer there, does it?
13	MR. CHRISTMAN: See, that's why we really
14	shouldn't be arguing about that. We really don't know the
15	connections. What we know is according to that Judge's
16	decision, the use of that facility, as I understand it, as a
17	reception center in a radiological emergency would violate
18	the zoning laws it's not zoned for a radiological
19	emergency.
20	But we don't know how far that goes. And I'll
21	remind you, too, that those trailers are mobile.
22	JUDGE ROSENTHAL: When is the judge likely to
23	enter her order?
24	MR. CHRISTMAN: I don't know. They had not done

it as of this morning, but I cannot predict when she might

25

rule. I would imagine it would be promptly, but I don't really know. As Mr. Case said, both parties have submitted their counter orders.

See, the order makes a difference. There are a number of things that might be done to still render that bill more facility-useful; usable. One is to apply for a special use permit. There are the possibilities of appeals; there is the possibility of stays; there's the possibility of asking for permission in the --

JUDGE ROSENTHAL: That would be denied, wouldn't it?

MR. CHRISTMAN: Well, if you look at the <u>Seabrook</u> case where they said that the sirens are illegal; I mean you had a worse case there. Here we don't have the Board's order or the Court's order. We don't know exactly how far it will reach; but we do know that the facilities are still there. It doesn't have an immediate safety impact.

Particularly since we still -- I'm sorry?

JUDGE ROSENTHAL: And presumably the judge is going to enter an order within a reasonable period of time; at that point at least the uncertainty as to what the order provides will be removed. I recognize that there's possibilities of appeal; there's a possibility of an override; there's a possibility of applying for and obtaining the necessary permits.

But what I don't understand still is why at this juncture we're not compelled to take the case as it stands with that Judge's opinion without the intervention of a motion to reopen?

MR. CHRISTMAN: Let's assume then that the Court has -- you have an order and that this violates the zoning law and that you are enjoined from using it as a reception center without further approval, which is roughly what LILCO's proposed order says.

Well, as I say, there's no -- we needn't change the plan in that case because we simply go to the authorities at the time and say "can we please use that; people are needful?" And I'm confident that that permission would be granted.

That's the reality. You're into realism now, as you recognize, and we always end up there; but that's simply one possibility depending upon how that judge rules.

The reason you don't have to take that is because of the <u>Seabrook</u> precedent, and because we still meet 20 percent guidance with the other two facilities.

Now, you want me to get to the other question you ask; you know, don't these people have to be told in advance? The answer to the question is, "of course."

They're designated for certain reception centers, in this case sectors K and N, to the west and the south are

designated for the Belmore facility, because you have to tell people in advance where they're to go.

And we open up all three facilities even if K and N aren't necessarily effected by the plume just because that's the practice.

Now, your question isn't this going to foul everything up? Not at all. I mean, those folks from K and N, sections K and N, who are heading for the Belmore facility -- go out west on Sunrise Highway and the Southern State Parkway.

But instead of going to -- assuming now, unrealistically, Belmore is wiped from the face of the earth, they simply instead of making -- they go out the same roads and instead of making a left on the Wantaugh Parkway, they make a right on the Wantaugh Parkway, right on Old Country Road, to the Hicksville facility, which has 24 percent of the EPZ, which is more than the Krimm memorandum guidelines.

JUDGE ROSENTHAL: Where did that number come from?
MR. CHRISTMAN: Which one?

JUDGE ROSENTHAL: Hickman -- you say 24 percent?

MR. CHRISTMAN: You simply have to calculate the number of monitors --

JUDGE ROSENTHAL: But I thought you said you had 30 percent of which Hickman could handle 50 percent -- I can

1	calculate that out to be 15.
2	MR. CHRISTMAN: No, if I said that, I shouldn't
3	have. The figures are roughly the following: Hicksville
4	will handle about 24 percent; Roslyn will handle
5	JUDGE ROSENTHAL: Of the EPZ?
6	MR. CHRISTMAN: Of the EPZ, yes.
7	JUDGE ROSENTHAL: But your total program will
8	handle 30 percent, is that correct?
9	MR. CHRISTMAN: Well no. We have the capacity for
10	46 it all adds up to 46.6 percent.
11	JUDGE ROSENTHAL: Forty-six percent is relying on
12	your back up people?
13	MR. CHRISTMAN: No, not at all. We're calling
14	that 150 the numbers I'm talking about are 100 percent
15	staffing. We call that 150 percent of that. That's greater
16	and we don't count it.
17	JUDGE ROSENTHAL: Now, do you have a commitment to
18	46 percent?
19	MR. CHRISTMAN: No. Let's get the commitment
20	because I'm going to be upset if you were to say that the
21	legal requirement is 46.6 percent, because that's what my
22	client provides. The legal requirement, we think, is 20
23	percent.
24	Now, let me explain the 20, the 30, and the 46.6.
25	Twenty percent is the federal guidance. LILCO relies on

that and has always and the record supports 20 percent and that's what the Board found and that's what we think is going to be involved.

JUDGE ROSENTHAL: Well get into for a moment whether the record supports that.

MR. CHRISTMAN: You bet. LILCO -- the 30 percent comes from the following two sources: in the first place, it's a trigger under the plan, since LILCO can do more than the federal guidance requires. They have simply said that if it is projected that more than 30 percent of the EPZ will be coming to the reception centers, then they would start to worry about overloading; they would then wall for help.

They go to the second layer, which is to call in INPO, which is Institute of Nuclear Power Operations, and the Department of Energy, which have huge resources, and the record shows can be there fairly promptly, particularly DOE from the Brookhaven Lab, of course.

But that's the trigger: the 30 percent is the trigger point under the plan.

And in addition, the traffic analysis in the interests of conservatism was done at 30 percent, because the analyst simply arbitrarily said, "Well, if 20 percent is the federal guidance, let's half-again that much; go up to 30; then we're really conservative."

And so if an analysis is for 30 percent and the

trigger point is 30 percent, what happens is that when you calculate the number of people who can actually be brought and processed through those three facilities, it turns out to be almost half the EPZ -- simply because my client has gone farther than it needs to.

But, "commitment" means commitment of resources as shown by the record. I should have said "commitment of resources," because what they have committed and trained their staff.

JUDGE ROSENTHAL: But I think no commitment to anybody in that sense.

MR. CHRISTMAN: Well, the plan calls for that. I suppose the answer to your question is that you would have to amend the plan if you were going to change those portions of the plan that call for a 30 percent trigger, but I would expect an amendment to the plan to be instantly granted as long as we submit that 20 percent standard.

JUDGE ROSENTHAL: Now, where do you have the 46.6 percent goal? That percent is going where?

MR. CHRISTMAN: I believe 50 percent of the EPZ is routed to -- it's in one of the attachments to our testimony, which is KLD -- report TR201A, I believe. Fifty percent are routed to Hicksville.

JUDGE ROSENTHAL: You mean Hicksville can accommodate 50 percent of the entire population of the EPZ?

I'm trying to get at what is the capacity of now I realize that you think all kinds of wonderful things could happen to Belmore, but for purposes of the present discussion, I would like to take Belmore out of the picture.

MR. CHRISTMAN: All right, take Belmore out of the picture.

JUDGE ROSENTHAL: You've got two reception centers. Now, I would like to know what is the capacity of each of those reception centers? In other words, what percentage of the --

MR. CHRISTMAN: All right now, we've talked -
JUDGE ROSENTHAL: -- with the populace in the EPZ,
can they handle them?

MR. CHRISTMAN: That's easy: Hicksville has the capacity to process 24 percent of the EPZ, and you just get that by simple calculation from TO201A, the traffic report -- 34 percent. Roslyn - 12 percent. That adds up to 36 percent. Belmore, obviously, 11 percent, which you will find adds up to 46 - 47 percent. And that's the total capacity using the monitors under the plan, so you see?

Roslyn and Belmore are about the same -- 11 and 12. Hicksville is much bigger and has 24 percent. In other words, Hicksville alone meets the 20 percent federal requirement. Hicksville, plus either of the other two, meet the 30 percent self-imposed trigger that LILCO has imposed.

1	JUDGE ROSENTHAL: Let's go on if we can to the
2	liability of that 20 percent planning estimate. Now my
3	impression and you can correct me if I'm wrong, that
4	LILCO itself had previously estimated the sheltering
5	requirement of 20 percent and that that estimate had the
6	andorsement of the American Red Cross, am I wrong about
7	that?
8	MR. CHRISTMAN: I don't know that the Red Cross
9	JUDGE ROSENTHAL: That was my impression.
10	MR. CHRISTMAN: The Red Cross testified hearing,
11	so that's right.
12	JUDGE ROSENTHAL: That's LILCO's own figure.
13	Now, I would say that it would be within the realm of
14	official notice that they're going to be people who do not
15	require and do not want, sheltering, who will turn up for
16	monitoring.
17	MR. CHRISTMAN: It's possible.
18	JUDGE ROSENTHAL: Now, what the percentage is, I
19	don't know. I mean, your guess and my guess might widely
20	vary. But to sum, now if the 20 r reent is a good baseline
21	figure for sheltering, it would seem to me to perforce
22	follow that the monitoring figure has to exceed that.
23	Now, we might again disagree by what percent, but
24	it would be by some percent.

