

ORIGINAL
OFFICIAL TRANSCRIPT OF PROCEEDINGS

Agency: U.S. Nuclear Regulatory Commission

Title: Workshop on Quality Assurance in the
Medical Use of Byproduct Material

Docket No.

LOCATION: Rockville, Maryland

DATE: Monday, July 23, 1990

PAGES: 1 - 187

9011130121 901106
PDR ORG NREA
PNU

ANN RILEY & ASSOCIATES, LTD.

1612 K St. N.W., Suite 300

Washington, D.C. 20006

(202) 293-3950

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

UNITED STATES NUCLEAR REGULATORY COMMISSION

* * * * *

Workshop on Quality Assurance in the
Medical Use of Byproduct Material

* * * * *

Nuclear Regulatory Commission
Nicholson Land Building South
Conference Room 013
5650 Nicholson Lane
Rockville, Maryland

* * *

MONDAY, JULY 23, 1990

* * *

9:47 o'clock a.m.

1 PARTICIPANTS:

2

3

J. Telford, NRC

4

S. Bahadur, NRC

5

L. Camper, NRC

6

J. Piccone, NRC

7

D. Wiedeman, NRC

8

E. Kline, NRC

9

M. Lesar, NRC

10

M. Weber, NRC

11

R. Henkin, ACNP

12

N. Alazraki, SNM

13

W. Briner, SNM

14

V. Fedio, ACNP/SNM

15

S. Surrel, SNM

16

H. Karagiannis, NRC

17

K. Morris, ACNP/SNM

18

19

20

21

22

23

24

25

P R O C E E D I N G S

[9:47 a.m.]

1
2
3 MR. TELFORD: Welcome. I'm glad to see all of you
4 here today. We would like to have a roundtable discussion
5 with the representatives from the American College of
6 Nuclear Physicians and the Society of Nuclear Medicine.

7 We have a proposed agenda that we tried to work
8 out.

9 Would anybody like to make a modification to the
10 agenda? It could be that we are not successful in
11 completing all of the topics today, and if that's the case
12 we'd be willing to meet again.

13 Any suggestions for modifying the agenda?

14 MR. HENKIN: I suggest that we not treat the
15 agenda too rigidly and that we can skip around and do
16 whatever we like within it. Is that okay with you?

17 MR. TELFORD: Sure.

18 For the introductions, what I had in mind was for
19 people just to go around the table and to give their names
20 and their affiliation more or less for the record and kind
21 of to break the ice and let everybody get to know one
22 another just a little bit.

23 I suppose I should start. My name is John
24 Telford. I am the Section Chief of the Rulemaking Section
25 in the Regulation Development Branch, Division of Regulatory

1 Applications.

2 My job is to sort of be the team leader for the
3 folks who write the final rule and certainly was the leader
4 of the folks that wrote the proposed rule, so if you have
5 any questions about the intentions of what we were trying to
6 accomplish during our discussions of the proposed rule, then
7 please feel free to ask.

8 Why don't we go clockwise.

9 MR. CAMPFER: I'm Larry Camper. I am the Section
10 Leader of the Medical and Academic Section.

11 Our group is responsible for policy development,
12 technical guidance and what have you for the medical and
13 academic uses of regulatory materials that NRC regulates.

14 We are working closely with John's group in
15 developing the QA rule.

16 MR. WIEDEMAN: I am Darrel Wiedeman. I am the
17 Technical Assistant to the Director for the Division of
18 Radiation Safety and Safeguards in the NRC Region III
19 Office.

20 I am also part of the QA Site Team that is doing
21 the site evaluations.

22 MR. BRINER: I am Bill Briner. I am Chairman of
23 the Society of Nuclear Medicine's Committee on Government
24 Relations.

25 MS. ALAZRAKI: I am Naomi Alazraki. I am

1 President of the Society of Nuclear Medicine.

2 MR. HENKIN: Robert Henkin, President of the
3 American College of Nuclear Physicians.

4 MS. SURREL: Sharon Surrel. I am the Chairman of
5 the Government Relations Committee, a Tech Section of the
6 Society of Nuclear Medicine.

7 MS. FEDIO: I am Valerie Fedio. I am with the
8 Washington Office of the ACNP/SNM.

9 MR. KLINE: I am Ed Kline from Atlanta, the NRC
10 Regional Office there and I am one of the members of the
11 pilot team.

12 MS. PICCONE: My name is Josie Piccone. I am a
13 health physicist at NRC Region I. I am also a member of the
14 QA team.

15 MR. BRINER: Mr. Telford, maybe we'd like to know
16 who these folks back here are too.

17 MR. TELFORD: Certainly. Let's let them introduce
18 themselves.

19 MS. KARAGIANNIS: Harriet Karagiannis, health
20 physicist, AEOD/NRC.

21 MR. WEBER: Mike Weber, Office of the Chairman.

22 MR. LESAR: Mike Lesar, Office of Administration.

23 MR. BAHADUR: Sher Bahadur, Branch Chief for the
24 Regulation Development Branch, the branch that is
25 responsible for developing this issue.

1 MR. TELFORD: Okay. You mentioned that we'd like
2 to maybe skip around. Would you like to go with the second
3 item next?

4 MR. HENKIN: I think perhaps maybe we should have
5 some opening statements of what we are doing.

6 MR. TELFORD: Good idea.

7 MR. HENKIN: It's your meeting. Why don't you
8 start?

9 MR. TELFORD: Opening statements -- what would you
10 like me to --

11 MR. HENKIN: Why we're all here -- why are we all
12 here?

13 MR. TELFORD: We are all here to have a roundtable
14 discussion about the proposed rule, the reporting
15 requirements and the regulatory guide and to discuss the
16 aspects of the ACNP or SNP or JCAHO programs that you feel
17 are recommendable, that should be in such a proposed rule
18 for quality assurance or maybe in place of, whatever your
19 particular recommendation might be, but in general to have a
20 good understanding of what we are trying to accomplish and
21 how we would go about it and the recommendations that you
22 would make.

23 I look at this as certainly a two-way discussion
24 that we can understand each other's intentions and modes of
25 operation.

1 The way we're going about this, I feel it will be
2 educational from both sides or to both sides. I am looking
3 forward to having this discussion.

4 MR. HENKIN: I guess I will speak for ACNP. I
5 will not endeavor to speak for the Society for Nuclear
6 Medicine.

7 We are somewhat constrained, if you like, in this
8 discussion by the fact that there is an operative resolution
9 of the American College of Nuclear Physicians which requests
10 the NRC to withdraw this rule. The underlying assumption to
11 that resolution is that there is no need for the rule and
12 that it will in fact not affect the public health and safety
13 to have the rule or not have the rule at all.

14 In addition, we believe that the rule, proposed
15 rule, represents an intrusion into the practice of medicine
16 against the statements of principle that are formulated by
17 NRC with regard to intrusion into the practice of medicine.

18 We understand the rule to represent an effort to
19 reduce misadministrations and that to be its primary
20 endeavor. It may have secondary endeavors but that is its
21 primary endeavor.

22 In regard to that, we have asked before and in a
23 meeting with Chairman Carr were assured that the NRC would
24 in the future account separately for sealed and unsealed
25 source administrations because in fact there are entirely

1 different groups of people involved in the use of those
2 different materials.

3 Commissioner Curtis presented to Dr. Holmes, Dr.
4 Marcus and myself several years' worth of data on medical
5 misadministrations and asked for our input. When we
6 reviewed that data which I believe went back as far as 1985,
7 if memory serves me correctly, we discovered that the worst
8 year that we had were about four unsealed source
9 misadministrations and the best year was about two, so if
10 one says that the range is zero to six to be relatively
11 conservative, what we are talking about is a great deal of
12 time, effort and money being spent to produce a rule that
13 may affect at a maximum six patients nationwide per year out
14 of ten million administered doses.

15 That to us seems illogical.

16 In addition, in a situation in which funds for
17 medicine are becoming tighter, we have a Federal budget
18 deficit, a great deal of funds on both sides are being
19 expended to promote a rule that seems to have little if any
20 impact.

21 So, with that in mind, we think the first part of
22 the discussion ought to be whether or not such a rule is
23 necessary before we discuss whether or not what this rule
24 might contain, and we have yet to receive from anybody a
25 justification for this rule based upon a maximum of six

1 patients per year who would be affected nationwide.

2 MS. ALAZRAKI: On behalf of the Society of Nuclear
3 Medicine, I would like to say that basically the 12,000
4 physicians, scientists, technologists whom the Society
5 represents also feel that quality assurance practice and
6 implementation in the practice of nuclear medicine is
7 ongoing, has been ongoing for many years now with guidance
8 from the JCAHO and from organizations which do audits.

9 For example the American College of Nuclear
10 Physicians, to assure that the quality assurance programs
11 are accomplishing their stated goals, the JCAHO has about a
12 39-year history in quality assurance. It does nothing else,
13 just quality assurance.

14 It has developed over the years and evolved a
15 program which today I think most people agree is a fairly
16 good program, extremely comprehensive and for nuclear
17 medicine per se covers anything that NRC might be interested
18 in putting into its rule.

19 If you review the JCAHO site inspections, in
20 general nuclear medicine departments do quite well in
21 comparison with other medical services in hospitals, so we
22 feel that quality assurance is being very well practiced in
23 nuclear medicine services around the country. We are in
24 agreement with everything that Dr. Henkin just stated, and I
25 don't want to repeat it, about the misadministration

1 situation.

2 We also feel that there is no need for duplicative
3 quality assurance impositions on our practices.

4 What I might say is that it would seem reasonable
5 to us for NRC to be sure that all of its licensees are
6 indeed implementing a quality assurance program in line with
7 JCAHO or ACNP audits.

8 It might be reasonable for NRC to look into
9 whether there are any licensees who are not for one reason
10 or another operating under JCAHO or ACNP audit guidelines.

11 That is about the only thing that SNM can see is
12 relevant for NRC to do in the area of quality assurance.

13 MR. HENKIN: May I just make one addition? The
14 American College of Radiology also runs a practice audit
15 program.

16 MR. TELFORD: Two points to clarify: I assume
17 that your statements are relevant to nuclear medicine
18 diagnostics and nuclear medicine therapy?

19 MR. HENKIN: Correct.

20 MR. TELFORD: Your statements about the nuclear
21 area don't extend to teletherapy or brachytherapy?

22 MR. HENKIN: I am not qualified to comment on
23 teletherapy or brachytherapy.

24 MR. TELFORD: One other small point is that the
25 objective of the proposed rulemaking is to prevent

1 misadministrations, not reduce them. That's the --

2 MR. HENKIN: I think we ought to discuss that.

3 MR. TELFORD: Okay.

4 MR. HENKIN: I think we ought to discuss what it
5 is that one can do to prevent misadministrations and what it
6 is that you're proposing to do and how that will change
7 anything. I would like to hear how it will change what is
8 going on now.

9 MR. TELFORD: Well, we can pick that up whenever
10 you like. Is there an item on the agenda that that fits
11 with?

12 MR. HENKIN: I'm trying to understand the thinking
13 that goes into this rule that, first of all, perceives the
14 problem, and second of all, believes that it can be
15 corrected by regulation.

16 MR. BRINER: Let me speak to that point, too. We
17 have been asking for now for four or five years -- I expect
18 it's a sum total of that -- for some evidence that any kind
19 of rule or regulation that is apt to be promoted by the
20 Nuclear Regulatory Commission or any other regulatory body
21 and that sort of thing, is going to have any impact whatever
22 on quality assurance.

23 We also are quite cognizant that you're spending
24 money for this in a budget year that is a disaster for the
25 Federal Government. We're having a disastrous year, too, as

1 far as trying to contain health care costs, rather
2 unsuccessfully thus far. To me, it just doesn't make any
3 sense whatever to cause rather large expenditures of public
4 funds from the NRC standpoint and our own funds, in trying
5 to abide a regulation which is not going to be effective for
6 the purpose for which you state.

7 MR. TELFORD: I can think of two things that may
8 make it worthwhile to discuss this. We're both talking
9 about quality assurance, but I'm not sure that we're
10 communicating.

11 MR. BRINER: That's correct. We are not sure you
12 know what quality assurance in medical practice is or health
13 care administration is.

14 MR. TELFORD: Well, Captain Briner, you may be
15 right.

16 MR. BRINER: That's one admission I was waiting to
17 hear.

18 MR. TELFORD: Does everyone have a copy of this?
19 If we could turn to page 1449 of the proposed regulation,
20 and the particular section is 3535, the basic quality
21 assurance program. This is really the focus of what we're
22 trying to do. Now, let me tell you a few things that we're
23 trying to accomplish to --

24 It may be that we are using a term that we are
25 familiar with that brings up all sorts of connotations of

1 other activities of which we don't really have regulatory
2 force. But in Section 3535, the opening paragraph says that
3 we would like each licensee to have a quality assurance
4 program.

5 We would like that program to be designed to
6 prevent indirect costs of errors in medical use and that the
7 objective would be to provide high confidence that errors in
8 medical use would be prevented. Now, that may be just a
9 euphemism for misadministrations. I just mention that as --

10 MR. HENKIN: I don't know what else it could be.

11 MR. TELFORD: That is the basic gist, but the
12 heart of it is the 8 objectives that follow. What they
13 basically say is that, first of all, we would like a nuclear
14 physician to decide that this patient should get byproduct
15 material.

16 Second, we should issue a directive as to what the
17 dose --

18 MR. BRINER: You already have said that and that's
19 a regulation. You say that byproduct material shall be used
20 only under the direction and the order of a licensed
21 physician. Now, why and the world should you establish 3535
22 all over again to make that point, plus the fact that you
23 are not going to prevent errors.

24 MR. HENKIN: Let me even amplify on that. If
25 anything ever intrudes into the practice of medicine, 3535

1 does. Most of the rest of what you've got is relatively
2 benign until you get to 3535 in which you decide that a
3 prescription must be issued in which you decide how review
4 is going to be done for appropriateness.

5 Let me refer you to the Corpus Juris Secundum
6 which is the contemporary statement of American law as
7 derived from reported cases and legislation, Volume 70,
8 1987. This is under Physicians and Surgeons. "The practice
9 of medicine as ordinarily or popularly understood, has
10 relation to the art of preventing, curing or alleviating
11 disease or pain. It includes the diagnosing, treating,
12 operating or prescribing for any human disease, pain,
13 injury, deformity or physical condition. It also includes
14 the application and use of medicines and drugs for the
15 purpose of curing, mitigating or alleviating bodily
16 diseases, but it does not wholly depend upon the
17 administration of drugs.

18 Therefore, 3535 intrudes directly into the
19 practice of medicine as defined in law at the present time.

20 MR. TELFORD: You're focusing on the first
21 objective?

22 MR. HENKIN: I'm focusing on all of them; the
23 whole thing does.

24 MR. TELFORD: Okay. Should I proceed or are there
25 questions that I should answer?

1 MS. ALAZRAKI: Just to add to that a little bit,
2 the first one, if you want to focus on that, that's the
3 first thing we do in any quality assurance program under
4 JCAHO. We make sure that the study is appropriate to the
5 patient's condition. I mean, that's exactly, word for word,
6 practically --

7 MR. TELFORD: I was attempting to paint sort of a
8 neutral image of what we're trying to accomplish here with
9 3535. Shall I proceed, or are there questions that you want
10 me to answer?

11 MR. HENKIN: I would like you to explain why 3535
12 is not an intrusion into the practice of medicine, because
13 if it is, it's directly in contradiction to your statement
14 of principles; that you won't intrude into the practice of
15 medicine.

16 MR. TELFORD: I think you're alluding to the 1979
17 Commission Policy Statement. Then it goes far before that.
18 It is not our intention to interfere with the practice of
19 medicine. Our intention is to make sure that whatever is
20 directed by the nuclear physician is administered to the
21 patient. We have that narrow focus.

22 MR. HENKIN: That is the practice of medicine.

23 MR. TELFORD: Okay, if that's the practice of
24 medicine, then that's what we're -- that's our focus, is
25 just that. After the authorized user, nuclear physician,

1 has given a directive as to what is to happen, if that
2 happens, 3535 is happy. If that's an intrusion into
3 medicine, so be it.

4 MR. HENKIN: 3535 prescribes what is to happen.
5 It says "ensure that", "ensure, ensure, ensure and
6 ensure..." That's a "thou shalt." Okay, that says that I
7 must practice according to 3535. That means that the
8 practice of medicine is not in my control but in your
9 control.

10 MR. TELFORD: Excuse me, Dr. Henkin. There's a
11 very basic misunderstanding that you have. 3535 is a
12 performance-based quality assurance program. These are 8
13 objectives -- these are merely 8 good things to do that each
14 licensee would design their program to meet these
15 objectives. You can do that any way you like.

16 MR. HENKIN: No, sir, I don't agree with you,
17 because when you take 3535 and turn it around and you
18 inspect against 3535, these become cite-able things, if you
19 don't do them. If you have not satisfied 3535, you are then
20 open to a citation for not having an adequate quality
21 assurance program.