25

Now, that being so, I would like you to tell me

what the justification for that 20 percent figure is?

MR. CHRISTMAN: Okay, I'll do that. I think your reasoning is correct. In the first place, the 20 percent figure for sheltering, which was true, was upheld, has a lot of fat in it, as you can see from the Krimm memorandum. The actual number of people universally, based on historical data base needing sheltering, is more liable -- may tail off at around 20 percent, but a more representative sample would be around three or five percent -- up to 15 percent.

But what the Krimm memorandum did was say -- and all of the competent experts from FEMA and the NRC staff and from LZLCO's witnesses who testified, said this is a matter of judgment. We don't have a historical pattern of radiological emergencies. It is sensible to establish a planning basis that is sufficient; that it can handle most accidents and be expanded in the worst case to cover even more. And that's what the 20 percent is.

And I will concede to you that there is a large measure of judgment which the County likes to call "fudge factor" or "gambling" or who knows what-all else, but professional judgment by FEMA, by the NRC staff, and by competent experts presented by LILCO that the 20 percent -- this is not a prediction of how many people are going to show up in a particular accident on a particular day. It's not that.

JUDGE ROSENTHAL: I gather Mr. Krimm did not testify, nor did anybody that might have been involved with him in the preparation of the Krimm memorandum, is that correct?

MR. CHRISTMAN: Well, as your question is, very narrowly yes. We had all kinds of testimony -- all kinds of testimony about the provenance (P-R-O-V-E-N-A-N-C-E) of that memorandum. We had Falk Kandor from the NRC staff come in and he talked to people who were on the steering committee who had worked in FEMA; they had day-to-day contact with FEMA and he had talked to all of these people, and he talked about the Krimm memorandum and how it came to be.

The witnesses from FEMA, particularly Mr. Keller, and others from the FEMA panel, cross-examined at great length about what they knew about the Krimm memorandum; how it had come to be; and who had -- a fellow named Mr. McNutt, I believe, had a hand in --

JUDGE WILBER: He was not a witness, is that correct?

MR. CHRISTMAN: They were not a witness, but experts commented -- experts from both agencies -- both FEMA and NRC, including -- well, let's not just take our indices.

JUDGE MOORE: Let's look at the Krimm memorandum for a minute. Is it a generic, 20 percent figure applicable to all plants; or is it site-specific?

MR. CHRISTMAN: No. We do have additional -- the only site-specific information -- but it's generic.

JUDGE MOORE: But if it's generic, how can you logically and sensibly, if you will, do that without any -- look at the demographics of an EPZ?

MR. CHRISTMAN: Two reasons, and both of them in the record: one, because as Mr. Kantor testified, because the concept since Three Mile Island of emergency planning is to make your protective actions on the basis of plant conditions, to get people out fast, the expectation is that you're not going to have anybody contaminated.

And the testimony is replete with references of fact that the monitoring is principally to determ any problem that may exist and to reassure the public.

In short, as our witnesses testified, ordinarily you would expect only the people who need ordinarily now, if you're predicting -- people who need shelter to show up; and to be monitored -- and no one would be advised to be monitored because they were contaminated because you'd get them out of there fast.

That's just the object of emergency planning and the whole goal since TMI. And that's important. That's a change from since the pre-TMI days.

The second reason is, because these witnesses came in from FEMA and the NRC staff and said we work with this

every day and we believe that you cannot predict the number of people who will show up in a real emergency; but we can predict -- because we are emergency planning experts -- what kind of a planning base we got to have to be able to hand -- and it's 20 percent -- which provides us with a substantial planning base that can be expanded in an emergency.

Let me explain that before you interrupt me -with two more pieces of testimony: Dr. Linnemann, who was
at the TMI response -- he was for the industry, not for the
government, but he was involved in the response to TMI -and he testified that it was important from his experience,
not that you have a lot of people lined up; but that you
have the infrastructure.

He said that the problem at TMI wasn't that they didn't have the monitors; it was they didn't have the plan; the organization; to use them. And that's the point of the 20 percent. You have a substantial planning base that covers, according to Mr. Eulman's testimony, and in his analysis, his PRA type analysis, almost all of the emergencies you would ever have, and for those few extremely, extremely bad ones, you can expand the plan.

And our procedures expressly say LILCO so-and-so is --

JUDGE MOORE: Has this question ever been litigated before

1	MR. CHRISTMAN: No, I think this is the first
2	time.
3	JUDGE MOORE: Why is the record silent on what 90
4	some plants prior to this proceeding did for a planning
5	base as far as a percentage in the number, prior to 1985,
6	when the Krimm memorandum was issued?
7	MR. CHRISTMAN: Why is our record silent
8	JUDGE MOORE: The only evidence in your record is
9	that nine mile points 36 percent, and that's 16 percent more
10	than 20 percent. And there's also mention that Trojan is
11	not 100 percent, leaving the implication that it's a hell of
12	a lot more than 20 percent in the context in which that
13	testimony was given.
14	MR. CHRISTMAN: There's a bit more evidence than
1.5	that. There are New York plants suggesting
16	JUDGE MOORE: But none meet 100 percent.
17	MR. CHRISTMAN: Oh, right. None of them meet
18	no one meets 100 percent.
19	JUDGE MOORE: That's the other evidence about the
20	New York plants, is it not? There are no numbers in your
21	record. Why?
22	MR. CHRISTMAN: There are some, but it's hard to
23	dig them out.
24	JUDGE MOORE: What are they? Enlighten me,
25	please?

MR. CHRISTMAN: Well, as you say, there's 35 to 40 percent for the nine mile facility, and I would have to -you'd have to go out to the number of monitors provided and the number -- it's impossible to tell how many monitors are -- the capacity from looking at the plants. We couldn't figure it out and the witnesses couldn't seem to tell us.

But it was clear there was less than 100 percent.

And indeed, some of our testimony showing was quite small.

In some cases we had to withdraw.

But your questions is, why do --

JUDGE MOORE: In 1985, when the Krimm memorandum was issued, there were 90 some plants licensed. That meant there were 90 some emergency plans -- in TV land. That means, in theory, the staff and FEMA had found the planning base for 90 some emergency plans adequate. And to find it adequate you have to know what you found adequate.

So in theory, the staff and FEMA had looked at all those other plans, and when they gave it their stamp of approval, this issue had been looked at.

MR. CHRISTMAN: Yes.

JUDGE MOORE: Why is the record totally devoid of any information as to what the rest of the country and the other 90 some plants out there were doing?

MR. CHRISTMAN: Because it's very hard to find from the published documents -- and we went and looked --

what the capacity is. 1 JUDGE MOORE: It's not that tough to bring 90 3 witnesses, one from each plant, in and ask them, though. MR. CHRISTMAN: You think it's not tough to bring 5 in 90 witnesses? It's very tough. And we presented evidence. We were worried about 6 7 confidentiality. We got information from the local government people, who seemed to have this information. We were required -- we were forced to withdraw it because we 10 did not want to reveal their names. JUDGE ROSENTHAL: Mr. Christmas, if you had two 1.7 12 EPZs, both of them with the same total number of people within the EPZ but in one case the population is 13 concentrated within a mile of the reactor foundry. In the 14 15 other case, the population is all of the outer extremities. MR. CHRISTMAN: The rim of the wheel versus the 16 17 spoke --18 JUDGE ROSENTHAL: In no circumstances -- you can't tell me, I wouldn't think, that the same planning estimate 19 for both EPZs would be appropriate. Now, it seems to me 20 that, given the widely variant population distribution 21 within the EPZ, that you'd have widely variant estimates as 22 23 to the number of people that would require monitoring. MR. Ch. TMAN: Might be. 24

25

JUDGE ROSENTHAL: Or would seek monitoring, even

1 if they didn't require it.

MR. CHRISTMAN: It might be -- you're saying the number of people who might be contaminated, affected by the plume or who might be asked to, as a precautionary measure --

JUDGE ROSENTHAL: Or might themselves decide. I might well -- if I'm half a mile from the plant when the whistle blows, I might well decide that I want to be monitored, out of an abundance of caution, whereas if I were itting on the outer rim of the EPZ I might not have that same measure of concern.

MR. CHRISTMAN: You might, if you -- and probably a small fraction would. You might, if you didn't listen to any information you received, any reliable information. If you didn't act rationally, you might very well.

JUDGE ROSENTHAL: Well, my -- I'm not a psychologist, but my impression that you can't count on a population to act entirely rationally in the face of most emergencies, and I would suspect particularly one of a radiological character.

MR. CHRISTMAN: Well, Judge Rosenthal, you've got to be careful. There's an extensive record in this case.

People -- to act rationally in emergencies, as a matter of fact.

Yes, I can't say 100 percent. here will be

But people react very rationally and you'll find the county's witnesses saying that the evacuation of Three Mile Island, the shadow evacuation, which was the most unplanted thing that can be imagined, reflected an orderly process.

People make up their minds and they listen to information and they do the right -- they make a rational risk assessment and do the rational thing, generally.

JUDGE ROSENTHAL: Let me ask you one question on another facet of this matter. That is, my recollection is that the licensing board took into account the services of the Nassau County Police escorting people, or at least traffic management, or whatever, from the Suffolk borders to the reception centers in Nassau.