22 Therefore, they become a standard of practice.

23 MR. TELFORD: Not quite. 3535 is a performance
24 based rule. It says, here, 8 good things to do. Each
25 license would then propose their own program for their own

1 facility unique setting so that they could meet the
2 objectives here in any way that they chose to.

3 Now, what happens after that? A patient comes in
4 -- you're from an agreement state and so are you Dr.
5 Alazraki and so are you, Captain, Briner --

6 MR. BRINER: Half of my practice goes on to the VA
7 medical center, so I'm under --

8 MR. HENKIN: Mine go there, too.

9 MR. TELFORD: For the VA hospitals, then you know
10 that the licensee sends in an application that says how they
11 are likely to meet such a ruling. The application is
12 finally approved and it's really that document which becomes
13 your license conditions against which you operate.

14 In that document, you have defined how you will
15 meet the objectives of this rule. It's not --

16 MR. HENKIN: So what you're actually telling me is
17 that the license becomes the conditions of the practice of
18 medicine, which is exactly what we're saying. The license
19 cannot prescribe the practice of medicine. It can only
20 prescribe the safe handling of regulated materials.

21 It cannot prescribe the practice of medicine.

22 MR. BRINER: Can we turn this around a little bit.

23 MR. TELFORD: Excuse me. Let's -- there's a basic
24 misunderstanding here. You're talking about the practice of
25 medicine. Now, if you disregard the words that are here,

1 just for a moment, and let's talk about the intentions of
2 what's in 3535.

3 First of all, it says, let's make sure that the
4 right directive is given. Let's -- ideally, let's write it
5 down. Let's make sure that those that are involved
6 understand what's to be done. Let's make sure that any
7 planing is in accordance with that directive that the
8 nuclear physician has given. Let's make sure that we get
9 the right patient, and then let's finally make sure that the
10 byproduct material administered is what was in the
11 directive.

12 That's the heart and soul of all of this.

13 MR. HENKIN: Which does not exit in regulation.

14 MR. TELFORD: If you want to allude that to being
15 the practice of medicine --

16 MR. HENKIN: It is.

17 MR. TELFORD: Okay, but that's what this is about.
18 Now, Dr. Briner?

19 MR. BRINER: There's somebody who doesn't
20 understand what somebody's saying. I'll turn that right
21 around; you don't understand what we're saying. We're
22 saying that you, NRC, have no business in this quality
23 assurance realm of interference because there are
24 professionals out there doing that very thing and people who
25 know what they're doing and are doing an excellent job with

1 doing that. Now, why try to duplicate -- rather poorly, I
2 must say -- their efforts? Why should you do it? You've
3 not ever explained to me, why should the NRC be getting into
4 this business?

5 MR. TELFORD: Well, it is rather basic. We have a
6 regulatory responsibility to ensure adequate safety of the
7 public, and that includes patients.

8 MR. BRINER: You have known shown that the public
9 has been damaged.

10 MR. HENKIN: What is the risk, what is the hazard
11 you're protecting against? What is the damage that you're
12 proposing to remedy?

13 MS. ALAZRAKI: And what are you going to do beyond
14 what's already being done with this? Everything that's here
15 is already being done.

16 MR. TELFORD: That's an interesting discussion and
17 I would like to get into that at some point on the agenda.

18 MR. BRINER: Let's see how you answer that
19 question, Mr. Telford. Why is it that the Nuclear
20 Regulatory Commission really wants to get into this, you
21 know, knowing full well that you disagree that the JCAHO is,
22 or is it you're feeling that they're an ineffective
23 organization? Is that what you're saying, they're not doing
24 their job?

25 MR. TELFORD: In 1979, the Commission felt --

1 MR. BRINER: Please answer the question. Are you
2 saying, by issuing this that they are not doing their jobs
3 effectively?

4 MR. TELFORD: That's a tough question.

5 MR. BRINER: Because you are not saying, then
6 we're always going to --

7 MR. TELFORD: We are saying that, first of all,
8 the JCAHO is a voluntary organization.

9 MR. BRINER: We'll get into that.

10 MR. HENKIN: We will talk about that later. It's
11 like the Army being voluntary.

12 MR. TELFORD: So, in order to carry out the
13 regulatory responsibilities of the Commission, the
14 Commission needs a regulation that is mandatory for all
15 licensees. Now, what's in that regulation is what we'd all
16 like to discuss.

17 You're really basically asking a couple of
18 questions. One is that, what's the problem that we're
19 trying to fix, and secondly, why do we think we have the --

20 MR. BRINER: Can it be fixable by what you're
21 suggesting?

22 MR. HENKIN: Is it fixable by regulation, is the
23 second part of that question.

24 MR. TELFORD: We think so.

25 MR. HENKIN: There's a basic rule that goes, one

1 cannot legislate against stupidity. Do you have any
2 evidence to indicate that zero to six misadministrations per
3 year result from anything but stupidity?

4 MS. ALAZRAKI: Accidents.

5 MR. TELFORD: Before we developed this proposed
6 regulation, we looked at the misadministrations in the
7 therapy range from 1980 through '88, then we developed this
8 proposed regulation. At the time, JCAHO didn't have quite
9 the program they have today, as evidenced by these new
10 manuals that have just come out. At the time, the American
11 College of Radiology was developing their model quality
12 assurance program. There have probably been advances that
13 various societies have made in the last two years.

14 We're interested in finding out what are those
15 good points, but that's really not the question that you're
16 asking. You're asking -- when we look at the
17 misadministrations, you're asking, what do we see, what are
18 we trying to prevent?

19 MR. BRINER: That can be got out by this sort of
20 thing. It's a very important second question if you're part
21 of that question.

22 MR. CAMPER: Let me point out something to you, if
23 I may, before you go into that, John. When you say that
24 these misadministrations occur because of stupidity, we look
25 at the misadministrations that occur and we don't come to

1 the conclusion that they're being caused by stupidity. In
2 may cases, they're being caused by a lack of procedures or a
3 breakdown in procedures. In many cases, there are
4 procedures in place; they're simply not being followed.

5 The question that we have is, why one looks at
6 JCAH and various procedures that are out that practicing
7 medicine, we still see misadministrations current. Now your
8 response to that would be, well, misadministrations are
9 insignificant. They're such a small number, the frequency
10 of occurrence is so insignificant, that we shouldn't be
11 bothered about it. Or you might argue that NRC has no
12 business being in this area.

13 The question I would come back to you with is, if
14 indeed there are procedures out that and if indeed there are
15 still breakdowns, they're not being caused by stupidity.
16 They're being caused by procedural error. What should we do
17 as a regulatory agency that has responsibility in this area,
18 what should we do?

19 MR. BRINER: Procedural error or stupidity,
20 whatever, the fact remains that you are not going to correct
21 that by these kinds of regulations.

22 MR. HENKIN: In fact, if the proper procedures
23 already exist and people do not follow them, there is no
24 regulation in the world that is going to cause them to be
25 followed.

1 When errors occur, they occur for several reasons.
2 One of them is fatigue. One of them is overload. People
3 are overworked. Another series, as your own evidence
4 documents, of patient contributions to the era, where the
5 patient identifies himself as the wrong patient, your
6 regulation is never going to cure that.

7 If the money spent on developing this regulation
8 and attempting to implement it or spent and directed toward
9 increasing staff available to nuclear medicine, we'd have a
10 greater impact on misadministrations than any regulation
11 ever would because our people are stretched so thin and
12 they're fatigued.

13 I have people that are working 14 hours a day
14 because I can't have enough staff. Those people are more
15 prone to error. A regulation such as this would not prevent
16 an error of an over-tired person.

17 MR. WIEDEMAN: In your examples, because of
18 misadministration, where does misunderstanding fall in?
19 Many times, you know, misadministrations --

20 MR. HENKIN: Miscommunication or misunderstanding?

21 MR. WIEDEMAN: Both. The ambiguous, sometimes
22 redundant, terminology that's used in nuclear medicine.

23 MR. HENKIN: The regulation doesn't address that,
24 first of all. What does happen from time to time is a
25 referring physician will misorder an examination. The

1 referring, requesting physician will order a therapy when,
2 in fact, he doesn't really mean a therapeutic procedure.
3 And that, under JCAHO standards, and under most operating
4 standards, is caught routinely. Nuclear medicine
5 departments catch that everyday around the country in their
6 review of procedures. It is very rare for one of these to
7 slip through the system.

8 The number of times per day that procedures are
9 questioned in a department such as mine or a department such
10 as Naomi's -- we're on the phone with people all day long
11 saying, what did you mean, what did you want, what did you
12 really order. That goes on as a routine basis because we
13 have to satisfy another standard.

14 We have to satisfy an appropriateness standard
15 that comes out of JCAHO that we are doing something
16 appropriate to the patient's medical condition and to us,
17 that's a greater concern than satisfying your standard
18 because they're going to come around that and we have to
19 have in place screens, monitors, to show that we are
20 providing appropriate medical service to patients and that
21 we're not doing tests that aren't indicated and we're not
22 doing tests that are inappropriate for the medical
23 condition.

24 So, as part of that, there exists a system to
25 screen for all of these things already and therapeutic

1 procedures fall into that system because they are procedure.
2 In fact, the consciousness of nuclear medicine people, of
3 therapeutic procedures is so high that most of us require a
4 direct conversation already with the referring physician.
5 We won't take an intermediary order.

6 In our lab, for example, the physician ordering
7 the procedure must speak directly to a nuclear medicine
8 physician if it's a therapeutic procedure and discuss with
9 him why he wants it.

10 MS. ALAZRAKI: I can tell you, in our department,
11 I can give you a monthly accounting of exactly how many
12 inappropriate orders we got and what they were. Its in our
13 minutes for JCAHO purposes. This is one of the things which
14 is basic to the practice of nuclear medicine. It really is
15 practice of medicine, that type of a thing.

16 MR. TELFORD: So, you're saying the first three
17 objectives were already met by your program.

18 MS. ALAZRAKI: Yes. And documented. Just to add
19 a duplicative administrative burden to redocument this in
20 terminology and inform that for NRC seems ridiculous.

21 MR. TELFORD: Let's assume that we could clean up
22 the terminology. I think you're making an assumption that
23 this is duplicative. Because this is a performance-based
24 rule, you could in fact propose as part of your application
25 to do exactly what you just said, that you're already doing

1 it for JCAHO and meet these three objectives.

2 MR. BRINER: Could we turn that around that a
3 little bit. In Dr. Alazraki's opening statement she made a
4 remark that surprised even me. She surprises me every day,
5 but I think she said something to the effect that, even if
6 you want to go ahead in your regs and say a quality
7 assurance program is in effect at this licensee, and let it
8 go at that, that's within your purview, but don't prescribe
9 what you do in that quality assurance program.

10 MS. ALAZRAKI: I think it would be perfectly
11 reasonable for NRC to note what quality assurance plan the
12 licensee is operating under and to note that that's an
13 acceptable plan from NRC's point of view, and to identify
14 those who don't operate under JCAHO or any of the practice
15 audit plans.

16 MR. BRINER: We're having a rare moment when I
17 would disagree with what she said. Remember when you say
18 that, if you modify that plan after you've made such a
19 statement, you've got to let them know and get an approval
20 from them to do it.

21 MS. ALAZRAKI: They would have to recognize the
22 authority of JCAHO to regulate that.

23 MR. HENKIN: That's correct. Essentially, they
24 would have to grant the JCAHO legal status.

25 MS. ALAZRAKI: Exactly.

1 MR. TELFORD: Excuse me. Could we go off the
2 record for a minute.

3 [Discussion off the record.]

4 MR. TELFORD: Back on the record.

5 MS. ALAZRAKI: We're on the issue of whether or
6 not NRC can recognize JCAHO or any of the operative
7 verbalizations in terms of if they are quality-assurance
8 activities.

9 MR. TELFORD: I think there are a couple of
10 alternatives there. I mean assuming that we could have a
11 discussion of exactly what the JCH recommends, kind of like
12 we have started to have, that basically we feel the first
13 three objectives have already been met. We could find out
14 exactly, of the interest that we have, how many of those are
15 already being met by JCH, then assuming something could be
16 worked out, then I can think of a couple of alternatives.

17 MR. HENKIN: Let's do the following: Let's say
18 that we do not at the moment drop our objections to this
19 rule but are willing to discuss with you what it is JCAHO
20 does outside the view of this rule. Okay?

21 MR. TELFORD: Sure.

22 MS. ALAZRAKI: Okay.

23 MR. TELFORD: I think there is still a question in
24 my mind about what are the problems we see.

25 MR. HENKIN: Having read the reports from

1 Commissioner Curtis, I cannot see or imagine how anything in
2 this rule would have changed any of those instances over the
3 past 5 years. Okay? There is just nothing that I see that
4 you've done here that would have made a bit of difference in
5 the documents that Commissioner Curtis gave me. Now, maybe
6 in teletherapy or brachytherapy -- I have no idea -- but not
7 in nuclear medicine. It wouldn't have changed the outcome
8 of one of those procedures.

9 Where somebody picks up the wrong vial of
10 material, thinking it is the correct vial of material, and
11 mis-administers that material is not going to be changed by
12 your regulation, because he believes he has got the right
13 material and he followed procedures.

14 MS. SURREL: It's a human error.

15 MR. TELFORD: I've got some cases of
16 misadministration here that we can discuss. These are
17 teletherapy, brachytherapy, and nuclear medicine.

18 Let me ask your indulgence, because while you can
19 say we're only interested in nuclear medicine, we cannot do
20 that. We have to say we are trying to put in a place a
21 program.

22 MR. HENKIN: Well, I think you could do that by
23 spreading them into sealed and unsealed sources.

24 MR. TELFORD: That's a procedural matter. What
25 I'm talking about is I would like you to understand what we

1 see from our point of view as regulators trying to assure
2 adequate protection of the public from a national
3 perspective.

4 MR. CAMPER: Let me add to that, too.

5 It easier for you to say, as practicing nuclear
6 medicine physicians, let us focus only upon nuclear
7 medicine, and we understand that. But we have a larger area
8 of responsibility.

9 It's very interesting. As I read through all the
10 documents, over the weekend, that accompanied Dr. Marcus'
11 summary of the comments that were received in the public-
12 comment period, there were a number of reoccurring themes.
13 One of them that I was struck by was that, as one goes and
14 looks at the various institutions of differing size
15 throughout the United States, there are varying degrees and
16 degradation of quality assurance in these institutions, and
17 in places where there is highly-sophisticated medicine being
18 practiced, at t' . Dukes and UCLAs and Loyolas, etcetera,
19 there is a level of quality assurance, but it is not the
20 same level that's occurring in some of the community
21 hospitals.

22 MR. HENKIN: But this is a misunderstanding on
23 part, too, and that is the type of procedure we
24 tice in a Duke, Loyola, Emory situation is different
25 than what they practice in a community hospital. The number

1 of therapeutic iodine procedures in most community hospitals
2 is nil.

3 MS. ALAZRAKI: Very small.

4 MR. HENKIN: Okay? Very, very low compared to a
5 major institution, so that you're talking about a level of
6 practice that's entirely different, as well. You're talking
7 about liver scans, bone scans, brain scans, and an
8 occasional, once-a-year therapy patient, perhaps. There are
9 exceptions to that rule, but they are some of the better
10 community hospitals that are, in some respects, comparable
11 to some of the university hospitals, and they have the
12 procedures in place to do that. But when you talk about
13 that, I think you have to realize that the level of quality
14 assurance recognized by JCAHO is appropriate to the
15 institution that it operates in. It's a local environmental
16 question. It does not prescribe, across the board, the same
17 thing for everybody, and in fact, JCAHO has recognized that
18 by even using different inspection teams for academic
19 hospitals and for non-academic hospitals, realizing they
20 hold them to a different standard.

21 MR. TELFORD: That's why we have a performance-
22 based rule.

23 MS. ALAZRAKI: Well, it took JCAHO a long time to
24 evolve into --

25 MR. HENKIN: Twenty years.

1 MS. ALAZRAKI: Twenty years to come up with these
2 differences and these nuances in quality assurance. They
3 are quality assurance experts; you are not.

4 MR. TELFORD: Would you look at it for at least
5 approaching it as a performance-based rule, so that each
6 facility can tailor their rule to meet the facility needs?

7 MR. HENKIN: I don't believe it's truly
8 performance-based because of the way you listed your eight
9 criteria. Performance-based would say you must develop a
10 rule to assure that there's appropriate operations at your
11 institution, but you've laid out eight things they must have
12 in that performance-based rule. The sort of removes it from
13 the category of a performance-based rule. It's a sort of
14 hybrid.

15 MR. TELFORD: I get half a point?

16 MR. HENKIN: Half a point.

17 MR. TELFORD: All right.

18 MR. HENKIN: No more.

19 MR. BRINER: Just so the rest of the people know
20 who the most recent arrival is, Kris Morris is Director of
21 the ACNP SNM Washington office.

22 Kris, glad you made it.

23 [Slide.]

24 MR. TELFORD: What I'd like to do refer you to the
25 current requirements that are in 10 CFR, go through some

1 recent misadministrations, and tell you some of the reasons
2 why we think we have a need for a solution to the problem.

3 [Slide.]

4 MR. TELFORD: Can everybody see these?

5 MR. BRINER: I'll think about them when I go to
6 bed at night.

7 MR. TELFORD: As of April 1st of this year, the 29
8 agreement states are now required, as a matter of
9 accountability, to report misadministrations. Prior to that
10 date, they were not required to report these. These are
11 basically, as you know, six mistakes that you can make, and
12 if you make one of these mistakes, you're required to
13 report. That's all we currently have is a reporting
14 requirements.

15 So, this is one is for any pharmaceutical or
16 irradiation other than the one intended; this is to the
17 wrong patient, number two. Number three is via route of
18 administration other than was intended. Number four is a
19 diagnostic misadministration, where the administered dose
20 differs from what was prescribed by 50 percent. Number five
21 is a therapy by radiopharmaceutical such that the
22 administered dose is different than prescribed by 10
23 percent. And number six is meant to capture teletherapy as
24 well as brachytherapy, and that's where the administered
25 dose is 10 percent different from what was prescribed.

1 Any points of clarity?

2 MR. HENKIN: No, except that we're not really
3 prepared to discuss the last one.

4 [Slide.]

5 MR. TELFORD: First of all, I beg your indulgence
6 on several teletherapy and brachytherapy misadministrations.
7 The primary reason, from your point of view, could be Mr.
8 Camper's point that sometimes you see -- it was Mr.
9 Wiedeman's point, as well. Sometimes you see a breakdown in
10 what apparently looks like a breakdown in procedures or a
11 misunderstanding of what was supposed to be done.

12 This happened in Cumberland, Maryland. The nature
13 of the misadministration was that 33 patients received the
14 wrong dose. The problem was that when they changed the
15 cobalt source, they forgot to tell the computer program of
16 the new source information, and as a consequence, 33
17 patients got overdosed, and the actions taken to prevent was
18 that the licensee is now in an over-check procedure, as well
19 as there has been a change in the physicist.

20 MR. HENKIN: May I ask you -- since I don't know
21 anything about this, I can ask a dumb question. Were any of
22 those patients injured? Have any of them reported any
23 injury?

24 MR. TELFORD: I believe in the details of this
25 report, there was some erythema, but I don't think --

1 MR. HENKIN: They got sunburned?

2 MR. TELFORD: These 33 patients were --

3 MR. HENKIN: My limited understanding of
4 radiotherapy is that most patients, including my father, who
5 underwent radiotherapy at the prescribed dose, gets local
6 erythema. So, what you're telling me is that I can't
7 discuss the merits of the case. All I want to know is was
8 anybody injured?

9 MR. TELFORD: Well, I apologize. I cannot answer
10 your question, because there were a total of 33 patients
11 involved here, and their amount of overdose was in
12 proportion to the dose they received.

13 MR. HENKIN: So, we just don't know if anybody was
14 injured.

15 MR. TELFORD: I don't.

16 MR. HENKIN: Well, then we, as a group, don't.

17 [Slide.]

18 MR. TELFORD: This happened in March of '89, and
19 in May is a teletherapy misadministration. The patient was
20 administered 100 rads to the brain instead of the floor of
21 the mouth. This is the wrong site for the kind of problem.
22 The cause is that the names and appearances and even the
23 planning pictures of the two elderly patients were
24 remarkably similar, and the patient requiring the treatment
25 to the lower palate was administered the brain dose instead.

1 In this case, the patient got 100 rads to the
2 wrong location that the patient didn't need. The actions
3 take to prevent recurrence was that we now have procedures
4 which would require that each patient's identify be verified
5 by a photograph and oral communication or positive
6 identification by a second person.

7 Questions?

8 MR. HENKIN: Again, I'm fascinated. These are
9 absolutely fascinating things to look at the cure. The cure
10 is positive identification by a second person. Who might
11 that be?

12 MR. TELFORD: Well, as long as their procedure
13 works, it could be a technician.

14 MR. HENKIN: Well, sure. And that, to me, is as
15 worthless as anything else, because you have a busy hospital
16 setting and you have people coming down from the nursing
17 floors. Presumably, the nurse on the floor knows the
18 patient better than anybody else. Most of the time,
19 nowadays, they don't know the patient very well at all.

20 So, what you've done is impose -- they have
21 imposed -- to satisfy you, they have created a requirement
22 that has no meaning.

23 MR. TELFORD: This procedure was their choice.

24 MR. HENKIN: Oh, I no, because they had to do
25 something to make you happy.

1 MR. CAMPER: Well, their previous procedure
2 obviously didn't work.

3 MR. HENKIN: This doesn't guarantee that it won't
4 happen again.

5 MS. ALAZRAKI: As a matter of fact, even in
6 diagnostic administrations of radiopharmaceuticals, which
7 again is different from what you are presenting here, since
8 we don't deal with the sealed-source administration of
9 radiation, but in administering radiopharmaceuticals, even
10 diagnostic doses, we have that type of a routine of two
11 people checking.

12 MR. TELFORD: That's good. We will get to some
13 nuclear medicine cases in a minute.

14 [Slide.]

15 MR. TELFORD: This happened in March of '89 in
16 Indiana. The patient got 300 rads to 9 sites on the left
17 hip and groin, which should have been to the right hip and
18 groin.

19 Causes were there was the patient -- and that may
20 not be the correct word -- maybe it was a misunderstanding.
21 But that's what's among the licensees technologies.

22 Probable cause is you get an extra 2700 rads to
23 the wrong hip and groin. And the action taken was they
24 initiated new procedures to verify treatment cycle.

25 Questions?

1 MS. ALAZRAKI: Again this is out of our frame.
2 That type of an accident happens in surgery all the time.
3 Of course, the consequences there are much more grave. But
4 the court system takes care.

5 MR. HENKIN: I can -- I can site a case of one our
6 surgeons who did the wrong-sided carotid endarterectomy,
7 okay; which I think is probably more serious error than any
8 of the errors you're going to present today; and wound up
9 not getting sued for it because he had good relations with
10 the patient.

11 MR. TELFORD: Off the record, why did he only do
12 one side -- I had both.

13 Doctors do recognize that surgery is not our
14 regulatory responsibility.

15 MS. ALAZRAKI: Wait a minute.

16 [Laughter.]

17 MR. HENKIN: We're trying to set -- we're trying
18 to set for you an environment that says, are you trying to
19 correct something -- there are grievous errors that occur
20 from time to time in medicine, because of the people
21 involved in medicine, and that not -- everybody recognizes
22 that those errors are not all preventable, because they're
23 human errors.

24 And we're trying to set for you a relative scale.
25 You've seemed to have developed the idea that these

1 therapeutic misadministrations represent a severe public
2 hazard, and that you need to take regulatory action to
3 correct that hazard to the public.

4 We are trying to put this into the perspective of
5 the practice of medicine and where these fall as a hazard
6 within the practice of medicine, so that you have a frame of
7 reference, as to what it is we're dealing with and how much
8 expenditure of public and institutional funds are
9 appropriate in this setting.

10 MR. TELFORD: Two comments, if I may?

11 As far as our regulatory responsibility goes for
12 the problem -- it needs to be a problem or a potential
13 problem, for us to become involved.

14 If -- I like your idea of setting a perspective
15 and I would point out that the proposed rule says it's --
16 it's a performance-based rule and it says, "designed to
17 prevent."

18 Now, if you wanted to propose a certain threshold,
19 like -- like an acceptable rate. Like, for instance, the
20 Commission, in the area of reactor safety has said -- almost
21 how safe the plant should be, with the following -- which
22 includes the following statements, not necessarily limited
23 to, but that the cause of death -- or excuse me, probability
24 of a death, due to this reactor, should be a tenth of a
25 percent of all the other causes of death. And the

1 probability of getting cancer should be a tenth of a percent
2 of all the sources of cancer -- so it would be --

3 MR. HENKIN: I find that -- fine, we're below
4 that.

5 MR. TELFORD: Well, if you wanted to propose that
6 that should be the quantitative design objective, okay,
7 we'll listen. But, please keep in mind, the rule is just
8 designed to prevent. And we have -- have a qualitative
9 criteria.

10 If you want to say quantitatively, that's okay, we
11 would like to entertain that discussion.

12 Shall I --- shall I go on?

13 MR. HENKIN: Yes, please.

14 MR. TELFORD: Are we missing the point?

15 MR. HENKIN: No. I'm not sure what you just said,
16 but go on?

17 MR. BRINER: How did we get into that suggestion?
18 We want it quantitative. No way.

19 [Laughter.]

20 MR. HENKIN: That's not what we're saying.

21 MR. TELFORD: You said you wanted to put it into
22 perspective -- that there's a certain rate of occurrence --
23 you know, I'm reading between the lines here, that ought to
24 be acceptable.

25 MR. HENKIN: Okay, fine. If we're going to do

1 that, we should put it into the perspective of the rate of
2 misadministration of all pharmaceuticals in this country.

3 That rate is approximately 20 percent for
4 nonradioactive drugs. The rate for radiopharmaceuticals is
5 about .6 percent, if I remember correctly. That is, in fact
6 -- we would be glad to take that as a -- as a relationship
7 that we can't exceed the rate of misadministration for all
8 pharmaceuticals in the country, and use that one as a
9 standard.

10 MR. TELFORD: Unfortunately, we don't have the
11 responsibility for all pharmaceuticals, we only have
12 radiopharmaceuticals.

13 MR. HENKIN: You just asked me to put it into
14 something that -- there -- there's a system for which the
15 data exists on the rate of misadministration of all
16 nonradioactive drugs for hospital in-patients. It is about
17 20 percent misadministration, using the definition that
18 differs only slightly from yours, in that they include time.
19 if you don't administer the drug at the correct time, it is
20 misadministered.

21 In a hospital in-patient as well, that number is
22 20 percent -- between five and 20 percent, depending on the
23 various surveys you read and the skill of the hospital
24 populations on those surveys.

25 In that case, why not say that we should be the

1 same as all pharmaceutical administrators, who are: registered
2 nurses, licensed pharmacists and physicians.

3 You're holding us to a standard that is not a
4 standard that is part of the practice of medicine.

5 MR. CAMPER: Well the -- the problem is, of
6 course, we don't regulate those other areas; and for that
7 matter, we don't know whether 20 percent is acceptable or
8 not.

9 MP. HENKIN: That's a different issue. But, we're
10 talking about what goes on and whether we're being held to a
11 standard that is different from the rest of the practice of
12 medicine.

13 To hold us to a reactor safety standard makes no
14 sense.

15 MR. TELFORD: Excuse me, I didn't mean to simply
16 reply that we were going to do any of that, I was merely
17 fishing for suggestions, to see if you wanted to -- if you
18 wanted to put things in perspective and propose a
19 quantitative standard, I'm just merely saying that we're
20 open for discussion.

21 MR. BRINER: There's one other difference between
22 what you're talking about -- the 20 percent rate too; and
23 that is that in the majority of those cases, there is
24 demonstrable harm to the patient. And his note extend to a
25 majority --

1 MR. HENKIN: We are talking about drugs that
2 include: chemotherapeutic agents, cardiac agents in that 20
3 percent which, if misadministered can kill the patient.

4 We do not have that potential in general and
5 nuclear medicine. There hasn't been a death from an
6 administered pharmaceutical as a misadministration in 25 or
7 30 years now. So, that -- we've done a damn good job.

8 [Slide.]

9 MR. TELFORD: And we agree. We think you're -- we
10 think the whole industry's doing a very good job.

11 MR. HENKIN: May I go on?

12 MR. TELFORD: In July of '89 in Massachusetts, a
13 patient was administered a dose to the spine, instead of to
14 the right lung. The cause of misadministration was the
15 technology failed to confirm the patient's identify, even
16 though there was an available.

17 In addition, the technologist failed to recognize
18 the absence of any treatment positioning tattoos, which
19 would have indicated that that was the wrong site.

20 The consequence was that the patient received an
21 unattended 250 rads to the spine. The actions taken to
22 prevent recurrence was that the licensees instituted
23 procedures which require that each patient's identity be
24 verified by a photograph. And in questionable cases, the
25 physician will verify the patients prior to treatment.

1 MR. HENKIN: Does that make any sense to you,
2 John, that they apparently had a -- a procedure in place,
3 with a photograph -- nobody bothered to look at the
4 photograph. Their cure for the problem is to tell people to
5 look at the photograph.

6 MS. SURREL: So, you've just proven that you have
7 a procedure in place and by human error they did not follow
8 it.

9 MR. TELFORD: You've just proven that you've got -
10 - that you can the procedure there and if it doesn't work --

11 MS. SURREL: So how, you know, in dealing with --
12 with this particular rule -- how can you put another
13 procedure in place and eliminate the mistakes that have been
14 made.

15 MR. TELFORD: This rule doesn't put any procedures
16 in place. This proposed rule says "each licensee should
17 have a quality assurance program.

18 The procedure that -- procedures that are put into
19 place are up to the licensee to meet their problems. And
20 this was -- this licensees choice to do this procedure.

21 MR. HENKIN: But John, listen. The licensee had
22 in place, originally --

23 MR. TELFORD: But, wait a minute -- you're --
24 you're asking, let's see. You're changing the subject
25 really, because this is -- this is not under the conditions

1 of the proposed rule; this is under the current reporting
2 requirements.

3 So, all the licensee has to do here is report.
4 Now, when the NRC finds out about it, it naturally asks,
5 what are you going to do to prevent recurrence.

6 So, all I'm showing to you is that we have looked
7 at the recent misadministrations. We're attempting to find
8 the cause here -- what's the problem and what are the set of
9 problems to be solved.

10 Based on this, I don't think you can draw an
11 inference that these rules would prescribe this same sort of
12 action.

13 MR. HENKIN: No. I can draw --

14 MS. SURREL: Then how are these rules going to
15 correct those sorts of problems?

16 MR. TELFORD: That --

17 MR. HENKIN: This licensee obviously had something
18 in place, with -- included a photograph. Okay. The person
19 didn't follow procedure.

20 The quality assurance program they had in place,
21 likely would have satisfied your draft regulation.

22 What you had is somebody who broke his
23 institutional rules. Okay. Your program won't prevent them
24 from breaking institutional rules.

25 I have institutional rules. Any time we've had a

1 diagnostic misadminsistration, it has always come down to
2 the same thing -- somebody broke the rules. Not that they
3 didn't know them. They short circuited the system some how.

4 MS. ALAZRAKI: The last time that we had a -- a
5 misadministration is a similar situation to this, only in a
6 diagnostic setting.

7 The technologist had just found out that her
8 father had cancer, and didn't want to go home, wanted to
9 stay at work. And that happened. That's human error.

10 I mean, people are going to be upset and
11 distraught and, for whatever circumstance, and those things
12 are going to happen. Now, you might want to say, no one who
13 is not mentally fit should be doing this kind of work, but
14 that's --

15 MR. HENKIN: We would be in big trouble.

16 MR. TELFORD: The NRC can't dictate who and who
17 should not work.

18 MS. ALAZRAKI: Those things -- those things happen
19 and nobody may know.

20 MR. HENKIN: Could please skip some of these
21 teletherapy demonstrations. We really -- I mean, we can sit
22 here and chat about it, but we don't know anything about it.

23 MS. ALAZRAKI: They're not relevant to us.

24 MR. TELFORD: I thought you were having a very
25 good time listening to the actions to prevent recurrence.

1 MR. HENKIN: If you want to do that, we can do
2 that, but it doesn't seem to make much sense to us to do
3 that.

4 [Slide.]

5 MR. TELFORD: What I was really endeavoring to do
6 is to show you that -- the kinds of problems we see, the
7 causes we see and -- and the actions that the licensees are
8 suggesting that may be appropriate to fix these problems --
9 these causes, and that we have tried to learn from these --
10 misadministrations; and tried to incorporate those into the
11 proposed regulation.

12 MR. HENKIN: Can I -- can I comment that the more
13 you require people to note things and the more that you
14 require them to initial things -- the end result of all of
15 that is generally noncompliance with your rules; rather than
16 any effective outcome. Okay.

17 That what you do and what has been asserted may be
18 the outcome of implementing this rule, is to simply create
19 more noncompliance out there in a short-staff situation, or
20 more nonsense, where people go back once a month and initial
21 all of them.

22 You know, that -- that doesn't -- that isn't going
23 to fix the nonexistent problem.

24 MR. CAMPER: That was something else that came up.
25 The problem we have is that if licensees choose not to

1 follow the regulations or choose not to follow license
2 conditions --

3 MR. HENKIN: Or are unable to.

4 MR. CAMPER: -- or are unable to, as a regulatory
5 agency that is charged with public health and safety, that
6 almost falls on deaf ears. We can't do anything about the
7 fact that licensees will argue that we can't comply, or we
8 don't comply, or we don't choose to comply. We have an
9 inspection mechanism that deals with that.