It's also my impression that a large amount of the evacuation would be in Suffolk County, from the outer boundary of the EPZ to the Nassau County line.

MR. CHRISTMAN: Yes, sir.

JUDGE ROSENTHAL: Now, did the licensing board take into account that at all, and if not, why shouldn't it have.

MR. CHRISTMAN: No, it didn't and they shouldn't have, because when you're talking about Suffolk County you're talking about their three main highways: The Long Island Expressway, the Northern States Parkway and the

Southern State Parkway. And those are limited-access roads.

: 5

Ones the people get on those main evacuation routes, it's bumper-to-bumper traffic, what's called level of service F. It's called forced flow or stop and go.

The problem people will have is that people outside the EPZ, if they wanted to get on and go to the grocery store, will have difficulty getting on the auto ramps. The problem -- the evacuees don't have any problem. You don't need traffic cops to drive -- to direct you along the Long Island Expressway. You do have traffic guides inside the EPZ, of course, to expedite people's getting out of there.

JUDGE ROSENTHAL: Well, all you need on the expressway, I think, are people to feed you for the 36 hours that you're sitting in one place.

MR. CHRISTMAN: It takes more like about an hour and -- well, starting -- the first people are expected within about two hours.

I know what you're say ng, but that's not true.

You know, 30,000 people -- 30,000 cars, I'm sorry. 30,000 cars drive westward cut of the EPZ every week day morning and they don't like it. It's crowied. It's often the level of service F, but they get there and it doesn't take them the amount of time that's been given for evacuation.

Now, the reason is, the issue of traffic control 1 2 is at the intersections. There is no real -- our evidence 3 suggests that you don't really need traffic cops at those 4 intersections near the facilities either, but to be absolutely safe, Mr. Urbanik, from the NRC staff, said he 5 thought there should be traffic control. 6 7 Our witness say, yes, he thought there should be 8 traffic control, too. The Board agreed. Now, I didn't get to your wheels, spoke and hub --9 10 I'm sorry, I interrupted you. JUDGE ROSENTHAL: Go ahead. 11 12 MR. CHRISTMAN: Would you like to me go to the wheel or --13 14 JUDGE ROSENTHAL: Go ahead. MR. CHRISTMAN: Okay. 15 You've posed a very difficult to mical question 16 in terms of probobalistic risk assessments. In other words, 17 18 if everybody lives real close to the plant, once the probability that a certain number of people are going to be 19 20 exposed given the spectrum of accidents that might occur as opposed to the people on the outer rim. 21 22 But, I still think the 20 percent applies in both cases because the philosophy of the planning is to look at 23 the plant conditions and LILCO's plan reflects that. You 24

can look at the pie charts they have and see that. They

have simple rules for what's happening to the plant and when you tell people get out because we don't know -- you know, there may be a problem -- you get them out fast.

So I think probably the 20 percent should apply in either case just as well. Because remember, we're not predicting how many people are going to show up. But some day, in the year 2005, in a particular Class 9 accident we can't predict.

We're making a planning basis that all of the experts from the agencies and our experts said, in our judgment, that's a reasonable planning basis.

And moreover, we wouldn't went beyond that. We told them how we were going to expand this planning basis, if we had to. We've got a whole layer of back-up measures. And so, LILCO just went beyond the standards.

But I'm telling you, it's the 20 percent standards that we're defending, and that's what the plan is based on.

JUDGE MOORE: Can you tell us why the upper bound, i.e., the fudge factor that was chosen by the Krimm memoranium was chosen and what it's rational is?

MR. CHRISTMAN: Yes, it's -- and it says that for the record. It says there's a large measure of professional judgment, and they asked the individual witnesses whether you personally agree and Mr. Husar said, my personal opinion is -- he said, look, if policy had set a higher, in their

	집에 보고 있는데 보다 되었다. 그는 그 사람들은 사람들은 사람들은 사람들이 되었다. 그는 사람들은 사람들은 사람들이 되었다.
1	judgment, you know, we'd implement higher. And they said
2	the county's lawyer said, well, what's your personal
3	judgment? He said, in my opinion, I wouldn't go higher than
4	20 percent.
5	And they were saying and there is more testimony
6	to that of that sort. Mr. Kantor from the NRC staff
7	talked about all the people he talked to, and he said, look,
8	we deal with these matters every day. We talk to FEMA. We
9	talk to the the NRC staff talk to FEMA, and back and
10	forth, and the professional judgment of the planners is that
11	20 percent is enough.
12	Now, LILCO supported that in their own testimony,
13	but, you know, I talk only about the Federal Government.
14	JUDGE WILBER: The number of people you are saying
15	can be handled at Hicksville and Roslyn is based on 100
16	seconds per vehicle, a number that you've used?
17	MR. CHRISTMAN: That's right.
18	JUDGE WILBER: I come up with several different
19	times and I wonder which one you have in mind.
20	If you use 100 seconds per vehicle that would I
21	think calculate out to 70 seconds per passenger · ·
22	MR. CHRISTMAN: Let me give you how I got the
23	numbers, if you don't mind, and then you can you can see

numbers, if you don't mind, and then you can -- you can see if I'm not right after the argument from the record.

24

25

You've got -- at Hicksville you've got 32

monitoring stations. At a monitoring rate of 1152 vehicles per hour, which you can either find in the traffic -- in the traffic reports or you can calculate it for yourself with a calculator, if you want. You know, 100 seconds divided into 3,600 seconds. That sort of thing.

The number of vehicles you get in 12 hours is 13,824 vehicles. That amounts to of people of about 38,707, which is about 24 percent of the roughly 160,000 people in the EPZ.

Roslyn, 16 monitoring stations. You do the same calculation, you get -- there's a monitoring mate which you can either calculate or get out of the traffic documents: of 576 vehicles per hour, 6,912 vehicles in 12 hours.

People, over 19,000. About 12 percent.

That's where the 36 -- I added those two up.

That's 36 percent with just those two facilities. But we haven't -- as with the sirens at Seabrook, the facility is still there and we don't have the --

JUDGE WILBER: Do you have other testimony that says it takes -- it depends on which part you want to read. Sometimes it's 66 seconds per person, not vehicle, per person --

'Mk. CHRISTMAN: Buses. That's buses.

JUDGE WILBER: And that's also 90 seconds per person.

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1	MR. CHRISTMAN: That's yes. 90 seconds didn't
2	play a part in this. It was either an earlier version or
3	something
4	JUDGE WILBER: Well, that's in one of your
5	operating procedures.
6	MR. CHRISTMAN: Yes, I know. Some of those were -
7	- you know, we also put in the amendments to the operating
8	procedures.
9	The numbers your numbers are correct. The 100
10	seconds is for the vehicles coming through. That's a
11	vehicle. Even if it has four people in it. The 60 seconds
12	is for bus passengers arriving in Hicksville.
13	The buses you know, the general public that
14	don't have cars of their own, they come in buses. They're
15	all taken to Hicksville and they are monitored individually.
16	The monitor gets on the bus, goes up the isle has people
17	stand up and does a X-pattern I believe front and back.
18	That takes a little extra time.
19	The rationale for the extra time on that is in the
20	record.
21	JUDGE WILBER: Actually, it takes less time,
22	according to your figures.
23	MR. CHRISTMAN: Well, it takes more time per
24	person probably.

JUDGE WILBER: That's what I'm talking about. If

1 you do your numbers of 100 seconds for 2.8 passengers, 2 that's 70 seconds per passenger --3 MR. CHRISTMAN: Well, yes, they --4 JUDGE WILBER: -- as opposed to 60 seconds. 5 MR. CHRISTMAN: Remember they have --6 JUDGE WILBER: These may be minor seconds, but if 7 you add them up over several thousand persons, it starts 8 chewing away at your percentages very quickly. 9 MR. CHRISTMAN: Yes, but it doesn't cause me any 10 problems because, you know, the 100 seconds is -- in the first place, it involves things like driving up. You know, 11 12 you ask the person, do you need a map to congregate care 13 center. They drive off. 14 This was tested -- was measured in actual practice 15 with a several hour exercise that was done right before the 16 hearings and it was videotaped. The videotape was offered 17 into evidence, but the licensing board refused to accept it. 18 Mr. Lieberman, though, went to the videotape and looked at -- it must have been an incredibly boring job, but 19 20 he counted them and timed it with a stopwatch. And he was 21 also at the exercise and I think I saw him going around with the stopwatch timing the actual cars at the same time. 22

And he produced a graph of how long it takes to do this procedure, and it's in the record. It's attached to his last piece of testimony, probably called surrebuttal

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that he put into evidence. And you'll see a graph there 1 2 that shows the timing of these things. 3 So I can quibble and try to explain the 4 differences in the times, but let me tell you it has been tested and it is in the record. It's been practiced and it 5 6 works. 7 And also, I believe it worked in the recent exercise and I believe everything went off okay there, too. 8 9 At least, they met the timing. JUDGE WILBER: How do you explain the board's 10 statement that FTMA had no enthusiasm for a 90 second per 11 person measurement? What does that mean? 12 MR. CHRISTMAN: They -- simply at the hearing they 13 14 had not signed off on the monitoring procedure, and I don't remember where the statement --15 JUDGE WILBER: I'm talking about the licensing 16 17 board. MR. CHRISTMAN: No, I understand. It's from the 18 initial decision. I don't remember exactly what part of the 19 evidence he was referring to, but it's not particularly 20 important. They have -- the testimony from the FEMA 21 witnesses --22 JUDGE WILBER: Well, it's important if you add 15 23

or 20 percent to you times, which reduces your number of

people by that amount.