10 MR. HENKIN: Your rulemaking, in effect, has a
11 good deal of the force of law.

12 Now, there is a principle in law that says that an
13 unenforceable law should not be passed, basically. You
14 should not make an unenforceable law.

15 If you pass a regulation which the majority of
16 people cannot comply with, then you have passed a regulation
17 that is essentially an unenforceable law. And the wisdom of
18 that regulation must be questioned.

19 MR. CAMPER: So then you are saying that on the
20 proposed rule, that the majority cannot comply?

21 MR. HENKIN: I don't know that. I'm saying that
22 there is a strong suspicion on the part of many people that
23 compliance with that regulation may be quite difficult, in
24 may settings.

25 MR. TELFORD: But you are aware of the fact that

1 we are conducting a pilot program, with approximately 70
2 volunteers, and you are aware of the fact that we have had
3 workshops with those volunteers to discuss with them the
4 proposed 35.35 and the objectives there, and that they have
5 each developed or modified their program to meet 35.35, and
6 that they did so for a 60-day period.

7 And we will also have workshops with those folks
8 to find out their suggestions for how to modify the proposed
9 regulation and to hear about their experiences trying to
10 satisfy this regulation, how much trouble it caused them,
11 how much cost it was, et cetera, et cetera.

12 MR. BRINER: You just touched a nerve.

13 MR. TELFORD: Yes. Cost.

14 MR. BRINER: That's part of the public
15 information, right?

16 MR. TELFORD: Yes, sir.

17 MR. BRINER: How much did it cost NRC to do this,
18 and what does it cost the individual people in the pilot
19 study operation? Do you have any idea how much it cost?

20 MR. HENKIN: Yes, that's a very good question.
21 What has the cost to NRC been to date for this rule,
22 development of this rule, and for the pilot program? Do you
23 have any idea?

24 MR. TELFORD: I have not calculated that.

25 MR. BRINER: I would advise you not to, or you

1 will have a sleepless future.

2 MR. TELFORD: Thank you.

3 [Slide.]

4 MR. TELFORD: There's a case of misadministration
5 in March of 1990 in Michigan. This was 3250 rads to the
6 wrong portion of the spine. Do you think that caused any
7 harm?

8 MR. HENKIN: Yes. And you have to tell me whether
9 this could have been prevented or not.

10 MR. TELFORD: The cause here was the technologist
11 didn't consult the treatment chart, didn't consult the
12 directions, and used an anatomical marker still present from
13 prior treatments. Therefore, the technologist treated the
14 incorrect site. So now they will have a second technologist
15 verify the treatment prior to administering the radiation.

16 MR. HENKIN: You have increased the staffing
17 requirements of that institution with this solution.

18 MR. TELFORD: Excuse me. The licensee --

19 MR. HENKIN: Remember, licensees gives you back
20 what they think you want, okay, and what they think you will
21 accept.

22 If the licensee were to give you back, I'm not
23 going to change anything, you wouldn't be very happy with
24 that in general. You want them to do something. They've
25 got to do something. Therefore, what they do is they

1 propose to you something that they are going to do to
2 satisfy you, and somewhere in their system, the cost gets
3 eaten for this, or the staffing requirements are increased,
4 because you are going to use maybe two-tenths of a person to
5 do this.

6 So that where they had two technologists, let's
7 say before, they really need 2.2 people now to do the same
8 patient load.

9 This diminishes the quality of care to patients
10 overall, whether or not you realize that. And that's the
11 implications of some of this stuff.

12 Especially, and I can't speak to what the shortage
13 of radiotherapy technologists is, I know that I am short 2.2
14 staff technologists right now, and that it hurts bad, to be
15 short 2.2 people. And I cannot legitimately, as a
16 physician, practicing medicine, justify the use of a staff
17 technologist for medical application that don't affect
18 outcome. That's a medical judgment.

19 [Slide.]

20 MR. KLINE: It is subjective, I guess, as to which
21 institutional costs are incurred by having a double
22 verification or a redundancy. And it all varies between
23 institutions.

24 MR. HENKIN: There is still going to be a cost.

25 MR. KLINE: There is still an associated cost.

1 Sure. Could be minimal, could be large.

2 MR. HENKIN: I'm just saying in that case, that
3 might take .2.

4 MR. KLINE: The other side of the coin, in the
5 hospital, to have the same mistake occur, if you don't
6 institute some corrective action --

7 MR. HENKIN: That's a hospital decision, based on
8 its malpractice situation and its environment, that --

9 MR. KLINE: But that's a regulatory position of
10 the NRC, that we have to ensure the safety of the public.

11 MR. HENKIN: But you said to the hospital, and I'm
12 saying what you are doing is getting into the hospital's
13 management policy, which is not an appropriate place to be.

14 MR. KLINE: But they have a license.

15 MR. CAMPER: We're not getting into the hospital
16 management policy. The hospital will choose a corrective
17 action that it deems appropriate. We are looking, though,
18 from a public health and safety standpoint, for corrective
19 action. You're right. We do expect to see some adjustment
20 in your program to prevent this type of thing from happening
21 again. We expect it to be satisfactory. But how they go
22 about doing it, whether it's 1 FTE, .2 FTE, an
23 administrative clerk doing these kinds of things, is really
24 up to the hospital and the licensee. We don't get into
25 that.

1 MR. HENKIN: The point I'm trying to make, Larry,
2 and it's a point that doesn't seem to be getting through, is
3 that many of these are once in a lifetime occurrences for a
4 technologist. Having made an error of this type, it is
5 unlikely that person would ever make that error again. They
6 are so mortified professionally, and feel so inadequate,
7 that the likelihood of repeating the error is nil.

8 So what you do is you introduce a system that says
9 an individual made an error; now we are going to forever
10 modify the system at this particular institution when the
11 likelihood of that individual or another one at that
12 institution making the error is very small.

13 MR. KLINE: Would your recourse be to ignore it
14 and to say the system didn't work, but, well, that was --

15 MR. HENKIN: Only if you examine the system and
16 find that in the first place the system was no good.

17 If there was no system in the first place, that
18 would be a justifiable thing; you say well, you didn't have
19 a system, you should have a system.

20 If in fact they had a reasonable system of some
21 sort, because under your proposed rule, if this occurs, what
22 are you going to do? You are going to go back and ask them
23 to do the same thing they are doing now; how are you going
24 to change your quality assurance plan to assure this doesn't
25 happen. It's the same thing.

1 MS. ALAZRAKI: It really depends again upon what
2 the real incidence of these occurrences are. And in nuclear
3 medicine, what we've tried to say is that the incidence is
4 so small, that you're not going to improve upon it with
5 regulations or with procedures. We're already doing the
6 optimum quality assurance, based on JCAHO and other things,
7 that NRC is not going to make any kind of an impact on that
8 in our practices.

9 Now, you are presenting us with a lot of radiation
10 oncology cases, which we are not involved in.

11 MR. CAMPER: That's a point well made. And no one
12 would argue that the frequency of occurrences for
13 misadministrations in nuclear medicine is very small. We
14 won't argue that.

15 Again, as John pointed out earlier, what we are
16 trying to do here, and we ask you to bear with us, is to
17 give you the flavor of the environment that we have to look
18 at.

19 We can't isolate nuclear medicine.

20 MS. ALAZRAKI: You certainly can.

21 MR. HENKIN: You certainly can.

22 MS. ALAZRAKI: It's an entirely different
23 practice, different departments in the hospital, different
24 positions, different technologists. It's a totally
25 different department. And you certainly can isolate it.

1 MR. HENKIN: Commissioner Carr agreed to that
2 isolation.

3 MR. CAMPER: When we look at what is occurring in
4 misadministrations across the board, we're saying, at least
5 thus far, that the status quo is not acceptable.

6 MR. HENKIN: Let me correct that question. How
7 many therapeutic brachytherapy, teletherapy administration
8 are there per year, nationwide?

9 MR. TELFORD: 150,000.

10 MR. HENKIN: Okay. 150,000. there were 14
11 misadministrations last year, medical misadministrations, if
12 I remember you correctly.

13 MR. TELFORD: 14 this year. 12 last year.

14 MR. HENKIN: 12 last year. Okay.

15 MR. TELFORD: Which includes brachytherapy,
16 teletherapy, and nuclear medicine.

17 MR. HENKIN: Okay. Subtract out the three from
18 last year that we knew about. That leaves 11 for
19 radiotherapy out of 150,000. Now, is that 150,000 patients
20 or 150,000 sessions?

21 MR. TELFORD: Patients.

22 MR. HENKIN: Patients. So a session is on the
23 average of ten per patient, if I remember my radiotherapy
24 correctly.

25 So you are talking about 1.5 million sessions and

1 11 errors.

2 MR. TELFORD: No, no. You can't multiply all of
3 those numbers. Some of them are brachytherapy, which is a
4 one-time implant.

5 MR. HENKIN: There are obviousl many more than
6 150,000 sessions.

7 MR. TELFORD: Administrations.

8 MR. HENKIN: Administrations. Okay. There are
9 obviously many more. We can argue about what the number is.
10 But there were 11 out of that large number.

11 I submit, without knowing a damn thing about
12 teletherapy or brachytherapy, that that is insignificant.
13 It falls into your BRC classification.

14 MR. TELFORD: Be careful. BRC says 10 millirem
15 per patient.

16 MR. HENKIN: If you spread it over the public,
17 150,000 exposed people.

18 MR. TELFORD: If you are going to market something
19 like glow-in-the-dark golf balls or irradiated gemstones or
20 watches, your product, if it is sold to 100 million people
21 collectively, will be more than the 1,000 rem. But if it is
22 to an individual, like it's a product that is only going to
23 go to a few people, then you look at it on an individual
24 basis, and the increase should not be more than 10 millirem
25 per person to be BRC. I don't think these are BRC.

1 MR. HENKIN: I have another dumb question. And
2 that is, why don't you let the medical malpractice
3 environment take care of this? Because this is the greatest
4 disincentive to screwing up that there is. You can do
5 nothing to a physician or an institution that compares to
6 what one good malpractice suit can do.

7 MR. TELFORD: Maybe you're right. We can't sue
8 the physician for \$10 million. We can only pull the
9 license.

10 MR. HENKIN: And you wouldn't do that anyway,
11 because if you did that, you would render the institution
12 without service to the patients as a whole, and you know you
13 have a policy against doing that.

14 MR. TELFORD: I think we've already done that this
15 year, in fact, a couple of times.

16 MR. BRINER: Not for misadministrations.

17 MR. KLINE: We're looking now at whether or not
18 we're trying to prevent or diminish the chances, because
19 what is an acceptable rate of misadministrations
20 therapeutically for --

21 MR. HENKIN: Well, the malpractice report will
22 tell you it is zero, because anybody who has a therapeutic
23 misadministration can turn around and sue. Therefore,
24 they've already got an effective limit, if you like, and it
25 says, by the way, there are severe penalties associated with

1 a therapeutic misadministration. Those severe penalties may
2 run into the millions of dollars.

3 If you want to look at a disincentive to have a
4 therapeutic misadministration, I suggest that is a very
5 strong disincentive.

6 MR. KLINE: That is a deterrent, but not a
7 preventative mechanism.

8 What is an acceptable rate? What do you submit is
9 an acceptable rate?

10 MR. HENKIN: There is no such thing as an
11 acceptable rate.

12 MR. KLINE: That is basically what you are
13 quantitating here.

14 MS. ALAZRAKI: You can't talk about an acceptable
15 rate. All you can talk about is exceeding, if you can
16 define it, in other words, if there is something procedural
17 above and beyond human error, which you just can't
18 eliminate, no matter what you do.

19 MR. BRINER: I would say it is that range at which
20 we now are in nuclear medicine. You will not diminish that
21 any more, no matter what you do.

22 MS. ALAZRAKI: In fact, we believe seriously that
23 by burdening the nuclear medicine community with further
24 paperwork and regulation, you will endanger the low rate
25 which we have, because of the need to pull personnel off to

1 do this type of administrative paperwork above and beyond
2 what we are already doing. And that further endangers
3 mistakes or endangers the possibility of mistakes.

4 MR. KLINE: Assuming that we institute these
5 measures, has anyone sat down and looked at the costs in
6 associated personnel and extra time required for the
7 returns.

8 MR. HENKIN: We have all sorts of estimates on
9 that which have been provided previously. Your pilot study
10 will indicate some degree of what that is, but even if it
11 costs only 5-10 percent of personnel time, which I think is
12 a conservative number to talk about --

13 MR. KLINE: That's assuming now. Let's look at
14 maybe one to two percent.

15 MR. HENKIN: There's no way that it would cost one
16 to two percent.

17 MR. KLINE: The question is; we don't know, and
18 possibly, part of this pilot study might reveal.

19 MS. ALAZRAKI: We have to establish that it's
20 going to accomplish anything.

21 MR. HENKIN: What is one percent of nuclear --

22 MR. KLINE: We haven't established that it will,
23 but we haven't conversely, either. It's an untested rule,
24 that's true, but the argument goes both ways. You can argue
25 that it's not going to affect medicine, it's not going to

1 help. How do you know?

2 MS. ALAZRAKI: Because what we're trying to prevent
3 is already at such a low rate.

4 MR. HENKIN: I'll tell you how I know. We have an
5 analogous situation in another medical specialty. Blood
6 banking is regulated and the reporting of misadministered
7 red cells is a reportable item.

8 MS. ALAZRAKI: Only deaths.

9 MR. HENKIN: Causing deaths is a reportable item.
10 Okay, when you take the number of reported
11 misadministrations of red cells leading to death, factor
12 that into the total number, you come out with an identical
13 rate that we have for radiopharmaceutical misadministration,
14 .6 percent.

15 Okay, there's a message in here. The message in
16 here is that while you have humans in the system, you are
17 going to have an ongoing rate of errors. There seems to be,
18 at least from two diverse medical specialties, -- the only
19 thing they have in common is a reporting requirement. The
20 same error rate comes out.

21 Both have stringent procedures in place to assure
22 that misadministrations don't occur. So that what we're
23 saying is that in blood banking there is a real risk of the
24 mis-- obviously, they've only got to report deaths. Yet,
25 they still have misadministrations in blood banking. What

1 does that tell you?

2 Does it tell you that with all the effort in the
3 world, you may not be able to -- there's an asymptotic
4 approach to zero. The asymptotic approach to zero says that
5 you can never hit zero. The line effectively levels out and
6 parallels the axis forever. You may have reached that line
7 at .6 percent.

8 MS. ALAZRAKI: That's basically the most important
9 message that we have; that we feel that the
10 misadministration rate in nuclear medicine is approaching
11 the human error rate and you're not going to improve on
12 that. We have instituted quality assurance techniques to
13 ensure against misadministration which are excellent.

14 MR. TELFORD: So you're suggesting that .6 percent
15 is the --

16 MR. HENKIN: As low as reasonably achievable.

17 MR. TELFORD: That the regulation should be
18 designed to acknowledge that each licensee has a rate that's
19 .6 percent or below --

20 MR. HENKIN: Mine is much better than .6 percent.

21 MR. TELFORD: Is that what you're saying?

22 MS. ALAZRAKI: What we're saying is there is no
23 need for NRC to embark upon any unnecessary duplicative
24 regulations.

25 MR. TELFORD: We were going through the

1 misadministrations that we say. Let's see, that's
2 brachytherapy, that's brachytherapy and that's brachytherapy
3 -- that's brachytherapy. Those are nuclear medicine.

4 The reason I bring this case up is because it's
5 probably one of the oldest cases that I've showed you. It's
6 1988. The patient was -- the misadministration was that the
7 patient got 30 millicuries instead of 30 microcuries of I-
8 131.

9 The cause, from our point of view, is that the
10 order from the regular pharmaceutical was verbal and the
11 technologist got confused and order 30 millicuries instead
12 of microcuries and that when the dose arrived, it was not
13 checked in a dose calibrator because this is an agreement
14 state. This agreement state does not require dose
15 calibrators and they used the gamma counter and disregarded
16 the high count rate.

17 MR. HENKIN: This might fit my definition of
18 stupidity beautifully. I mean, here it was clear cut
19 information presented to the person that they had the wrong
20 material and they ignored it.

21 MS. SURREL: There was procedure here, okay. The
22 pharmaceutical was ordered verbally. Now, the verbal order
23 may have been correct. You're not stating one way or
24 another whether it was.

25 The point was that the person was confused. In

1 fact, there is a procedure and the procedure in Texas is not
2 to have a calibrator, okay? There is procedure there that
3 was somehow violated by a human being.

4 MR. TELFORD: If the order was firm for 30
5 millicuries --

6 MS. SURREL: This could have just as likely have
7 happened if the order was --

8 MR. BRINER: That may not be the only error there.
9 Who ordered it to begin with?

10 MR. TELFORD: The technologist ordered it.

11 MR. BRINER: Okay, where's your physician?

12 MR. TELFORD: The nuclear physician had ordered
13 the technologist to order 30 microcuries.

14 MR. HENKIN: You believe that writing this down
15 would have changed it?

16 MR. TELFORD: I am trying to show you problems.

17 MS. SURREL: We are telling you that a procedure
18 in place may not have changed this particular error.

19 MR. HENKIN: There are probably three errors in
20 this situation. There are at least three errors in this
21 situation, okay? Now, one of those errors would not have
22 been corrected by your regulations because a dose calibrator
23 is not required in Texas.

24 Their quality assurance plan wouldn't necessarily
25 have to include a dose calibrator, because their state

1 doesn't require that.

2 MR. TELFORD: I'll correct you on that, but go
3 ahead.

4 MR. HENKIN: Well, correct me on it now.

5 MR. TELFORD: This requirement would be compatible
6 for all agreement states.

7 MR. HENKIN: But your quality assurance plan
8 doesn't have to require a dose calibrator. You could have a
9 quality assurance plan that doesn't require a dose
10 calibrator.

11 MR. TELFORD: In the Regulatory Guide which
12 accompanies this, it talks about checking the dose in the
13 dose calibrator.

14 MR. HENKIN: What you're doing is that you're
15 assuming the authority in the agreement states as well, that
16 if the agreement states don't believe that this is
17 appropriate, they've still got to do it.

18 MR. TELFORD: That's an interesting statement, but
19 we've met with folks from the agreement states, and some
20 agreement states would go further than this proposed
21 regulation.

22 MR. HENKIN: And they certainly can. They have
23 the freedom to do that.

24 MR. TELFORD: That's exactly right, but what this
25 would envision is that all agreement states would come up to

1 a certain level.

2 MR. HENKIN: Are you implying that the agreement
3 states are not doing an adequate job right now?

4 MR. TELFORD: No, I think you are.

5 MR. HENKIN: Well, I'm trying to figure out what
6 you're saying.

7 MR. CAMPER: This rule for be an area for
8 compatibility for agreement states.

9 MR. TELFORD: It will be.

10 MS. ALAZRAKI: In the long term.

11 MR. TELFORD: It will be a matter of
12 compatibility.

13 MR. CAMPER: In the area of medicine, much of what
14 we do in part 3535 does not require compatibility for the
15 agreement states. There are only a couple of
16 misadministrations. This rule would be an area of required
17 compatibility for all the agreement states.

18 MS. ALAZRAKI: You have the capability of doing
19 that right now without any kind of quality assurance
20 program; don't you?

21 MR. TELFORD: We can --

22 MS. ALAZRAKI: No, in terms of how the institution
23 documents a dose. You don't have that capability?

24 MR. TELFORD: Well, the answer is the regulation.

25 MR. HENKIN: No, the answer to most things is not

1 a regulation.

2 MR. TELFORD: A mechanism for agreement states is
3 a regulation.

4 MR. CAMPER: If I understand your question, would
5 we give a great deal of leeway to the agreement states in
6 regulating the use of medicine? There are very few things
7 that we require strict compatibility for at this point in
8 time.

9 MS. ALAZRAKI: Misadministration is one. What
10 else?

11 MR. TELFORD: All they have to do is report the
12 misadministration. What I was trying to do was to show you
13 some causes and what the licensee has decided to do so that
14 we can understand the cause and whether or not you think the
15 actions taken to prevent reoccurrence are even interesting.

16 MR. BRINER: Who ordered this to begin with?

17 MR. TELFORD: Who ordered what?

18 MR. BRINER: This thing that precipitated the
19 misadministration?

20 MR. HENKIN: This wasn't the therapy dose
21 initially started out. It was the non-therapy does,
22 therefore, the ordering by the nuclear physician wouldn't
23 prevent this error again.

24 MR. BRINER: That's exactly right.

25 MR. TELFORD: That's what the state of Texas

1 decided to do.

2 MR. HENKIN: I'm just pointing out to you it's an
3 illogical solution.

4 MR. TELFORD: I agree with you, and that's why in
5 the proposed regulation, it says that if you're going to
6 order any I-131 procedures, 30 microcuries is the --

7 MR. HENKIN: What am I going to do with renograms
8 that are 300 microcuries each, using I-131? Am I going to
9 have to go through this song and dance before I can do
10 those?

11 MR. TELFORD: The song and dance that you allude
12 to is for a therapy procedure, just a written directive.
13 You do not issue a written directive for your procedures?

14 MR. HENKIN: A written directive meaning what?

15 MR. TELFORD: Something that you sign and directs
16 the technologist to do something?

17 MR. HENKIN: Not for an individual patient and not
18 necessarily. There's a standard dose in the procedure
19 manual. The Joint Commission requires that the physician
20 review the procedure manual and initial the procedure manual
21 to indicate his approval of that procedure manual.

22 MR. TELFORD: Good, that's exactly what we have.

23 MR. HENKIN: Then we don't need it.

24 MR. TELFORD: Do you issued a verbal directive?

25 MR. HENKIN: It depends. It may not be anything.

1 It may be just okay, that's a renogram, fine. Everybody
2 knows what we do with a renogram; it's in the procedure
3 manual.

4 MS. ALAZRAKI: The physician checks that the study
5 is appropriate for the patient. That's medical practice.
6 That the study is appropriate for the patient.

7 MR. TELFORD: How do you do that?

8 MS. ALAZRAKI: Based on the history.

9 MR. TELFORD: Do you initial something?

10 MR. HENKIN: No, not necessarily.

11 MR. TELFORD: All right.

12 MR. HENKIN: It varies institution to institution,
13 widely. In our case, we go through the requisitions and we
14 pull out those that we have question about; the rest are
15 handed to the technical staff.

16 MS. ALAZRAKI: What is recorded is any
17 inappropriate order.

18 MR. HENKIN: Right.

19 [Slide.]

20 MR. TELFORD: The nuclear end procedures we are
21 well aware of because of the pilot program we're doing. And
22 I think that they are going to offer us a very good solution
23 here.

24 MR. HENKIN: The solution is they may all
25 disappear, because there is a new pharmaceutical approved

1 that will probably replace it.

2 MR. TELFORD: This has happened in March of 1989
3 in Boston, Massachusetts. The patient received the wrong
4 radiopharmaceutical. The patient was to receive I-123;
5 instead the patient received five millicuries of I-131. The
6 technologist misunderstood the wording in the notes made by
7 the referring physician in the patient's chart. This is the
8 referring physician and not the nuclear physician. And the
9 patient got 500 rads to the thyroid, approximately. And
10 this licensee proposed a new procedure to verify what is to
11 be done in each diagnostic step.

12 So this is just a simple overcheck that they
13 proposed to do.

14 MR. HENKIN: We don't know exactly what they
15 proposed to do. But that's okay.

16 [Slide.]

17 MR. TELFORD: This is May of 1989 in Minnesota.
18 This patient received 30 millicuries instead of 300
19 microcuries. The technologist misunderstood the referring
20 physician's request, what it was, what the pharmaceutical
21 was to be, and the patient got 3000 rads to the thyroid,
22 approximately. And the licensee decided that a new
23 procedure would be used. He said that a patient is not to
24 be administered without prior approval by the nuclear
25 physician. The nuclear physician was not in the loop here,

1 prior to this.

2 MR. HENKIN: Let me make a point about this. And
3 that is that this hospital's quality assurance probably
4 acted on this as well. Since it is a 1989 case, they had to
5 have a quality assurance by 1989. And more than likely, the
6 recommendations of the internal quality assurance group are
7 what you got here.

8 So that somebody, formally, within the hospital,
9 would have reviewed this without a misadministration report
10 to NRC. And what you got back were the -- just guessing --
11 the recommendations of the quality assurance group in the
12 hospital as to what should be done, so that, looking at a
13 1989 date, and that that would function whether or not they
14 had to report it and whether or not you had a plan in place,
15 because they have to deal with those kinds of things.
16 That's their job.

17 We have a whole group that does nothing but
18 hospital quality assurance, and that we are constantly
19 prodded to do quality assurance studies within the
20 department that look at two different things. We have two
21 levels of quality assurance studies. One are administrative
22 issues, such as this. This is an administrative issue.

23 Another one, which you can concern yourself with,
24 and is really important, is outcome.

25 MR. BRINER: That's right.

1 [Slide.]

2 MR. TELFORD: This is a case in October, 1989,
3 Minnesota.

4 The patient ten times the prescribed dose. The
5 cause was that the referring physician here checked the
6 wrong box on the form. This institution at least had a form
7 for ordering doses in diagnostic case, but somebody checked
8 the wrong box and the patient got 100 rems to the thyroid.

9 I realize this reporting requirement was triggered
10 here, because it was ten times the dose, and in the
11 diagnostic case, 50 percent larger. This hospital decided
12 to revise its procedures to require the nuclear medicine and
13 not the referring physician here to review and approve the
14 request, and to write the dosage on the referral form, to
15 get the nuclear physician into the loop.

16 MR. HENKIN: This is a very interesting hospital.
17 It's a very interesting hospital, because I inspected this
18 hospital as part of a practice inspection program recently.
19 And they have just been pressured by Joint Commission, they
20 had no in-house quality assurance program. They didn't
21 have one, despite the size of the institution.

22 Joint Commission turned around on them and said we
23 will not accredit you again until you have a quality
24 assurance program in place.

25 So that this is a demonstration, if you like, of

1 the power of Joint Commission to make this particular
2 hospital, in-nominate at the moment, but well-known, and to
3 say that Joint Commission can turn the screws on that
4 hospital to force them to put a quality assurance program in
5 place.

6 MS. ALAZRAKI: It is also a good example of why
7 NRC perhaps should check that all their licensees do have a
8 quality assurance program.

9 MR. TELFORD: I can't believe you said that.

10 MS. ALAZRAKI: A quality assurance program such as
11 JCAHO, I mean, every licensee should have some quality
12 assurance program, and you should recognize that JCAHO's
13 quality assurance program is a better one that you are
14 probably going to be able to devise, and already in place,
15 and if not in place with any licensee, they should get it in
16 place.

17 MR. TELFORD: Gee, I think we all agree with that.

18 MS. ALAZRAKI: Not an NRC program, but the JCAHO
19 program.

20 MR. TELFORD: Well, we haven't gotten to
21 discussing form yet.

22 MS. ALAZRAKI: We've been discussing that. That's
23 what we're doing.

24 [Slide.]

25 MR. TELFORD: This is the case in Arizona in

1 November of 1989 that everybody is probably familiar with
2 where the patient got 100 millicuries instead of 100
3 microcuries. There were several causes.

4 The order for the radiopharmaceutical was verbal.
5 In fact, I think it was changed once, also verbally. The
6 dose was not measured in the dose calibrator, even though
7 Arizona, as an agreement state requires that. There was
8 miscommunication between to technologists.

9 One technologist says the dose has arrived, just
10 give it to the patient; the other technologist assumed that
11 everything else had been done, without checking the packing
12 slips and checking the dose calibrator, et cetera.

13 The horrible consequence, no doubt, was that the
14 patient's thyroid was destroyed. The state here suspended
15 the use of I-131 until the licensee could show how these
16 types of misadministrations could be prevented. On a
17 subsequent day they allowed them to use up to 100
18 microcuries without state approval.

19 MR. HENKIN: Let me make some comments on it.

20 Number one, classic stupidity. I mean, just
21 classical stupidity. They violated the state's regulations.
22 They violated good practice regulations.

23 How come nobody noticed that this container
24 weighed a ton when they went to lift it up? I mean, you
25 know, you get 100 microcuries of iodine, the shielding is

1 considerably different than 100 millicuries of iodine.

2 It never triggered in anybody's brain that this
3 thing that weighed a ton might not be the right thing.

4 So what you got is a lot of folks who were real
5 stupid. And again, I submit, you cannot legislate against
6 stupidity.

7 MS. SURREL: And again, I submit to you there is
8 procedure there. Procedure was just not followed.

9 [Slide.]

10 MR. TELFORD: Okay. Well, unfortunately, you
11 know, we have this regulatory responsibility to ensure
12 adequate safety of the public. And when we see cases like
13 this, and they go on and on, we don't have the option to
14 say, well the agreement state or the licensee has a
15 procedure in place, therefore everything is all right.
16 These cases keep recurring.

17 MR. HENKIN: And they are going to, forever and
18 ever and ever.

19 MR. CAMPER: That can be the case. And we here
20 this again and again and again. But let me just emphasize
21 that, at least at this point in time, the frequency of
22 occurrence of the major misadministrations is not acceptable
23 to the Commission.

24 MR. HENKIN: Three per year?

25 MS. ALAZRAKI: Out of 10 million administrations?

1 Come on.

2 MR. CAMPER: The point is, we would not be here
3 going through this drill and having this discussing if it
4 was acceptable to the Commission.

5 MS. ALAZRAKI: That is totally unrealistic.
6 That's unacceptable and unrealistic.

7 MR. HENKIN: That exceeds the standard of practice
8 for every area of medicine, for most industrial applications
9 of anything.

10 MR. CAMPER: That could certainly be the case, and
11 your argument has merit. But I'm just simply saying, to
12 look at where we are now, the frequency of occurrence is --

13 MR. HENKIN: Are you telling us we need to go back
14 and meet with the Commissioners about this again?

15 MR. TELFORD: All we're saying, you're saying to
16 us, the rate is low.

17 MR. BRINER: We are saying to you the rate is as
18 low as it can be.

19 MS. ALAZRAKI: As low as reasonably achievable.

20 MR. TELFORD: I appreciate your opinion. I won't
21 say this is established fact, because the data is somewhat a
22 little soft, both on exactly how many administrations were
23 given or exactly how many misadministrations really
24 occurred. I mean, today is a little soft.

25 But let's take it as an assumption that the rate

1 is very low. Okay? And we could argue, I mean we could
2 debate that the rate of misadministrations are apparently
3 low. But what we're seeing is that there's a problem out
4 there. Something is broken.

5 MR. HENKIN: How is it broken?

6 MR. TELFORD: Well, here is a case of it being
7 broken. November, 1989, Kuakini Medical Center, Honolulu,
8 the wrong patient received a therapeutic dose of 9
9 millicuries of I-131. Now, I'm sorry guys, but we've got
10 the responsibility of assuring adequate safety for these
11 patients.

12 Do you want me not to try?

13 MR. HENKIN: You've tried.

14 MS. ALAZRAKI: You've tried.

15 MR. TELFORD: No, we haven't. No, we haven't. We
16 have not tried at all.

17 MS. ALAZRAKI: How are you going to improve upon
18 the current JCAHO quality assurance program?

19 MR. TELFORD: I didn't say we were. We haven't
20 gotten to that point yet.

21 As a matter of fact, I have a very interesting
22 example of a JCH program that you sent in. And with your
23 permission, I would like to hand it out and I would like to
24 talk about this JCH program, because that is on the agenda.
25 And I would like to share with you, or we would like to

1 share with you what we see of that program that is on paper.

2 Now, it could be that you are doing much more in
3 your actual practice than what is on paper.

4 MS. ALAZRAKI: Let me say that what JCAHO wants on
5 paper at the time that that was written was one indicator in
6 the professional, and we do many more than just one
7 indicator. If you had the year's minutes from our meetings,
8 which JCAHO inspects when they come, you would see that
9 there are many more indicators than one. And one indicator
10 on appropriateness.

11 MR. TELFORD: But, see, I would like to understand
12 exactly in detail, as a one to one comparison of what the
13 objectives that we have are, what of those are already being
14 met by what JCAHO requires today?

15 See, it could be that that is a great boon for us,
16 because we have a couple of alternative ways to incorporate
17 their requirements, or indeed we may be, just in theory we
18 could say, if you are JCAHO certified, it could be that you
19 are exempt from the requirements as stated in our rule for
20 nuclear medicine diagnostics.

21 MR. BRINER: Let's get the terminology there; it's
22 accredited, not certified.

23 MR. TELFORD: I stand corrected, Captain Briner.

24 MR. BRINER: All right. If you're in the quality
25 assurance business, you ought to know what the terms are

1 that we go by.

2 MR. TELFORD: You are correct.

3 MR. BRINER: All right.

4 MR. TELFORD: In this case, the cause was the
5 technologist called the patient. Patient B responded and
6 received the I-131 dose, instead of Patient A.

7 Did I get that right?

8 MR. HENKIN: Well, it doesn't matter. We got the
9 message.

10 MR. TELFORD: Okay. The wrong patient responded.
11 The patient was to receive 20 millicuries of technetium for
12 a bone scan, but because it got the wrong patient, then the
13 patient got the 9,000 rads to the thyroid.

14 This licensee proposed that they would have a
15 single technologist who has the responsibility for
16 recognizing patients -- to do so prior to therapy; and to
17 handle all aspects of Iodine-131.