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MR. CHRISTMAN: The lack of enthusiasm, if any, was the -- came from the FEMA testimony, I suppose, that there are other ways to do it and some places take longer.

But the testimony also shows that the longer you have to monitor to find contamination the smaller the contamination you're probably talking about. The licensing board correctly found that as a means of screening people in rather large numbers, this is a perfectly appropriate procedure.

And let me remind you, too, that the procedures and the training calls for these people it monitors that it has to be very, very conservative. And so, if in monitoring the car and the occupants in the 100 seconds they find any evidence of contamination, they are directed and trained to send the people to the decontamination trailers where they get much more thorough monitoring.

JUDGE MOORE: The licensing board, as I read it's opinion, seemingly dismissed almost out of hand the monitoring shadow effect asserted by the Government. A shorthand way of referring to that, I guess, would be the fear factor.

Yet, on the one hand the licensing board did that, on the other hand the licensing board accepted, embraced, if you will, this -- the Krimm memorandum that doesn't explain any of its rationale except it lists three factors on which

its based on. And the second of those factors is the ferr factor.

Now, how can the licensing board consistently dismiss the monitoring shadow effect, i.e., the fear factor on the one hand and then embrace the Krimm memorandum which endorses the same concept and says that he's relying on that professional judgment which embraces the fear factor.

I see an inconsistency there that I can't raconcile.

MR. CHRISTMAN: Okay. I don't think it's truly an inconsistency, although it does look -- it may look that way on the surface.

The -- I suppose it's always conceded that there will be some probably small number of people who might show up regardless of objective need. And the record also reflects that part of the reason for having the monitoring requirement at all was to allay public concerns. And so I think it's appropriate -- was probably appropriate for FEMA to say, yas, some small number might show up in addition to allay fear.

Bu' pasic -- but you have to read that, I think, in connection with all of the consistent and supporting evidence that came into the record, which says that the 20 percent is not only supported, in the judgment of FEMA, by the factors listed in the Krimm memorandum, but

56 it's supported by the factors listed by Mr. Kantor, the NRC staff witness, which includes things like the concept of making protective action recommendations based on plant conditions. It is consistent with out witness' testimony that it's consistent with how they've seen protective action recommendations made based on a plume. Did I say it's consistent with Mr. Hulman's totally different analysis? You see -- and it's consistent most of all with the witnesses, the live witnesses, who were there to explain the Krimm memorandum and explain that there is a -- it is to be sure, a large measure of judgment. And Mr. Krimm, I'm sure, was trying to articulate the basis for a judgment which is, at bottom, a judgment of professional experts, and he may not have, you know, given all the factors that go into one's judgment. But the record is clear that these people who have this judgment came in and said 20 percent is a substantial basis. JUDGE MOORE: Can you tell us -- since you entered

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the Krimm memorandum in evidence --

MR. CHRISTMAN: As did FEMA, yes, we did.

JUDGE MOORE: "- in front part of the memorandum, when Mr. Krimm notes that research into this matter however

has revealed that anywhere from 3 to 20 percent of the evacuees arrived at relocation centers or shelter, what that research is?

MR. CHRISTMAN: Yes, sir. It's Mr. McNutt, who is the expert at FEMA, and he has a data base. There is -- the record will reflect that there is an the evacuation in this country at least once a week, on average. There are lots and lots and lots of evacuations.

FEMA tracks these things. Indeed, they have reports of disasters that come in from the localities and they have a data base.

And that research was looking at the historical record of accidents and how people behave. What people have done in those accidents. And I can tell you, for instance, he considered the Three Mile Island incident. He considered the Mississagwa chemical spill. He considered the Taft Louisiana chemical spill. I don't remember what the chemical --

JUDGE MOORE: Is all this in the record?

MR. CHRISTMAN: Yes, it is. There's a list in the record. I think the county put it in cross-examination of the -- there was a list provided to the county in discovery of the -- at least some of the accidents or historical events that Mr. McNutt and company had looked at, and I'm pretty sure they put that into it. I think you'll find it

1 in --

JUDGE MOORE: All right. Are those the same group of disasters that your witnesses in 1984 relied on in arriving at the 20 percent sheltering figure that your three witnesses testified to and documented, if I remember correctly?

MR. CHRISTMAN: Yes. I'm not sure -- some of them were more -- Mississagwa is fairly recent. It was the same basic historic data base. The historic data base shows that very few people show up at reception centers. I think the 15 to 20 percent is at the high end.

In a place -- the record also will show that at a place like Long Island where people come from New York City and have -- well, there are lots of places to go on Long Island.

The only people that go to reception centers for shelter are people who don't have family and friends to go to and can't afford a motel. I mean, that's the sad historical fact and that's what the record shows, and it showed that when Mr. McNutt looked at it and it showed it when we looked at it, too.

1	MR. CHRISTMAN: There is a rudge factor in that 2
2	percent.
3	JUDGE WILBER: I though your earlier testimony was
4	based on some studies based by the center for disasters, or
5	I may have the thing all garbled there.
6	MR. CHRISTMAN: Oh no, but that is the historical
7	record. See they are the record. The disaster resource
8	center, they've gone out, and they send people to these
9	emergencies, you know the
10	JUDGE WILBER: As I recall, based on that, the
11	number was 20 percent.
12	MR. CHRISTMAN: Yes, but that's the way upper
13	limit.
14	JUDGE WILBER: No, no I mean based on the evenus
15	they analyzed, and the quick calculations showed it was 18
16	and a half, 25 and 20.
17	MR. CHRISTMAN: But that's either with the
18	right at the tail end of the distribution. It's up at the
19	upper half. At TMI 183 people showed up at the relocation
20	center, for instance. That would be more typical. In a
21	place like Long Island, that would be more typical.
22	Yes, the 20 percent was used, but that was the
23	Red Cross had lots of places to stay, and they took a very
24	conservative, the 20 percent was very conservative for
25	sheltering. Which also, well, it's also appropriate for

sheltering and monitoring.

MS. SHEA: That's right, that the Krimm memorandum starts with sheltering as a basis, and adds to it, a quantity over an above that to arrive at a modern training idea. That's --

MR. CHRISTMAN: I believe that's right. You know, they asked one of the FEMA witnesses, the county asked the FEMA witnesses, well, this is based on sheltering, is it just sheltering? And they said well, there were other things offered by sheltering. I'm not sure. We can't say they only went for sheltering. There are all sorts of services provided at reception centers.

But if the question is, did these people go on historical record for radiological monitoring, no of course not. There hasn't been a case like that. That's why FEMA had to exercise judgement.

JUDGE WILBER: But surely FEMA's looked at dozens of plans where some timing has been made and referred to Mr. Moore's question.

MR. CHRISTMAN: They have certainly looked at -- they review all of the plans.

JUDGE WILBER: There's nothing available to look at, as I recall in the Krimm memorandum.

MR. CHRISTMAN: Well, he means there has never been historic incident where you can -- gives you -- to look

at empirical data on people who went for monitoring. There is a historical, obviously there is a vast historical record of how people behave in real emergencies, which is what we wish to emphasize.

JUDGE MOORE: And is there an historical record for emergency plans, or prior to 1985 what the planning base was?

MR. CHRISTMAN: I think if you want a data base, somewhere out there that tells what the capacity of the reception centers are for the many other emergency plans for nuclear plants in this country, it's hard to find it. We've gone out and we asked --

JUDGE MOORE: That suggests that it's not there.

MR. CHRISTMAN: Well, I don't think it's been scrutinized. See, the problem is it hasn't been scrutinized on the record of these sorts of proceedings because it's simply not litigated elsewhere. I mean everything is litigated in the Shoreham case.

JUDGE MOORE: I'll grant you that -- that this is the first time it's been litigated, but I have a hard time understanding how 97 plans could be approved without a planning base for the monitoring figure prior to this day. Either that or FEMA and/or the staff were asleep.

MR. CHRISTMAN: No, no, I don't think so. It's not an issue there. They've simply set up a -- it's

1	litigated here, it makes no difference.
2	JUDGE WILBER: But doesn't J.12, whatever the
3	II.J.12, or whatever it is, isn't that a point that FEMA and
4	the staff should look at?
5	MR. CHRISTMAN: I'm sure they are. I would
6	venture to say that FEMA is certainly applying the Krimm
7	memorandum or
8	JUDGE WILBER: They must have numbers in or how
9	can they make a quantitative judgement on that?
10	MR. CHRISTMAN: Well, you're asking me, have we
11	gone out and looked at, for instance, exercise reports, and
12	plan reviews of other plans, to try to find out the numbers.
13	Yes we have. The answer was not crystal clear.
14	JUDGE WILBER: I'm sorry.
15	MR. CHRISTMAN: The answer was not crystal clear.
16	It's not easy you can't find those numbers and make a
17	column, and look, we've tried. FEMA knows what it's doing,
18	and I believe they are reviewing these against the Krimm
19	memorandum, and they certainly exercise
20	JUDGE WILBER: Since 1985, what about before that?
21	MR. CHRISTMAN: Well, you know you're going to
22	have to you probably ought to ask someone from the
23	federal government what they did before then. I'm sure, I

know that FEMA's review program is an evolving process, and

I'm sure it is not a contentious issue in those days,

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because it's after all, facilities, which are usually high schools, or churches, for needs people.