18 Also they'll have the patient and the physician
19 and the technologist sign the therapy worksheet, prior to
20 treatment.

21 This is what they proposed. And I've shown you a
22 variety of these; and they're all -- they're all kind of
23 different.

24 MR. HENKIN: Can I comment on this one too?

25 MR. TELFORD: Sure.

1 MR. HENKIN: Because this one's fascinating.
2 Because we almost had a diagnostic misadministration
3 recently that paralleled this; and it was caught only by
4 accident, because somebody was very alert.

5 MR. TELFORD: Okay.

6 MR. HENKIN: We had a patient coming in for a bone
7 scan. We had another patient coming in for a hepatobiliary
8 study. Okay.

9 The lady for the hepatobiliary study was delayed.
10 Her -- the machine to do her on was not available and she
11 had to wait in the waiting room for a while. She saw a
12 number of people going ahead of her for studies. So, the
13 next name that was called out, she responded to.

14 Okay, she responded to that name because she felt
15 she was losing her place in line, okay. And she got all the
16 way back to the hot lab, when the technologist picked up the
17 requisition, he realized that this patient was probably not
18 69 years old, the way it's stated on the requisition -- she
19 looked more of about 35 years old. And he started to
20 question what was going on.

21 But, in fact, if he hadn't looked at the age --
22 this lady kept swearing she was the other person, because
23 she was losing her place in line and all these other people
24 were going ahead of her.

25 So the causes are not always within the nuclear

1 medicine staff for these errors.

2 [Slide.]

3 MR. TELFORD: Well, that was a very good action
4 that the technologist took.

5 MR. HENKIN: But, no quality assurance program in
6 the world would mandate that. That's a smart person, that's
7 all. You just got a smart person in there, who had the time
8 to look at the requisition that day.

9 If I have to devote people to administrative
10 actions, I may not have the time to be reading the fine
11 print on every requisition.

12 MR. WIEDERMAN: If I remember, at Loyola issues a
13 little plastic card to all out-patients, and I assume.

14 MR. HENKIN: They do not necessarily have that
15 card on the first visit -- that's -- most of our people --
16 many of our people are single visit for diagnosis only.
17 They are not in the Loyola system. That card is not always
18 issued on the first visit. It sometimes comes in the mail,
19 subsequently.

20 But that -- you know, this is this question that's
21 been raised -- should we check driver's licenses. Well, if
22 you believe driver's licenses -- that -- we have a lot of 17
23 year-old kids with forged driver's licenses that say they're
24 21, okay, for obvious reasons -- that any of this
25 documentation is, first of all, a tremendous burden, and

1 second of all, the only time you really get concerned is
2 when the patient cannot identify himself -- he's comatose,
3 okay, or you have a question as to the patient's mental
4 ability, and he's not banded.

5 A hospital -- all hospital in-patients are
6 supposed to be banded. From time to time there's one who
7 isn't banded. Our standing rule is that if they patient
8 isn't banded and cannot identify himself, someone from the
9 nursing service must come and identify that patient and band
10 him on the spot.

11 But, I describe to you situations in which
12 misadministrations occur, that are not the fault of nuclear
13 medicine's staff and would not be preventable. We almost
14 had a diagnostic misadministration because this lady wasn't
15 going to lose her place in line.

16 MR. WIEDERMAN: Now, in your institution, doctor,
17 I assume you examine each one of your -- your therapy
18 patients?

19 MR. HENKIN: One of us -- one of us would speak to
20 and meet with each one of the therapy patients, that's
21 correct.

22 MR. WIEDERMAN: And then a dose is given that day?

23 MR. HENKIN: It's given -- well, it doesn't
24 matter, there's always a physician present when the dose is
25 given. It may not be given that day, but whenever the dose

1 is given, there would be a physician present.

2 MR. WIEDERMAN: So, you have sort of a -- a
3 redundant system in place already?

4 MR. HENKIN: Yes, and I don't think we differ --

5 MR. WIEDERMAN: Since you not only have your
6 technologist --

7 MR. WIEDERMAN: -- that much from most
8 institutions in how it's done. You know, that I think that
9 most of the time, somebody meets with the patient and
10 discusses the therapy with the patient. Because that's the
11 way you don't get sued, is to discuss the therapy.

12 MR. WIEDERMAN: I totally agree 100 percent; but
13 what we're finding is a lot of institutions out there -- the
14 physician doesn't even see -- the nuclear physician doesn't
15 even see the patient.

16 MR. HENKIN: That needs to be addressed by
17 somebody other than NRC, however, because that's an issue of
18 quality of practice -- quality of medical care. That's not
19 necessarily an NRC issue, that's an issue that deals with
20 quality of medical care as such.

21 MR. KLINE: But, if the wrong patient is given the
22 wrong --

23 MR. HENKIN: The physician could still give it to
24 the wrong patient.

25 I will point out to you, at the hospital that we

1 talked about a few minutes ago, whose name we wouldn't cite
2 -- a physician misadministered a dose to a patient.

3 MR. BRINER: That's one of the rounds that can go
4 wrong. But still -- there's still a number of different
5 mechanisms that could be prevented by simple checks.

6 I think, that the point is here is that a lot of
7 facilities are doing it -- like yourself. I believe you
8 probably had a very good quality assurance program; but can
9 you speak for the moral majority, or are there others out
10 there that are as good as your quality assurance program at
11 detecting these errors as they come through the front door?

12 MR. HENKIN: The quality assurance program is
13 related to the type of practice the institution has. That's
14 really what Joint Commission does -- it relates it.

15 And when it comes through nuclear medicine, one of
16 the question they ask you is about therapeutic procedures.
17 They always ask about therapeutic procedures.

18 And they actually ask questions far more extensive
19 than NRC asks. They want to know how you go about
20 evaluating patients for therapy. They want to know how you
21 follow up your therapy patients to see that the doses you're
22 using are, in fact, the appropriate doses that you may be
23 prescribing them.

24 You're only saying we have to prescribe them.
25 Joint Commission wants to know we're prescribing the right

1 does, and that we some how are following up our therapy
2 patients to see that we're having an appropriate effect on
3 those patients.

4 MR. KLINE: Okay. So, you're looking at longevity
5 -- and you're looking at recurrence --

6 MR. HENKIN: We -- we have our people come back
7 for a year, if they will. But you can't force them to come
8 back.

9 MR. KLINE: But see, now we're getting into
10 something different. We don't look at that end, because
11 we're not into clinical medical sense.

12 MR. HENKIN: But, they are far more extensive in
13 what they ask for.

14 MR. KLINE: Yes. I realize what you're saying.
15 Yes, they do go further.

16 But, we're just simply looking at the preventative
17 measures. And, believe it or not, there are, I would
18 speculate, just as you might speculate the opposite, a lot
19 of hospitals that don't have these sort of checks in place.

20 Now, how do you assume that they have them in
21 place, and how do you assume that they do have a good
22 quality assurance program?

23 MR. WIEDERMAN: That's the Joint Commission's
24 function. That's what they're out there for. What about
25 the outpatient, private practice patients?

1 MR. HENKIN: I think we have to discuss that as a
2 separate topic. Because they don't have to compose
3 anything, except their licensees.

4 MS. ALAZRAKI: Accept if they're licensees of
5 yours, you can ask them to comply with JCAHO, as a quality
6 assurance --

7 MR. HENKIN: There is an increase.

8 MR. WIEDERMAN: You're saying, we should ask the
9 private practice but we shouldn't ask the hospitals?

10 MS. ALAZRAKI: No. You can require it of all your
11 licensees, as long as we're hooked up with a quality
12 assurance, or appropriate --

13 MR. HENKIN: Or have them present other acceptable
14 evidence that is discussable as to other acceptable
15 evidence; but there's nothing that stops Joint Commission
16 from inspecting out-patient facilities, okay. And, in fact,
17 if the reimbursement trends continue the way they are --

18 MS. ALAZRAKI: They will.

19 MR. HENKIN: -- it's probably going to be required
20 any way, so that down the road, it's Medicare who's probably
21 going to require that at some point. They require it now
22 for in-patient facility.

23 [Slide.]

24 MR. TELFORD: We looked at misadministrations from
25 1980 to date. We see a lot of mistakes being made.

1 MR. HENKIN: You see some mistakes.

2 MR. TELFORD: Our reaction is, we'd like to try to
3 prevent these misadministrations. In fact, the exact
4 reaction that Dr. Alazraki had, was that everybody should
5 have a quality assurance program, everybody should be trying
6 to prevent.

7 MR. HENKIN: No, we don't argue with that.

8 MR. TELFORD: That -- that's our basic intent,
9 we'd like to prevent.

10 Now, if you want to discuss how to do that, let's
11 do that. But, basically, we'd like to prevent --

12 MR. HENKIN: The question is --

13 MR. TELFORD: -- the errors in medical use.

14 MR. HENKIN: -- whose job is it to prevent?

15 That's what the bottom line is.

16 MR. TELFORD: Whose job?

17 MR. HENKIN: We believe that is a function of the
18 practice of medicine -- to prevent medical errors. No other
19 Federal regulatory agency is involved in the prevention of
20 medical practice errors.

21 MR. TELFORD: This is a technology statement.

22 MR. HENKIN: It's a medical -- I read you -- do
23 you want to hear the definition of a medical practice?

24 MR. TELFORD: Okay. It's a medical error.

25 MR. HENKIN: It's a medical practice error.

1 MR. TELFORD: It's a medical practice error.

2 MR. HENKIN: Again, I will take the analogy I took
3 with you in a private discussion. If I'm an internist and I
4 run a private office and I do no nuclear medicine, I'm not
5 licensed by the NRC --

6 MR. TELFORD: Okay.

7 MR. HENKIN: -- however, I have a nurse working
8 for me in that office and she give B-12 injections to
9 patients, common thing that happens in a private office
10 setting for an internist.

11 If she misadministers B-12, or gives something
12 other than B-12 in the injection; what Federal agency is
13 interested or responsible for that?

14 MS. ALAZRAKI: None.

15 MR. HENKIN: None.

16 Whose head is it on? Mine. It's my medical
17 practice. Everybody in that practice I am responsible for.
18 I will be sued if any of them do anything stupid, criminal
19 or anything else. So that is no difference in a nuclear
20 medicine practice.

21 The people who work in that practice, in the
22 hospital I am responsible for legally. It is my practice,
23 as if it were an internist private office practice. And we
24 do not believe there is anything in Federal law that
25 entitles you to get into a medical practice. And that is

1 what you're doing.

2 We come back to the very beginning. The internist
3 who misadministers a drug in his office, no matter what it
4 is, the FDA has no right to go in there and do anything with
5 it. Neither do you have any right to involve yourself in a
6 -- the practice of medicine.

7 And that's what we're talking about. No matter
8 what the merits may be, we can argue over the merits.

9 MR. TELFORD: Let's say that -- it's not you,
10 because you have a --

11 MR. HENKIN: No, no. Let's say it is me.

12 MR. TELFORD: Let's say -- let's say -- while you
13 say it's -- where's the nearest you know what? I need to
14 take a pit stop here.

15 MR. HENKIN: We'll go off the record a minute.

16 [Brief recess.]

17 MS. ALAZRAKI: Except their licensees.

18 MR. TELFORD: Back on the record.

19 Let's continue. I'd like to finish with this line
20 because I'm going to respond to your question of need. Then
21 we can break for lunch and come back and perhaps fruitfully
22 get into a discussion of what the JCAHO requires.

23 The first point here was that we see these
24 misadministrations and we have the reaction that Dr.
25 Alazraki had, that we think everybody should have a quality

1 assurance program and should try to prevent and not only
2 that, it's our regulatory responsibility to make sure that
3 adequate safety is provided for members of the public
4 including patients.

5 Now what we see is that we're -- the total
6 collective "we" here including the NRC and the agreement
7 states which comprises something like 2,000 facilities for
8 NRC and 4000 facilities for agreement states is that we seem
9 to be going around one at a time and we see one problem like
10 a teletherapy problem at hospital number one, a
11 brachytherapy problem at hospital number two, and then we
12 see a nuclear medicine therapy problem at hospital number
13 three, then we see a patient identity problem in hospital
14 number four, so we can iterate through our 6,000 facilities,
15 one's for teletherapy, one's for brachytherapy, one's for
16 nuclear medicine, one's for patient identity, we could go
17 around that loop 24,000 times, which seems to be an
18 inefficient way to proceed.

19 Rather, we would like to have a generic solution,
20 to have a performance based set of requirements that in part
21 could be driven by JCAHO, indeed maybe should incorporate
22 everything there that is worthwhile but we favor a generic
23 solution. That is another need for rulemaking.

24 Thirdly, we would like to bring all the licensees
25 up to the same minimum sufficient level of standards. It

1 could be that because 79 percent of hospitals belong to JCAH
2 that they are already up to a certain level of standard and
3 it could be that it turns out that the final rule could be
4 nothing of an impact to those folks to speak of because they
5 already have JCAH requirements in place, but there are those
6 out there that don't have those same minimum sufficient
7 levels, so that is the third need for the rule.

8 I am sure you have some comments to make.

9 MS. ALAZRAKI: When you say a generic solution, do
10 you mean sealed sources, unsealed sources? Do you mean --
11 what are you talking about?

12 MR. TELFORD: Generic solution means one solution
13 -- the form is for everyone, like --

14 MR. HENKIN: One size fits all.

15 MR. TELFORD: One size fits all. It's in this
16 case a regulation that's --

17 MS. ALAZRAKI: And "one size fits all" could be
18 JCAHO type of quality assurance compliance would be
19 acceptable.

20 MR. TELFORD: The JCAHO type requirements could be
21 included in that generic solution as being applicable to
22 nuclear medicine diagnostics.

23 MS. ALAZRAKI: As opposed to radiation therapy
24 or --

25 MR. TELFORD: As opposed to what we have invented

1 so far.

2 MS. ALAZRAKI: Okay.

3 MR. HENKIN: I don't think I am prepared to
4 comment on that as a solution at the moment. It is
5 certainly one of the viable solutions is to say that
6 compliance with JCAHO will satisfy NRC. That is certainly a
7 potentially viable solution, okay.

8 Whether it is the best solution is another
9 question.

10 We have yet to deal with the issue that is at the
11 heart of this and that is whether or not you have gone
12 beyond the limits of the Atomic Energy Commission Act and
13 whether you have gone beyond the statements of consideration
14 in terms of involvement in the practice of medicine and that
15 I think is an issue that is key to all of this, whether or
16 not it is JCAHO or anything else.

17 MR. CAMPER: Let me make a comment about that and
18 certainly we're not prepared at this moment in time to
19 answer that question. That is a question that would have to
20 involve the Office of General Counsel obviously and things
21 like that.

22 What I would rather do though is try to focus upon
23 where I think we are now and that is, as you and I
24 discussed, Dr. Henkin, after the meeting that this
25 rulemaking has a history. There have been some steps that

1 have been taken along the way including the fact that the
2 medical community asked the Commission to pursue a
3 performance-based rulemaking, which it is doing, that asked
4 the Commission to conduct a pilot program, which it is
5 doing.

6 I think to try to be as constructive as possible
7 for today's meeting we should focus upon or draw attention
8 as to whether or not the JCAHO criteria will address our
9 needs.

10 We also should focus upon whether or not the idea
11 and the possibility of categorizing nuclear medicine and
12 brachytherapy and teletherapy in some separate fashion is
13 the best way to go.

14 We start getting into the argument of whether or
15 not the rule is necessary. Are we invading the practice of
16 medicine and so forth and so on.

17 You are entering into a different area, a
18 different arena than I think we are capable of dealing with
19 here today. Our primary focus, and John can correct me if
20 I'm wrong, is to try to take a look at given where it is
21 today in the history of the rulemaking process thus far, to
22 what extent, in what fashion can we take a look at existing
23 programs out there and see if they will work.

24 As John pointed out earlier, we would like to go
25 through one of these JCAHO programs and try to compare and

1 contrast how it relates to what we are specifically asking
2 for.

3 Another thing I think is very important is to try
4 to get back to the point -- your earlier comments about
5 35.35 and the eight objectives and the language in those
6 eight objectives and in trying to draw some clarification as
7 to what we can do if anything to wordsmith, if you will,
8 those objectives so that they address your concerns about
9 invading the practice of medicine while at the same time
10 trying to address our concerns about a performance-based
11 quality assurance program.

12 I think that would be more constructive.

13 I am not sure we are really in a position to
14 answer the question --

15 MR. TELFORD: Well, we could discuss these. Dr.
16 Henkin is alluding to the 1979 Commission policy statement.

17 MR. HENKIN: We can further than that.

18 MR. TELFORD: We can discuss those. I mean that's
19 really the basis for --

20 MR. HENKIN: Well, if you're telling me that you
21 need a ruling from the Office of General Counsel on whether
22 or not you're within your bounds in terms of the statements
23 of consideration, I think that's reasonable, okay?