JUDGE MOORE: We have held you over your time.

MR. CHRISTMAN: Oh, I'm delighted to be held. Do
I get a few paultry seconds to sum up?

JUDGE MOORE: Yes.

MR. CHRISTMAN: Okay, let's see if I missed any of the questions you asked Mr. Case, I guess I made the point that we're not talking about predicting the number of people we're setting up data base, that was the most important message I wanted to deliver today.

I also wanted to mention the LULU issue, even though nobody else has, I don't think anybody cares about it. You know, even if you accept the proposition that people around the, you can call it another type of shadow effect, that people are going to flee from hose reception centers in an emergency. The record refeats on page 18,600 and a couple pages before that, that it would be reasonable to assume that the people would flee in panic promptly, and they will therefore evacuate the area, and the background traffic will go down, and evacuees will find it easier to get to the reception centers. Likewise, you would reason that the evacuees around the reception centers where the evacuees are coming toward them, and again that would make it easier.

So leaving aside all of the arguments we made in the briefs, if you look at the LULU issue, it, and if you believe it, which I don't, it helps the LILCO plan.

The short of the matter gentlemen, is that there are no substantial issues in this appeal, except for the 20 percent issue, and there the record soundly supports the decision the board reached. And I believe you should affirm the license in this issue, and I thank you.

JUDGE MOORE: You're in the best position to bring us up to date, I guess, on exactly where the litigation for the license on LILCO stands. What parts -- are there hearings going on before any licensing board?

MR. CHRISTMAN: I'll tell you what -- no. But I can tell you what is now before the Gleasch Board for decision. We have the -- we have motions on the EBS system, the emergency broadcasting system, and we have asked that any remaining issues be resolved summarily. We have now the issues of hospital evacuation time estimates, and bus driver role conflict, that was submitted with up in the hearing in May and June and I believe now is awaiting a decision. We have a little hearing that was held in early July on the conduct of discovery, and that in turn effects the issue of the realism contingencies. But the important thing, I think you want to know, since realism keeps coming up, is that the realism contingencies are in the process of being resolved

1	in LILCO's favor. And the only thing we don't know yet is
2	whether the licensing board is going to resolve them on the
3	merits as we have urged, or as a sanction against the
4	intervenors for refusing to go forward with the discovery of
5	the order.
6	JUDGE WILBER: Did you say the realism has been
7	resolved?
8	MR. CHRISTMAN: It has. The decision has not been
9	written. But in various tele-conferences, the board has
10	indicated that it is not going further with the realism
11	contingencies.
12	JUDGE ROSENTHAL: So there will be no hearing.
13	MR. CHRISTMAN: There will be no hearing.
14	JUDGE ROSENTHAL: And when we're talking about the
15	realism, we're talking about whether they presume the best
16	efforts of the state and local governments following the
17	emergency plan of the utility, will be sufficient?
18	MR. CHRISTMAN: There will be no hearing.
19	JUDGE ROSENTHAL: No hearing.
20	MR. CHRISTMAN: But you will certainly get the
21	issue.
22	JUDGE ROSENTHAL: Well
23	MR. CHRISTMAN: You will get it without a hearing
24	record, except for the record on the conduct of discovery.

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But --

JUDGE ROSENTHAL: We might be able to wait a while.

MR. CHRISTMAN: I imagine one of the things you'll be getting next is the bus driver role conflict decision, and then there is the EBS. I hope that there will be no hearing on the EBS, either because we've asked that there be no hearing, we think there should not be.

JUDGE MOORE: You saw a summary disposition?
MR. CHRISTMAN: Yes.

JUDGE ROSENTHAL: The role conflict and the hospital issues are ones that we remanded, right?

MR. CHRISTMAN: Correct, and we've now had those hearings and they were very detailed and they will be coming up and if anything the record in those hearings in even better than the one in the reception centers.

JUDGE ROSENTHAL: Thank you.

MR. BACHMANN: May it please the board. The first issue I think we really need to talk about since it was brought up by the -- attorney, is the Belmore situation. As a little background to that, if you'll note the letter I sent to this review board on August 31, the second page, there is a citation to the initial decision, which goes to, what would that be, 27 NRC, pages 531-532. Where it has the numbers for the capacities of the reception centers. I believe that was a question as to where you would find those

numbers, and that's where it is. So that might help out a little bit.

The -- it's been stated by counsel for interveners that there was a number of issues that would call for an overall remand of the reception center issue back to the licensing board because of the decision made by the New York court. Since I saw the reaction of this review board to the suggestion of a motion to re-open I'm not going to pursue that any further.

The only thing that was said was that, well, there's going to be an effect on traffic, for instance, or maybe on the facilities. The licensing board said that the ultimate capacity to monitor the number of evacuees as planned, depends upon the rate of which the reception centers can monitor them, and not the capacity of the road system, to deliver the evacuees to the centers.

JUDGE ROSENTHAL: That may be so, but isn't it fair to say, Mr. Bachmann, that the licensing board's decision rested upon its assumption that there was going to be three, not two, reception centers. And I don't see anything in the licensing board's decision that said, well we've got in effect, one reception center to spare. That even if one of the reception centers went by the boards, that there still is an adequate margin. The licensing board had three reception centers before because that was what the

applicants had served up, and the decisions seemed to be
based upon three. And it seems to me in that circumstance,
that at the very least, the matter would require a remand of
the licensing board to say okay, folks, your previous
assumption that there were three reception centers is now in
the rumor stage. Now there is minimum substantial doubt
that it will be a decision of the state Supreme Court in New
York and how do you come out with the two reception centers?
Why isn't that the appropriate judiciary course, if you
will?
MR. BACHMANN: It is one way of doing it sir.
JUDGE ROSENTHAL: Of course it's one way. But why
isn't it the appropriate one?
MR. BACHMANN: I would say just simply because
litigation must sometime have an end, and to
JUDGE ROSENTHAL: I haven't discovered that to be
an axiom that has much force in the annals of NRC
judicatio.
MR. BACHMANN: Certainly not with the Shoreham
case sir. However, it when we have a situation where we
have a court decision, which the licensing board

case sir. However, it -- when we have a situation where we have a court decision, which the licensing board acknowledges could occur, and suggested that the record could be re-opened using proper motions at that time, which was in the initial decision, we don't really know the effect, and I would say that backing off perhaps from the

formal motion to re-open on the part of the interveners, if
that is not what the appeal board is looking at, that at
least they should be tasked with making some sort of prima
facie demonstration on how the removal of the Belmore center

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JUDGE ROSENTHAL: We have to make the demonstration. The applicant was one that served up a plan and had three reception centers. It seems to me, if one of the reception centers had disappeared, it's the applicant's burden, not that of the government to establish that the illumination of this warm reception center --

JUDGE MOORE: Well, in any event, isn't it something that should be done in front of a licensing board?

MR. BACHMANN: Of course, the appeal board has the power to take facts and make its decision since the record has been closed. It depends on really, what are we talking about. Right now, we don't know, as Mr. Christman has said, what the effect of that court decision will be. Perhaps once we do know, I would suggest that --

JUDGE ROSENTHAL: When are we going to know that?

One of the options that are available to the applicants is an appeal. I don't know what the course of appellate review is in New York, I assume go to the appellate division, and I would imagine, unless that court acts with -- then most appellate tribunals do, that would be a period of time. Are

you suggesting that we sit back and simply hold this to wait and see whether there's appeal taken, or whether alternatively they seek a license from the appropriate local officials, or whether they get somebody to override the local zoning regulations, or what. We've got this case right now before us. And it doesn't seem to me to make a lot of sense for us to sit back and wait for future developments. It may be months perhaps even years.

MR. BACHMANN: One of the members of the board mentioned, I believe it must have been Mr. Moore that now Belmor has disappeared. Belmor is still there as far as we know. I have difficulty with what I perceive perhaps to be perhaps pre-judgement here, because the facility still exists, they've not been ordered to discontinue it yet, or to dismantle things. We simply haven't had a demonstration of the effect of the court's decision. And that's where I have problems with a wholesale remanding.

JUDGE ROSENTHAL: It hasn't physically disappeared, but it seemed to me that the judge's decision, which may or may not stand up on appeal, if there is one, is pretty clear in its face. She holds that you cannot operate this as a reception center, it's a practical matter, without obtaining a permit or license or some kind of authorization.

Now, that seems to be fairly clear. It doesn't physically dispose of Belmore, but it looks to me that it

brings its utilization as a reception center into considerable doubt.

MR. BACHMANN: Well, as it was mentioned earlier as a response to our question from Chairman Moore, that in the event of a national emergency, and we skirt well into the realism situation again, Mr. Christman pointed out that it would be the governor or someone else would come in and step in and do it. One must also, I believe, under the way the Commission has set it out, assume that the local authorities would cooperate. They would not turn these people away.

JUDGE ROSENTHAL: Could it be used as a reception center even under the realism doctrine if the requisite of pertinencies weren't all there? I though that the whole issue here was whether putting in certain structures or equipment was a violation of the zone laws. If that equipment isn't there when the emergency occurs, I don't see how the realism doctrine is going to help the utilization of that facility as a reception center even if the governor, as would be presumed, is prepared to do whatever is necessary.

MR. BACHMANN: Well, if we do apply the realism doctrine at that time, yes, that's quite correct. If at that time certain of the facilities have been removed and cannot be returned in time to be utilized. That's correct, we don't know if the judge is going to warn them to take

these things out permanently.

In other words, the -- from what I've been hearing, of course I'm not involve in that part of the case, in the state of New York, but what I've heard is that one of the proposed orders is that are prohibited form using this as a reception center in the event of a radiological emergency, that sort of thing, without, perhaps, without requiring the dismantling of the trailers and the facilities. We don't know that, that's the problem.

JUDGE ROSE THAL: Well, I would be hopeful that judge would enter an order within a reasonable period of time and maybe that will answer all of the speculation that leads us to what she is going to direct.

MR. BACHMANN: Well, my suggestion, and I believe I'm trying to get back to answering your question as to what should be done, and I, or position is that a flat remand certainly at this time to the licensing board, would really be, I wouldn't want to say a waste of resources, but it would certainly use a lot of them for -- needlessly, to the extent that this issue could be brief, d, and probably, and I would suggest affidavits submitted, so that this board would have an opportunity to have a feel for the loss of Belmore, what would that entail. These are the -- what has been decided already by this licensing board. Then we might have a more focused type of situation where this sort of

licensing board could look at it.

JUDGE ROSENTHAL: Why shouldn't the licensing board look at this issue in the firs irstance?

MR. BACHMANN: Are you saying that the issue could be briefed and all that?

JUDGE ROSENTHAL: Certainly it would be briefed, why shouldn't it be briefed before the licensing board?

MR. BACHMANN: Are you suggesting that this appeal board would send the court decision back to the licensing board?

certainly be an order out of this board saying that there has been a new development since the licensing board's decision, a development that the licensing board recognized might occur, but it indicated that it didn't want to deal with unless an -- occurred. The dimensions of this new development are uncertain, sending it back to the licensing board to deal with it as you see fit, and one would hope you would get additional information along the way, at least as to what the state Supreme Court Justice is going to order. Why is it appropriate for it to do that rather than for us, isn't that the normal course of the judicatio, when you get a possibly significant development? I think most of public courts in that circumstance put it right back to the trial court? They said deal with it, there's been this new

development.

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MR. BACHMANN: Phrased the way you have, it seems like it would be an appropriate manner of handling it.

JUDGE ROSENTHAL: You would phrase it differently? MR. BACHMANN: No, no, it was the way you phrased it. My phraseology I don't think would work. The point, I guess, I was trying to make also though is that to the extent that this is -- does not effect, for instance we've got the four points on appeal, none of which seem to be effected by this development in the state court. That certainly can be decided by this tribunal without necessity of doing anything else. That's an important point I'd like to make. To the extent that there may be an effect by the judge in the State Supreme Court sending it in fact for the licensing board to determine the extent to which it effects its prior decision, and to take whatever steps necessary to gain more information, I would say that's an entirely appropriate way of doing it, to the extent that it would effect it.

There's no more on that. The planning basis is a word that has been flipped around so many times, I'm not even certain if anyone knows what it means any more.

Planning basis is sort of a semi-term of art used by our emergency planning people in FEMA. It's a situation where you must have a plan and you must have so much in the way of

people and facilities to do certain things, it's not just the number of people, it could be a lot of othe different things. I mean, it's not just the number of people you expect to ride to a reception center, it could be the number of trucks you need to do certain things. You just have a planing basis.

JUDGE MOORE: Prior to 1994, December 24 actually, I'm sorry of 1985, what number did the staff use as a planning base?

MR. BACHMANN: For what?

JUDGE MOORE: For monitoring?

JUDGE WILBER: II.J.12.

MR. BACHMANN: II.J.12, I don't think they actually had a number to tell you the truth. I believe what they did, and I was not on the case at the time, I was not involved in this particular type of situation, so I apologize for not being able to answer directly, but from what I understand, and given the range, what we do know about other plans, that II.J.12 was used in a -- I don't think they had a specific number. If someone came up with a number that looked reasonable, I believe that they probably looked at the reasonableness of it. But again, that is really a FEMA determination, also.

And of course, FEMA works with the staff, is not the staff, so I can't really speak to them.

1	JUDGE MOORE: Final call for the NRC, is it not?
2	MR. BACHMANN: That's correct.
3	JUDGE MOORE: So it's not really FEMA's
4	determination, it's yours.
5	M BACHMANN: Well, we give them great deference,
6	just as a licensing board.
7	JUDGE MOORE: Sounds to me like you're advocating
8	that responsibility.
9	MR. BACHMANN: It's a situation where the on-site
10	emergency planning was put into our bailiwick, and the off-
11	site evolved upon FEMA, and that was decided
12	JUDGE MOORE: C n you tell us what the historical
13	number is for other plants?
14	MR. BACHMANN: No sir I can't.
15	JUDGE MOORE: Can you tell us what any other
16	plants are doing in this regard, what their planning base
17	is? We know from the record that 36 percent is 9 mile
18	point, we don't know why, however. How about Salem right
19	down the road?
20	MR. BACHMANN: Sir, I couldn't testify
21	JUDGE MOORE: Give me a point?
22	MR. BACHMANN: No sir, I couldn't testify to that.
23	However
24	JUDGE WILBER: Could I take another attack on an
25	item here? The board accepted that 20 percent value, but I

understood that they accepted it only if there was a clear 1 concise communication with the public as I recall their 3 words. And then they went on to say that they hadn't seen that yet, as I recall, or words to that effect. Now, my question is, they didn't make that a 5 condition for the license or anything, and it should just be 6 7 some kind of a condition? Because it appears the board thought it was a necessary thing that was not there. 8 MR. BACHMANN: No I don't believe so. The board 9 made that assumption that it would be there. 10 JUDGE WILBER: But based on their further thoughts 11 there, that they were reasonable sure that it hadn't been 12 there in the past, so how can they assume that? 13 14 MR. BACHMANN: Are you referring to its reference to the oral 5 exercise results? 15 JUDGE WILBER: I have not idea what it was 16 17 referenced to, but they --MR. BACHMANN: They indicated in the February 1988 18 decision on the exercise that they were not too happy with 19 what the board found in the way of emergency broadcast 20 system, and I think that's the part you might be referring 21 22 to. JUDGE WILBER: It could well be. LBB 882. 23

JUDGE WILBER: It could well be. 188 882.

MR. BACHMANN: That's correct. And of course that is also on appeal, and there's been a subsequent exercise,

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and given the bounds of the issues presented to this particular licensing board that we're discussing here, that that was an assumption the board made, was not challenged.

And in fact, it was not raised as an issue on appeal.

JUDGE ROSENTHAL: Do you agree with Mr. Christman that Belmore is now our of the picture, that there's no reason for explanation as to all of the traffic patterns. And the traffic pattern changes would be essentially insignificant?

MR. BACHMANN: The way I read the board's initial decision that's being on appeal right now, is that it agreed with the traffic experts of the staff and the applicants and that is the controlling factor of the traffic was as you came into the reception center. And the number of people that could be monitored. Because all the rest of it didn't really count.

JJDGE ROSENTHAL: So it doesn't matter whether these people were going to Belmore or whether they were going to Hicksville?

MR. BACHMANN: Well, what I'm saying is that the board made findings that from the time these people perhaps left their home, or certainly since they left the EPZ, and they're coming to the reception centers to be monitored, that the single over-riding factor was the speed at which they could process people in the reception centers --

1	JUDGE ROSENTHAL: They had to get there.
2	MR. BACHMANN: Right. But they would be queuing
3	on the reception centers.
4	JUDGE WILBER: That's predicated I'm going to
5	three centers and not two. Now this que would be longer
6	than the two remaining one by whatever percentage it is
7	here, but
8	MR. BACHMANN: That's correct, which means that
9	the queuing would be even more of a factor determining the
10	capacity and the usabilities of the reception.
11	JUDGE WILBER: Yet the monitoring rate remains the
12	same. 30 is it now queuing the controlling item or is it
13	monitoring the controlling item?
14	MR. BACHMANN: Maybe I misspoke here. What I'm
15	saying is that because of the speed at which people were
1.8	monitoring, that traffic really was not an issue, it turned
17	out not to be an issue until you got to the line of the
18	reception center.
19	JUDGE WILBER: That's with three centers.
20	MR. BACHMANN: That's with three center.
21	JUDGE WILBER: Now you have all of those that were
22	going to Belmore in the lines for the remaining two.
23	MR. BACHMANN: Therefore the queuing that
24	situation is going to be even more so the controlling factor
25	as far as traffic, and now what happens from the time the

person leaves their home to get to the reception center.