24 I think by the same token we would have to obtain
25 a legal opinion in that situation as well because that

1 becomes a legal proceeding then and I think that is a very,
2 very key thing to decide because in a way you are setting
3 precedent for Federal regulatory agencies and this is what
4 worries us -- so that you need to understand why we are so
5 concerned about this topic as to whether or not you are
6 within the bounds of your regulatory authority to do so.

7 MR. CAMPER: Let's go off the record for a minute.

8 [Discussion off the record.]

9 MR. TELFORD: Let's go back on the record. Let me
10 see if I understand your question correctly, Dr. Henkin.

11 I think you are alluding to the 1979 Commission
12 policy statement, in fact Item 3, which says "The NRC will
13 minimize intrusion into medical judgments affecting patients
14 and into other areas traditionally considered to be a part
15 and a practice of medicine."

16 This statement says that the NRC will minimize
17 intrusion.

18 MR. HENKIN: That's correct.

19 MR. TELFORD: But the first one says that the NRC
20 will continue to regulate the medical uses of radioisotopes
21 as necessary to provide for the radiation safety of workers
22 and the general public, so it says it will continue to
23 regulate all medical uses and the second statement is that
24 the NRC will regulate the radiation safety of patients where
25 justified by the risk to the patient and where voluntary

1 standards or compliance with these standards are inadequate.

2 MR. HENKIN: There is also a statement that you
3 have made any number of times as an agency on the record
4 which basically says that you are interested only in the
5 safe handling of materials, okay, the storage and handling
6 of active materials safely.

7 This again goes well beyond that and it goes to
8 the point of prescribing things that are already prescribed
9 by medical -- by parts of the medical practice, that there
10 are at least three groups that are involved in quality
11 assurance in nuclear medicine at the present time.
12 Therefore, okay, this is already part of the practice of
13 medicine because the medical groups themselves are involved
14 in it.

15 It brings it in as part of the practice of
16 medicine. It's a standard of practice.

17 If you look at ACNP's manuals, those things are
18 labelled standards, okay, therefore my argument rests on the
19 fact that you are in fact extending your intrusion into the
20 practice of medicine where such organizations already exist
21 and I think you can make a very interesting case for whether
22 or not you ought to be there and I would hate to see it come
23 to that but the feelings of the professional societies and
24 the professions are very, very strong in this area because
25 it sets a precedent for Federal regulatory agencies to

1 regulate the actions of individual physicians. That is not
2 an acceptable precedent.

3 MR. TELFORD: I think your point is in part on
4 number two, where it says voluntary standards would be used
5 unless they are found to be inadequate.

6 MR. HENKIN: Now we have some question as to who
7 can judge adequacy of medical standards. You have no
8 physicians, no nurses in your employ. How can you judge
9 medical standards?

10 MR. TELFORD: This doesn't necessarily say we are
11 going to judge medical standards.

12 I think the key phrase in number one, one of the
13 key phrases, is medical use. Medical use is a term defined
14 in 10 CFR 35.2, which says roughly that it is the
15 administration of byproduct material or the radiation
16 therefrom to patients in the practice of medicine, so that
17 when the Commission's policy statement says that it will
18 continue to regulate the medical uses of radioisotopes, that
19 is very specific.

20 MR. HENKIN: This is not a medical use that you're
21 regulating. These are areas outside the direct use, okay?

22 You are not regulating -- I mean if you want to
23 talk about regulating the use that's one thing. This is not
24 regulating the use. This is administrative procedures not
25 directly related but indirectly related to use.

1 MR. KLINE: But if it's a use of materials to be
2 regulated, a function of misadministrations --

3 MR. HENKIN: We're back to misadministrations
4 again. That is a place we don't want to be. We want to
5 talk about this is the abstract.

6 If we talk about misadministrations you get into a
7 whole other numbers game that I think is very difficult for
8 you to justify.

9 MR. KLINE: But your statement that we regulate
10 only the safe handling of material, this seems somewhat
11 contradictory with current regulations that we have.

12 MR. HENKIN: I think you guys have never decided
13 what it is --

14 MR. KLINE: Okay, so now we're going back to rules
15 that are already in effect, you are saying --

16 MR. TELFORD: Well, we have decided and it is
17 medical use, as defined in 35.2.

18 MR. HENKIN: I submit that we need to sit down
19 with the Commissioners and we need to discuss with the
20 Commissioners exactly what their direction is for this
21 because obviously there is conflicting direction for what is
22 to be done.

23 MR. TELFORD: Not on our part.

24 MR. HENKIN: We view that -- okay, at one point
25 they are telling you to stay as much as possible out of the

1 practice of medicine but you're interpreting another part to
2 say that you need to be involved here, in this which is a
3 medical practice area.

4 MR. TELFORD: It says minimize intrusion into
5 medical judgments.

6 MR. HENKIN: This is judgment. It is all
7 judgment. Quality assurance is completely judgment. There
8 is no right and no wrong in quality assurance. It is all a
9 call.

10 It is a baseball umpire.

11 MR. TELFORD: It seems to us that if you're
12 talking about medical use and the nuclear physician decides
13 that a patient should get 30 millicuries of I-131, that's
14 exactly what should happen. That patient should receive
15 that dose, that isotope.

16 MR. HENKIN: And it's his responsibility to see
17 that occurs and nobody else's.

18 MR. TELFORD: If that happens, then the safety of
19 that patient has been adequately assured. So we're really
20 after the same goal.

21 MR. HENKIN: Let me give you the other part of the
22 coin. In my practice, I use a drug called Adenosine to
23 enhance the quality of myocardial perfusion studies. It's a
24 dangerous drug; it can cause complete heart block. I
25 prescribe it at the dose of 140 micrograms per kilogram per

1 minute for 6 minutes. What paid federal agency is
2 responsible for seeing that drug is given at that rate in my
3 practice? There is none. There need be none. It is my
4 responsibility to see that that occurs.

5 My medical license in the state of Illinois, has
6 described again in here as to what a licensed physician is
7 and what the responsibilities of a licensed physician are,
8 and I use that drug in conjunction with a radioactive drug.
9 I can do far more damage with that drug -- I can kill
10 somebody with that drug. I can't kill him with the
11 concomitant radioactive drug.

12 MR. KLINE: But that decision on the quantity to
13 use --

14 MR. HENKIN: Is mine.

15 MR. KLINE: That's correct.

16 MR. HENKIN: And I have to see that it's executed
17 properly.

18 MR. KLINE: Are there not a lot of variables that
19 you have to consider before you would determine the quantity
20 of that drug to use?

21 MR. HENKIN: No. As a matter of fact, I give the
22 same dose to everybody.

23 [Laughter.]

24 MR. KLINE: You give the same dose to everybody.
25 Okay.

1 MS. ALAZRAKI: That would be under his purview.

2 MR. HENKIN: But I could change it on any patient
3 I want to change it on. It's a prescription I've written, a
4 standing order, if you like, in the department that says --

5 MR. TELFORD: How about the by-product material?

6 MR. HENKIN: A by-product material is often
7 changed. It's more often changed than --

8 MR. TELFORD: Not a by-product material.

9 MR. HENKIN: We're not using a by-product material
10 for this, but we could very shortly. If the FDA gets its
11 act together and approves Cardiolite, it could be used in
12 conjunction with Cardiolite.

13 MR. BRINER: You ought to tell them also the
14 halftime of that non-radioactive drug you're talking about.

15 MR. HENKIN: It's ten seconds, eight seconds,
16 something like that.

17 MS. ALAZRAKI: Very short.

18 MR. BRINER: You're not going to catch him in an
19 error very quickly, very often.

20 MR. HENKIN: You see, the parallel I'm trying to
21 draw, that I'm using at the same time a radioactive drug and
22 a non-radioactive drug, both of which I am responsible for.
23 The drug that is potentially lethal, I need deal with no
24 federal agency on. I could kill somebody with that drug and
25 it's not the responsibility of a federal agency to stop me.

1 And it is part of the practice of medicine, as I am licensed
2 by the state of Illinois to practice medicine.

3 MS. ALAZRAKI: However, if you did kill someone or
4 hurt someone with the non-radioactive drug, it would come
5 under the quality assurance program in review, and that is
6 the control.

7 MR. HENKIN: Even if I didn't -- as a matter of
8 fact, the Pharmacy and Therapeutics Committee of the
9 hospital approves my use of that drug in that application in
10 that does.

11 MS. ALAZRAKI: Well, the hospital altogether --

12 MR. TELFORD: Well, I'm sorry, Dr. Henkin, but I
13 think we're involved. I mean, the guidance that --

14 MR. HENKIN: Well, then we have a basic
15 disagreement and I'm not sure there's much more to talk
16 about because to talk further would be deemed an endorsement
17 of what you're doing and we don't endorse it.

18 MR. TELFORD: You made the suggestion earlier that
19 -- which I agree with, that we could just assume that, you
20 know, we set those objections or concerns aside for a
21 moment.

22 MR. HENKIN: But they keep coming back. They keep
23 resurfacing.

24 MR. TELFORD: Not to bury them, but just to set
25 them aside so that we can discuss in detail what JCAH would

1 require.

2 MR. HENKIN: We can discuss what JCAHO does and
3 what its requirements are, but I don't see this as
4 applicable to the rest of this discussion simply because you
5 are starting from a place that we cannot accept.

6 MR. CAMPER: Let me address that. Let me, if I
7 can, so we can come to some conclusion on this point at this
8 moment in time, try to characterize what I think I hear you
9 saying. It goes something like this.

10 On April 7, 1988, members of the medical
11 community, including several members of the ACNUI, briefed
12 the Commission on their concerns regarding the 1987 proposed
13 rule. They stated that a performance-based rule should be
14 promulgated rather than a prescriptive rule. They also
15 suggested a pilot program would be useful for determining
16 whether the proposed QA steps would interfere with clinical
17 practice.

18 MR. HENKIN: I think that's a mischaracterization
19 of what happened. What happened was there was total
20 objection to any rule of any sort, and very much, as at this
21 meeting, that's why we refuse to make the same mistake
22 again, because it was taken out of context as to what the
23 medical community said.

24 The medical community said there's no need for any
25 rule. And NRC said there's going to be a rule. Well, we

1 said if there's going to be a rule it should be performance-
2 based. But that has been taken out of context. It is not a
3 correct interpretation, and I think Bill was involved.

4 MR. BRINER: That's right.

5 MR. CAMPER: So then, at this point you're saying
6 that the medical community still questions the need for a
7 performance-based rule.

8 MR. HENKIN: We don't question it. We know
9 there's no need for a --

10 MR. TELFORD: You mean, the nuclear medicine
11 community.

12 MR. HENKIN: ANCP and SNM. If you know of others,
13 that's fine.

14 MR. TELFORD: Well, for instance, the American
15 College of Radiology and others.

16 MR. HENKIN: Have they endorsed this rule?

17 MR. TELFORD: I don't want to put words in their
18 mouth. We have met with them. We do not hear similar
19 statements from --

20 MR. HENKIN: The American College of Radiology
21 doesn't really represent nuclear medicine.

22 MR. TELFORD: I didn't say that.

23 MR. CAMPER: That's a result of my statement, the
24 medical community. It looks like we're drawing a
25 clarification as to what we're calling the medical

1 community. That's a very good point.

2 MS. ALAZRAKI: When you talk about the American
3 College of Radiology, that concerns both the sealed source
4 and unsealed source administrations.

5 MR. CAMPER: Despite this position at this point
6 in time, despite the fact that you believe that this Federal
7 Register notice does not adequately characterize the
8 proceedings of 1988, can we, would it be worthwhile to set
9 that aside for the time being and look at what to what
10 extent the JCAH criteria would address our concern.

11 MR. HENKIN: I think we can talk about that. I
12 just don't want it in any way taken out of context the way
13 that was to say that we recommended the use of JCAHO
14 criteria. That is not at all what we're recommending.

15 MR. TELFORD: If we characterize it as offering
16 you the opportunity to educate us as to what a program would
17 look like if it were following JCAH so that we could then
18 compare it to the objectives that we're trying to achieve,
19 we could either understand how to do that better or how to
20 change ours so that we could be more in alignment.

21 MR. HENKIN: We could discuss what it is that
22 JCAHO does and how it does it. Yes, I think that is a fair
23 discussion to occur so you understand what it is Joint
24 Commission does.

25 MR. BRINER: Beyond that, with the exception of

1 you referencing JCAHO as an appropriate way to effect a
2 quality assurance program, I don't want you to infer from
3 our discussion the fact that you should present a mirror
4 image of JCAHO. That's not what we're saying. We're simply
5 saying you don't belong in this quality assurance business,
6 period.

7 MR. CAMPER: As we look at JCAHO, I think two
8 things would be useful. One would be, we try to, as John
9 alluded to earlier, take a program and the specific line
10 items and compare how they do relate to our eight major
11 objectives, also with some consideration in that regard for
12 the accreditation manual.

13 Then, the other thing that I have some concerns
14 about is enforceability.

15 MR. HENKIN: Can we discuss that first? That's
16 the easiest one to address.

17 MR. TELFORD: Do we want to break for lunch at
18 some point?

19 MS. ALAZRAKI: Yes, at some point.

20 MR. TELFORD: Would anybody object to breaking for
21 lunch. It's about 12:20.

22 MR. BRINER: Let me ask you this, how much longer
23 do you think this is going to take?

24 MR. TELFORD: Until about 5:00.

25 MR. BRINER: I don't think it's going to take that

1 long.

2 MR. TELFORD: Or as long as you're willing to stay
3 and discuss with us.

4 MR. HENKIN: Well, we will stay as long as there's
5 a productive discussion going on.

6 MR. TELFORD: I would really like to get through
7 most of these items on the agenda. I think there's a lot of
8 fruitful areas there to discuss and I think you all could
9 give us a really good insight into what you think should
10 happen or how to change these things or how to improve them
11 from your point of view, and by golly, we all came a long
12 way to come here today. We have people from Chicago, a
13 person from Atlanta and a person from the Philadelphia area.

14 We all came here in earnest to engage in a good
15 roundtable discussion, and we truthfully want to learn from
16 you.

17 MR. HENKIN: We're very willing to discuss with
18 you how these other things work and what they do. I don't
19 think that -- we have no problem with discussing these other
20 programs that exist and how they operate, what they're
21 designed to do. I think that's fine.

22 MR. TELFORD: Does that mean you don't want to
23 discuss the other items on the agenda?

24 MR. HENKIN: I'm not sure. I don't know what I
25 want to say about insight from comments. I mean, you've got

1 comments --

2 MR. TELFORD: That was your idea.

3 MR. HENKIN: Well, you've got the comments on the
4 comments now from Dr. Marcus. I'm not sure you we can do
5 much more than the comments on the comments.

6 MR. TELFORD: How about Item 4?

7 MR. HENKIN: I think we've been discussing 35.35
8 extensively.

9 MR. TELFORD: We haven't discussed it in detail.
10 Maybe after we've discussed this, maybe after we've
11 discussed where the JCAH facility operation might look like,
12 then we could compare it to the 35.35 objectives.

13 MR. CAMPER: I think that's extremely important,
14 just to try to get a comparison that's close to be a line
15 item-by-line item as possible. We have a great deal of
16 interest in your comments at the ASMUI meeting as to whether
17 or not JCAHO would address the nuclear medicine component.
18 I think we all recognize the brachytherapy and teletherapy
19 pose certain problems.

20 MR. TELFORD: Great. It's about 12:25. Should we
21 break for lunch and come back in an hour? Is that
22 acceptable to everybody? Let's take a break and go off the
23 record.

24 [Whereupon, at 12:25 o'clock p.m. the meeting was
25 recessed for lunch, to reconvene at 1:25 p.m.]

AFTERNOON SESSION

[2:13 p.m.]

1
2
3 MR. TELFORD: Shall we resume. This afternoon,
4 first thing, let me propose that we take an example program
5 that supposedly meets JCAHO requirements, use this as a
6 discussion vehicle to do a couple things.

7 One would be so that we could learn what would be
8 required of any licensee if they were following JCAHO to the
9 extent of our interest of making sure the patient gets the
10 dose as directed.

11 And secondly, to compare it to the objectives that
12 we have -- this would be on page 1449 of this handout. Now,
13 does everybody have one of these? Captain, Briner, do you
14 have one of these?

15 MR. BRINER: Yes.

16 MR. TELFORD: We would like to understand what
17 procedures would come into play if a licensee were following
18 the JCAHO quality assurance program. How would you like to
19 proceed? Would you like to discuss the plan or would you
20 like us to discuss the plan?

21 MS. ALAZRAKI: Let me just point out, since I know
22 this plan, that the JCAHO quality assurance programs involve
23 mandatory monthly meetings at which time each indicator or
24 point of any incident which has happened over the past month
25 is reviewed in some detail so that the minutes of the

1 monthly meeting are a part of the program.