In other words, the capacity and the ability of the reception centers, numbers of people and all that sort of thing, is to a large part dependent, excuso me, let me back up for a second, the traffic concerns turn out to be not a concern, because when you got to the number of people involved, in other words, we were locking at traffic to see, can you get so many people to the reception centers and through the reception centers? And that's why we looked at traffic.

We found out that the traffic along the way was not the controlling factor, what was the controlling factor was getting through the reception center.

JUDGE ROSENTHAL. I don't know about controlling factor, but if all of the people are going through wherever they are at the time of the accident within the EPZ to the reception center which is at a considerable distance, have to go over some road to get there. Now the argument of Mr. Case, if I understood it correctly was that we will have three reception centers. You have traffic patterns to each of those reception centers. And now that you have two reception centers, so all of these people from these various locations within the EPZ, or going to reception centers over roads, but the traffic patterns are going to be somewhat different. And his suggestion as I understood it was, this

was something that would have to be explored on a remand.

Now, if I understood Mr. Christman correctly, he said that an important fact, the differences in traffic patterns and flow was a normal event to two reception centers as opposed to the three would not be significant. That was his argument. So what I was asking you was whether you agree with Mr. Christman that the impact upon traffic patterns and routes and all of that with everybody going to the two centers instead of the three, is sufficiently insignificant contrary to the suggestion of Mr. Case that's not something that would have to be explored.

MR. BACHMANN: I agree with Mr. Christman for the reasons that I said to Mr. Wilber. That is the concern of traffic is can you get enough people to the reception centers and process them? That's the reason you look at the traffic flows, or are there going to be any tremendous bottle necks --

JUDGE ROSENTHAL: Or -- that's right.

MR. BACHMANN: We've discovered over the course of the hearing with much testimony and much analysis and I presented that particular testimony like it was marked up from the staff, that that wasn't the problem, getting to the centers.

JUDGE ROSENTHAL: Why isn't it a problem?

MR. BACHMANN: The number of people that can be

processed in an hour, and the figures on page 531, is dependent on the ability of the monitoring station. And you would have basically, shortly after you started the 12 hour clock is that you're going to start forming lines of cars. So it really doesn't make any difference if people get stuck in bottle necks down the way, you're going to have this constant queuing situation throughout most of the --

JUDGE ROSENTHAL: You mean you're suggesting that they're going to be backed up from the reception center for 45 miles into the area around the plant, is that it? And it's going to be sort of like the escalator, that they're going to move up one car at a time? Is that your scenario?

MR. BACHMANN: My scenario is there will be ques but certainly not in the distance of 45 miles. The queuing will begin shortly after we start the 12 hour clock running, I believe it was in an hour or so.

JUDGE ROSENTHAL: It is about 40 miles, isn't it, to these reception centers to the EPZ?

MR. BACHMANN: Not quite that far --

JUDGE ROSENTHAL: Well wait a minute, from the other side of the plant the EPZ portion and the other side of I guess if I'm right about my geography to the east of the plant on the island, how far is it from there to Hicksville? I though it was at least 40 miles?

MR. BACHMANN: Yes, from the other side.

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1	JUDGE ROSENTHAL: Their people were considering
2	that.
3	MR. BACHMANN: I guess what I'm getting at is
4	you're going to have the same traffic patterns until you get
5	to within a few miles of the reception centers, whether
6	you've got Belmore there or not.
7	JUDGE ROSENTHAL: That's when they're going to
8	branch out?
9	MR. BACHMANN: That's when they'll go either north
10	or sough. Now you're producing 500 some odd more cars an
11	hour north instead of south. I believe T made a mistake
12	JUDGE WILBER: Well, I have another question. The
13	board seemed to rely on the staff testimony that the 12
14	hours and I think it's I.J.12, I hope have the right NUREG
15	0654 number. But they said that 12 hours had no bearing on
16	health and safety as I recall. Now is this typical staff
17	action that they will impose a condition like that which has
18	evidently cost a fair amount of time and money here, where
19	there's no health and safety benefits?
20	MR. BACHMANN: I wish
21	JUDGE WILBER: What time is health and safety,
22	when does it come into this thing?
23	MR. BACHMANN: I wish I had my witnesses' exact
24	quote. From what I understand from what he told me was that
25	it was not, we didn't look at 12 hours and come up with that

number because if you exceeded it you're going to get a certain amount of dose, and if you're in under it you're not going to. Obviously they want to be able to get people in and out and monitored, and check to see whether they've got contamination.

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But it was a figure that was arrived at. But of course 0654 and a lot of these things were designed by committees, so you can imagine that. It had of course, the effect on public health and safety, otherwise it wouldn't be in there, but on the other hand, to come up with a particular number, there was nothing magic about using dose calculations to come up with 12 hours, no. That was done to ensure that when people were planning that they marshalled enough resources to be able to do what they were supposed to do within what we considered a reasonable amount of time. And also we wanted to make sure that people weren't kept waiting for a couple of days, which I think was an example cited by the witness at one point.

Since I have over-stepped my time, I'd just like to make one more last statement, that --

JUDGE MOORE: A quick question on your witnesses' study on the footprint, and who would be at risk.

MR. BACHMANN: Yes sir.

JUDGE MOORE: When that was done from his testimony I can't tell, nor can I tell with any degree of

account that 22 and a half degree segment on either side of the primary segment for his footprint?

MR. BACHMANN: To the best of my recollection it did.

JUDGE MOORE: It did.

MR. BACHMANN: But that's just to my recollection at this point, without looking back at the figures I can't tell you.

JUDGE WILBER: Also in his restimony earlier in his analysis, it appeared to me that he was weighing this thing by predominant wind directions, or by percentage of wind directions. Now does this apply in every instance? Which would mean that you would never have 100 percent of the population from any sector effected. It would necessarily be less than 100 because you don't have the wind blowing in one direction 100 percent of the time.

MR. BACHMANN: That's probably a true statement.

That it would not in that way --

JUDGE WILBER: But it would not blow in one direction 100 percent of the time in an accident. As I read it they took a clock that goes over the years, evidently, and it blows to the north/northeast x percent, and maybe to the east/northeast a wide percent, and they weighted his

number of people that he would consider by these values.

MR. BACHMANN: That's correct, but we're also dealing with a time situation here. It's been estimated that the EPZ would be evacuated in approximately six hours in good weather. So over a certain number of hours, you would just have -- you would take the probability of the wind blowing a certain direction.

What I'm saying over a whole year --

JUDGE WILBER: But his analysis did not consider that. That's the point I'm taking. He weighted these by the wind direction.

MR. BACHMANN: That's correct.

JUDGE WILBER: Which would reduce the number of people would be in any one of his footprints.

MR. BACHMANN: Well he also, for instance, out of the conservatism that nobody left. In other words, if there were a plant accident he weighed that against the idea that he assumed that everybody just stayed there on their front yards and waited for the plume to come over, rather than getting in their car and going away. So there were conservatisms back and forth on that particular calculation.

MR. BACHMANN: I would just like to make one last statement and that is the reason that the issue of the monitoring population planning base we have got here is so long and convoluted. I am not even certain if anyone can follow it anymore.

I do know at one point the Appeal Board felt it wasn't even a proper issue to be heard. Then the Licensing Board convinced the Appeal Board and we went back and forth a couple of times.

But the real basis of it is, the Licensing Board said there was no evidence to accept 20 per cent. Now we have got lots of evidence. The Intervenors are unhappy that the Board, the Licensing Board, weighed the evidence and found out that the Applicant's evidence and that presented by FEMA and the staff outweighed their evidence.

To say that this is just based on sheltering data, that is the only, what I consider a good argument, because they used it at the upper end of the sheltering data to take into account the fact that we don't have any data for people, for large radiological emergencies such as what we are posing here.

Therefore, it has to be predictive. The only evidence that the Intervenors brought in on this case essentially was their monitoring shadow concept based on public opinion polls.

The Applicant had previously used public opinion polls and determined that they didn't work. There were at least two psychologists who testified as to the invalidity of public opinion polls as, of course, the Intervenors brought in their people that said they are wonderful.

So there was the weight of the evidence and we had experts differing upon the validity of these polls and the Board and the Staff's view came down and made the right decision.

Thank you very much.

JUDGE MOORE: Rebuttal?

MR. CASE: Given the Board's patience here with counsel I intend to be extremely brief in rebuttal, and just raise some of the points almost in a factual manner which the Board has discussed with other counsel.

The Board has indicated a concern about what the judgment would be of the New York Supreme Court, and I have here copies I can distribute to the Board now or later of LILCO's proposed judgment in that case.

The proposed judgment of LILCO says, unless authorization is maintained, this is what the Court would order.

"It is hereby immediately and permanently restrained and enjoined from using the premises identified in the Complaint as an emergency evacuation, radiological

assessment, decontamination and reception center for purposes or vehicles in the event of a radiological emergency at the Shoreham Plant."

For a minimum, we know that Order is going to be entered.

JUDGE ROSENTHAL: Do you have any idea when that Order is likely to be issued?

MR. CASE: I really can't -- obviously, all parties followed this case to some degree. The Judge was expeditious in resolving the cross motions for summary judgment.

I think it took her, once it was fully briefed, less than 90 days to actually reach a decision on the merits. So, since the two proposed Orders are before her now, I would assume it would be fairly quickly.

JUDGE ROSENTHAL: Well, obviously, Summary is going to supply us with the Order when it is in fact issued.

I have a question or two for you. One of them is, your adversaries particularly Mr. Christman, suggest that while it is true that Mr. Krimm did not testify himself that there is an abundance of expert testimony coming from both Applicant and Staff witnesses which support the Krimm analysis and conclusions.

With the consequence that what your endeavoring to do is to challenge the Licensing Board decision which had an

adequate evidentiary foundation. So I would like your response to that.

I would also like you response to the suggestion that the difference in traffic patterns that would flow from the elimination of Belmore is e Sentially no never-mind.

So that it isn't the kind of concern that you suggested it was in your opening argument.

MR. CASE: Let me respond to your second question, first.

I always enjoy Mr. Christman's argument and he is a very articulate man, but that is exactly what the Board heard today here, was argument. There is no evidence on the record as to what would happen with two reception centers, where the traffic would go.

Our point is exactly that which I believe Mr. Wilber made which was, we think at some point it is likely, possible, we don't know. Because we don't know what is going to happen. We haven't seen anything.

That queues will be the determining factor.

Queues from one plant will interrupt the flow to the other plant.

So, until we know what is going to happen, how resources are going to be divided up, how the populace will be divided up -- Mr. Christman can describe various routes to the reception centers for a long time, but we are

1	operating back in the speculation.
2	One other point that gets overlooked here is that
3	these reception centers have a decontamination function as
4	well as a monitoring function. The trailer which was at
5	Belmore is now no longer available.
6	Are they going to send one up to, this additional
7	trailer to Hicksville? Is there room there?
8	Are they going to send it to Roslyn? Is there
9	room there?
10	Is it going to go to a third facility?
11	Being facetious here, are they going to split it
12	in half and send the men's side to one? We just don't know
13	at this stage.
14	And that is the reason we believe a remand is
15	appropriate.
16	Now responding to the question of the Krimm
17	memorandum. Now matter who testifies about the Krimm
18	memorandum, the basic fact is that memorandum is based on
19	sheltering data.
20	Mr. Christman referred to an exhibit which goes
21	over that data. For the Board's convenience, it is Suffolk
22	County Exhibit No. 33, which lists the data, or some of the
23	data apparently considered in the Krimm memorandum.

Including Mississagwa train derailment, which was in 1979.

In point of fact, this is the exact same data base

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the Board rejected before, and what gets neglected here during this argument and discussion -- and I am sure Mr.

Zahnleuter and his witnesses would be offended by this -- is that the New York State Radiological Emergency Preparedness Group, another group of professional emergency planners, testified that they believe 100 per cent of the EPZ was the appropriate planning basis.

Now this also goes to the question raised by Chairman Moore, which is, do we have any historical data here? And for the Board convenience, at pages 44 and 45 of the government's proposed findings, we submit the data from the Ginna, the Nine Mile Point, Fitzpatrick, and the Indian Point Plant.

The citations of record are there, and essentially it is emergency planning personnel and the counties responsible for responding to emergencies at two of those sites, Ginna and Nine Mile Foint, certified to FEMA that they had sufficient numbers of monitoring personnel to monitor 100 per cent of the EPZ population in the J.12 limits.

Now it is true that at Indian Point there is not 100 per cent. But at those two plants, there is 100 per cent and there is evidence in the record.

We believe that what happened here, there was no weighing of evidence. There was no preponderance finding.

There was simply an acceptance of the Krimm memorandum, which is based on data we don't believe and which we believe the Board has held simply doesn't speak to the question of how many people we should plan for.

JUDGE MOORE: Can you explain for me, and I have obviously missed something in all of this discussions in these briefs, on what the logical connection between meeting sheltering and meeting monitoring is? So why do you use sheltering as any kind of a basis to determine the latter?

MR. CASE: That has been the government's point at the beginning of this hearing. There is no logical connection between the two.

It is an invalid data base for the conclusions that are reached. There is no logical nexus between the number who need sheltering and the number who need monitoring.

JUDGE MOORE: Because the function, the reason you go, is totally different?

MR. CASE: Exactly. You go for sheltering because you can't afford a hotel, you don't have relatives nearby. That is why you go for sheltering.

You go for monitoring either because you are told to go for monitoring, because you might be exposed to the plume EPZ, or because you have fears --

JUDGE ROSENTHAL: Everybody that goes for

1	sheltering gets monitored whether he or she wish as it or
2	not, is that not true?
3	MR. CASE: Well, I say
4	JUDGE ROSENTHAL: So that the sheltering is a
5	floor for the number of people that are monitored, I would
6	think.
7	MR. CASE: We would agree to that, and obviously
8	there may be a person who doesn't want to be monitored.
9	But, yes, we believe that sheltering in fact operates as a
10	floor to this, and really doesn't provide the logical basis
11	for any sort of conclusions about who will be there for
12	monitoring.
13	JUDGE ROSENTHAL: But the fact remains, does it
14	not, that we are really again in the world of total
15	uncertainty. I mean, there isn't any, is there, pragmatic
16	basis for determining how many people are likely to turn up
17	for one reason or another for monitoring in the event of a
18	radiological emergency?
19	We have no prior exparience. Three Mile Island, I
20	suppose, is the closest but it doesn't, as far as I know,
21	provide a very firm basis.
22	So this is totally in the realm of speculation.
23	Is that not so?
24	MR. CASE: Well, I

JUDGE ROSENTHAL: And, if it isn't so, you give me

the quasi-scientific or basis for making an informed estimate.

MR. CASE: All right. Like I always say, I don't like to tell other people how to run their case, but as I tried to indicate to the Board before, we can start off with the basic approach to who would require monitoring. Who would be ordered to monitoring?

How can we plan in the likelihood of that event?

The Hulman analysis was a start. Now, we wouldn't concede that the Hulman analysis is accurate or conservative at all, but there are computer codes that can take into account wind shift. You can get a very, if done correctly, approach to the number of people who would be required to have monitoring and a conservative estimate there.

on top of that, you would want to calculate -- and obviously, this can't be done on a mathematical certainty -- the number of people who are likely to go for monitoring even though they are not in that group that is ordered for monitoring.

JUDGE ROSENTHAL: But how do you arrive at a figure? Is this what, a psychologist's appraisal of a number of people that would be effected by a fear factor, or what? I mean, how do we get to this?

MR. CASE: I think you would have to combine both a quantitative and a qualitative approach. The quantitative

1	approach being some sort of survey to try to identify the
2	characteristics of people who would act this way. This is
3	done in civil litigation all the time when you try to
4	predict who on a jury array will vote your way.
5	JUDGE ROSENTHAL: Sometimes, you are dead wrong.
6	MR. CASE: Oh, yeah. Well, that is always a risk,
7	but we are trying to reach some sort of determination as to
8	some
9	JUDGE MOORE: Was the Krimm memorandum fortuitously
10	issued for this case?
11	MR. CASE: Well, we cast some doubt upon the
12	circumstances of issuance.
13	As I recall the FEMA testimony, it was that one of
14	the FEMA witnesses actually requested this memorandum
15	because, as I recall, he said, "We knew we would be looking
16	at this issue."
17	He said, "We would be right back in this courtroom
18	on this issue, again."
19	And so in our belief, there is some problem with
20	the way that it was issued and that it was directed towards
21	this case. And it was very hastily done, as I recall.
2:1	There is no attempt at studying the issue in the
23	way we believe it should be studied before the Krimm
24	memorandum was issued.

25

I would just like to conclude on one point that

1	was asked of Mr. Christman. What possible hearings are
	there below?
2	The government would take the position that we
3	can't yet say with any certainty that there will be no
4	hearing on the realism issues. We will have to wait for the
5	
6	decision of the Board on that.
7	It also the government's position that there is
8	likely to be a hearing on the recent exercise that was
9	conducted for the Shoreham Plant.
10	JUDGE WILBER: I missed that. Did you say there
11	is a potential for hearings on the realism?
	MR. CASE: Well, the government's position is, we
12	just don't know. We are not in the habit of predicting how,
13	with any degree of certainty, how the Licensing Board will
14	determine what it is going to determine.
O 15	Until we see an Order, we would just simply
16	
17	indicate that it is a possibility.
18	JUDGE MOORE: Mr. Christman has said that the
19	Licensing Board has stated that it won't go to hearing. Is
20	that your recollection?
21	MR. CASE: I do not work on that proceeding. Mr.
22	McMurray is a little more familiar with that.
	JUDGE MOORE: All right.
23	MR. CASE: But our understanding is, there is
24	still the possibility of a hearing.
25	still the possible.

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24	MR. CASE: But our understanding is, there is

still the possibility of a hearing.

1	Thank you.
2	JUDGE MOORE: Thank you. The case will stand
3	submitted.
4	(Whereupon, there being nothing further, at
5	4:05 p.m., the meeting of the Atomic Safety and Licensing
6	Appeal Board was concluded.)
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