2 The indicators change from time to time so that
3 this is a bunch of indicators that you have here for a
4 specific time period and you may find different indicators
5 several months later in the plan.

6 It's a dynamic program, in other words. It
7 doesn't remain static, so that while what you have here is
8 some indicators from one point in time, you cannot really --
9 you don't have everything to evaluate the total scope of the
10 program, which would include the procedure manuals, the
11 appropriateness journals which we keep, the minutes, and
12 probably even more documentation than is included in all of
13 those items.

14 MR. TELFORD: Okay. Could we go through these?
15 I'll take the first one -- to offer diagnostic and
16 therapeutic procedures, which are both useful to the
17 referring clinician and regarded as appropriate by the
18 medical community.

19 The indicator that you spoke of is really some
20 action step that needs to be taken, and this one is to
21 monitor requisitions in order to judge the appropriateness
22 of requested procedures.

23 And then criteria stated in this book, in the
24 "data and reviews" column, says the resident is to review
25 every requisition and resolve any questions regarding

1 possible inappropriateness prior to commencing procedure.

2 So we would look at this and say that the
3 intentions here seem to be to have a procedure which ensures
4 that the correct procedures is about to happen and you have
5 a physician under the supervision of a nuclear facility, an
6 authorized user, to review the referral prior to administra-
7 tion.

8 I think that's one of the ones that we would be in
9 agreement with as something very similar to an objective
10 that we would have.

11 MR. WIEDEMAN: In my review of this it appears
12 that this first one would satisfy the objective no. 1 of
13 35.35.

14 MS. ALAZRAKI: Well that would satisfy that
15 objective. This is a practice of medicine indicator.

16 MR. WIEDEMAN: Well the indicator being monitored
17 to requisitions in order to --

18 MS. ALAZRAKI: Appropriateness.

19 MR. WIEDEMAN: Appropriateness, yes.

20 MR. TELFORD: And, Darrell, would it also perhaps
21 satisfy the one where depending upon if they have the
22 resident somehow initial or somehow indicate that the review
23 happened, wouldn't that be the same as having the authorized
24 user direct this --

25 MR. WIEDEMAN: As they're working under the

1 supervision of the authorized user?

2 MR. TELFORD: Yes, directed this -- well, is it a
3 diagnostic or therapeutic? This one step may cover more
4 than one.

5 MS. PICCONE: Does JCAHO require that all
6 requisitions be reviewed, or is that the way you have
7 interpreted it?

8 MS. ALAZRAKI: Well, what they require is that we
9 ensure appropriateness.

10 MR. HENKIN: Well, there are two JCAHO documents,
11 and I think you can't confuse them. One is their quality
12 assurance manual, one is their accreditation manual. The
13 accreditation manual can be viewed to similar Part 35 in
14 terms of its effect, and it's a "thou shalt" and you've got
15 to do all those "thou shalt" to get accredited so that you
16 can't divorce these two, because whether or not you have a
17 quality assurance program in place, you still would have to
18 comply with everything in this nuclear medicine section in
19 the accreditation manual.

20 MR. TELFORD: Does the accreditation manual
21 require that all requisitions or referrals be reviewed?

22 MR. HENKIN: Well, hold on a second and I'll give
23 that to you.

24 MS. ALAZRAKI: I'm not sure that they actually say
25 that. They do want you to show them how you ensure

1 appropriateness of the studies. I'm not sure that they
2 spell that out.

3 MR. HENKIN: There is something in here that deals
4 with it. I didn't underline it so I need to go through it
5 for a second.

6 MR. WIEDEMAN: It is right before standard.

7 MR. HENKIN: A planned and systematic process for
8 monitoring and evaluating the quality and appropriateness of
9 nuclear medicine services.

10 MS. ALAZRAKI: Yes, so this is the process that we
11 use. And that's a medical question.

12 MR. HENKIN: That's required characteristics under
13 the first section. Now you see you have to grade yourself
14 and then the inspector has to grade you as well as to
15 whether you've done that.

16 MR. BRINER: Why don't you explain about the
17 accreditation manual has standards, and that happens to be
18 under standard no. 1, NM.1, and the required characteristics
19 under that standard listed, and this happens to be 1.3.9,
20 and all of these things have to be there in order to satisfy
21 that standard.

22 MR. TELFORD: Well let's look at the second
23 function -- to offer procedures and render diagnostic
24 interpretations in a timely manner so as to assist the
25 medical treatment of the patient. And the indicator is

1 monitor the interval between the completion of procedures
2 and the distribution of the final reports.

3 The review is, timeliness data will be gathered
4 from a random sample of not less than 10 percent of all
5 diagnostic procedures performed in each month. The average
6 monthly value will be reported and compared to the threshold
7 value.

8 So the intent here is to make sure that the
9 reports are delivered in a timely manner. Is that true?

10 MS. ALAZRAKI: Yes.

11 MR. TELFORD: Okay, this is an area that we will
12 not delve into.

13 MS. ALAZRAKI: Right.

14 MR. TELFORD: So while this may be something of
15 interest to JCAHO, we would not delve into this.

16 MS. ALAZRAKI: And then again, this is just one
17 indicator which comes under this function at one point in
18 time, but actually over the course of two years we may have
19 four different indicators that would come under this
20 function at different times.

21 MR. TELFORD: The other indicator under that same
22 function is to monitor the scheduling delay for routine
23 outpatient bone scans.

24 MS. ALAZRAKI: As an example.

25 MR. TELFORD: As an example?

1 MS. ALAZRAKI: Because it's a procedure that we do
2 a lot of.

3 MR. TELFORD: Okay.

4 MS. ALAZRAKI: So there's a good indicator of what
5 the scheduling delays are.

6 MR. TELFORD: All right, so we found --

7 MR. HENKIN: I would also refer you to the ACNP
8 inspector's manual, the 1988 edition, page 15, in which we
9 have principals -- we don't call them standards, but they
10 have the same effect in terms of practice accreditation --
11 and in 1-10 it says, "The nuclear medicine physician shall
12 be responsible for the quality and safety of all procedures
13 performed at his direction. This responsibility includes
14 assuring that the staff, under his direction, are properly
15 trained and competent to perform each procedure in which
16 they are directed to participate. Only the responsible
17 nuclear medicine physician shall delegate responsibility to
18 other persons to perform patient care tasks."

19 MR. TELFORD: Does JCAHO have a similar
20 requirement?

21 MR. HENKIN: They make safety the responsibility
22 of the physician as well.

23 MR. TELFORD: How about FERT? This basically says
24 that the people under your direction have to understand what
25 they're about to do before they do it, and it's the

1 responsibility of the nuclear physician to ensure that.

2 MR. HENKIN: Okay, well here, NM.1.13 out of
3 JCAHO, where "Responsibilities of the director of the
4 diagnostic and/or therapeutic nuclear medicine department/
5 service which may be appropriately delegated include, but
6 need not be limited to, the following," and they go through
7 half a page.

8 MR. TELFORD: All right.

9 MR. HENKIN: "Approaching the process or processes
10 for determining the qualifications and competence of
11 department/service personnel who are not independent
12 practitioners and who provide patient care services."
13 That's NM 1.3.3. So, I think that that does cover that
14 question.

15 MR. TELFORD: Where's the one about making sure
16 that people understand?

17 MR. HENKIN: Qualifications and competence.

18 MR. TELFORD: Okay. I am not sure that -- what do
19 you want beyond qualifications and competence?

20 MR. HENKIN: Oh. Well, it's the language in 1-10
21 under ACNP.

22 MR. TELFORD: ACNP is considerably wordier
23 JCAHO.

24 [Laughter.]

25 MR. HENKIN: That's okay.

1 MR. TELFORD: Once again, 1-10, in my
2 interpretation, would meet the objective of 35.35 number 4,
3 objective number four, "Assured current medical use -- no,
4 no. I'm sorry. Not that one. It would be five.

5 MR. HENKIN: Well, four is pretty close.

6 MR. BRINER: Now, you've got 1.3.7, too, which
7 says "Developing comprehensive safety rules in cooperation
8 with the hospital's safety committee and the hospital's
9 radiation safety committee if one exists."

10 MR. WIEDEMAN: It's the end of number four. ". .
11 . is understood by the responsible individuals." Of course,
12 that's how the institution would implement that particular
13 objective. Training, qualifications.

14 MR. BRINER: Now, if you want to go back to NM.4
15 under Standards, how do you know that something is being
16 looked at after the fact? In that standard, it says, "As
17 part of the hospital's quality assurance program . . . " the
18 hospital's quality assurance program, I'll emphasize, ". . .
19 the validity and appropriateness of diagnostic and/or
20 therapeutic nuclear medicine services are monitored and
21 evaluated in accordance with certain standards under the QA
22 manual that can be picked up that way." That's Standard No.
23 NM 24, saying that the hospital itself is looking at --

24 MR. TELFORD: Where in this program does it
25 address things like the training?

1 MS. ALAZRAKI: Okay. That comes under the
2 hospital's QA program, which we are part of, but it's not in
3 here.

4 MR. TELFORD: Okay.

5 MS. ALAZRAKI: But the hospital credentials and
6 authorizes every physician.

7 MR. TELFORD: Let me ask -- does it say that the
8 technologists have to be trained and understand the clinical
9 procedures manual and trained in the procedures they're
10 about to do. So, that's covered elsewhere.

11 MS. ALAZRAKI: Right.

12 MR. TELFORD: Okay.

13 MR. HENKIN: Basically, it requires that a job
14 description exists for everybody, okay, that's out there,
15 and that the job description be appropriate to the tasks
16 undertaken.

17 MS. ALAZRAKI: And that the credentials of the
18 individual be appropriate for the job.

19 MR. TELFORD: Shall we go to page two?

20 MR. HENKIN: I guess I had one more I wanted to
21 read you out of here. We lost it for a second. NM 3.1 on
22 page 123, "Requests/referrals for diagnostic and/or
23 monitoring and/or radionuclide therapy procedures include
24 the study or studies requested and appropriate data to aid
25 in the performance of the procedure requested."

1 MR. TELFORD: Which one is that?

2 MR. HENKIN: NM 3.1 in the JCAHO.

3 MR. TELFORD: Thanks. What effect does that have
4 in the department? What does that bring about?

5 MR. HENKIN: That's addressing your issue of
6 making sure there's appropriate therapy and appropriate
7 supervision of therapy, okay, and that the studies be
8 reviewed. That's a good deal of what you've been talking
9 about.

10 MR. BRINER: And it goes back to the standard on
11 the previous page, NM.3, where, "Reports of consultations,
12 interpretations of diagnostic studies and radionuclide
13 therapy procedures are included in a patient's medical
14 records."

15 MR. TELFORD: Okay.

16 MR. HENKIN: Now, again, I think one of the things
17 you have to realize is that JCAHO requires the hospital to
18 identify the privileges that every physician has.

19 MS. ALAZRAKI: Exactly.

20 MR. HENKIN: For example, I'm credentialed by the
21 hospital to perform diagnostic and therapeutic nuclear
22 medicine procedures. I am not credentialed to perform
23 radiotherapy with sealed sources, for example, even if I
24 might so qualify, or diagnostic radiology. The hospital
25 does not accredit me to do that.

1 When you look here, it's discussing the fact that
2 only individuals with delineated clinical privileges to
3 perform and/or interpret diagnostic and/or monitoring
4 procedures and supervise radionuclide nuclide therapy
5 procedures authenticate reports. That refers back to the
6 first page, describing what JCAHO thinks a nuclear medicine
7 physician should be who is supervising the department, which
8 are considerably more stringent standards than NRC has, as
9 it turns out.

10 MS. ALAZRAKI: That's right. They require Board
11 certification for the director of a nuclear medicine
12 department, either ABNM or ABR Nuclear Radiology Special
13 Competence.

14 MR. HENKIN: And in 1.2.1.

15 MR. TELFORD: Could we go to page two of this
16 plan? The first item is -- the function is "To perform each
17 procedure in such a way as to optimize the quality of the
18 diagnostic information available. The indicator is to
19 monitor the accurate preparation and administration of all
20 radiopharmaceuticals." The review says to be reviewed and
21 summarized monthly. So, I take that to mean that there's a
22 report that's issued monthly as to what was administered?

23 MS. ALAZRAKI: Exactly. Right.

24 MR. TELFORD: Okay. That the correct isotope,
25 chemical form, dose, etcetera --

1 MS. ALAZRAKI: Well, what's reported is any
2 deviation from the correct isotope.

3 MR. TELFORD: Okay. So, you identify any
4 deviations --

5 MS. ALAZRAKI: Although, in our records, you could
6 go through and find every radiopharmaceutical that you want
7 which has been administered during the month.

8 MR. TELFORD: So, your records would indicate --

9 MS. ALAZRAKI: But the minutes will reflect --

10 MR. TELFORD: -- what was directed.

11 MS. ALAZRAKI: Exactly.

12 MR. TELFORD: What was supposed to have been given
13 in terms of dose, chemical form, physical form, isotope,
14 etcetera.

15 MS. ALAZRAKI: No. The minutes won't --

16 MR. TELFORD: No, the directives.

17 MS. ALAZRAKI: Right.

18 MR. TELFORD: Your records.

19 MS. ALAZRAKI: Right.

20 MR. TELFORD: But the minutes talk about
21 identifying any deviations --

22 MS. ALAZRAKI: Any deviations, because otherwise,
23 our minutes would be 70 pages long.

24 MR. TELFORD: -- that were not according to the
25 directives which were in the record.

1 MS. ALAZRAKI: Right.

2 MR. TELFORD: Okay. Well, that's exactly what
3 we've got in Number 7. "Ensure that any unintended
4 deviations from a prescription or a diagnostic referral to
5 the clinical procedures manual is identified and evaluated."
6 But you issue a report monthly. Who signs the report?

7 MS. ALAZRAKI: We issue the minutes monthly, and I
8 sign the minutes.

9 MR. TELFORD: Okay. Authorized user, nuclear
10 physician signs minutes. Okay.

11 This other indicator here of "Monitor the
12 performance of all imaging and CAT instrumentation through
13 routine quality control testing," and then the review is
14 daily or weekly or monthly. You want to be within five
15 percent of a mean for uniformity. This is really equipment
16 quality.

17 MS. ALAZRAKI: This is quality control.

18 MR. TELFORD: Of equipment, right?

19 MS. ALAZRAKI: It's quality control.

20 MR. TELFORD: Make sure that the camera is
21 flooded, and all that?

22 MS. ALAZRAKI: Right.

23 MR. TELFORD: Okay. Well, the first item on this
24 page, the reporting of what was actually administered, that
25 certainly is in accord or in concert with one of the

1 objections, whereas the second one of equipment quality, we
2 haven't gotten into that. With any luck, we won't.

3 MS. ALAZRAKI: Right.

4 MR. KLINE: Let me comment also on the second page
5 of the annual quality assurance plan. Your data and review
6 mentions to be reviewed and summarized monthly. You're
7 somewhat indicating that this one criteria is audited
8 monthly. So, you're falling into part of Item 8, though
9 this is focused only in this one area.

10 MS. ALAZRAKI: What -- item 8?

11 MR. KLINE: Item 8 of 35.35, where they talk about
12 a comprehensive audit, though this is not comprehensive, but
13 this is one aspect of an audit. So, you're starting to
14 address that issue, also, when you specify a time interval,
15 which is satisfying that 35.35 (8)(b)(1). Do you see that,
16 where they call out a procedure for conducting an audit at
17 intervals no greater than twelve months to verify compliance
18 of all aspects of the quality assurance program.

19 This is part of what you're doing here, though
20 it's not maybe a comprehensive audit. I think the latitude
21 is that if you have other examples in here -- no doubt, you
22 do, where you talk about quarterly and some other things --
23 these also can fall into that, and it does become
24 comprehensive in that sense, again addressing these elements
25 -- the intent is to address each of the one through seven

1 elements in this comprehensive review, assuming that the
2 seven elements are met in the existing JCAHO guideline in
3 this example that you brought forth.

4 MR. TELFORD: What Ed is saying that the proposed
5 35.35 envisions an annual audit to allow the licensee to
6 review their program to see if it's still adequate.

7 MR. BRINER: No, no. It's up to you. You can do
8 as many as you want, but once every twelve months.

9 MS. ALAZRAKI: Well, the way the quality assurance
10 program works, at least in our institution, I mean in
11 addition to the one-month minutes, there is a quarterly
12 review which is done by the hospital QA committee.

13 MR. CAMPER: When we look at nuclear medicine
14 services and we see the various standards, this is all
15 encompassing in that it would address brachytherapy --

16 MS. ALAZRAKI: We have nothing to do with
17 brachytherapy and nothing to do with teletherapy. Unsealed
18 sources. Unsealed sources.

19 MR. CAMPER: Is there a section similar --

20 MR. HENKIN: Yes. I have never looked at it but I
21 know it exists. It exists for every hospital service
22 department.

23 MR. CAMPER: I have the same problem. I've not
24 seen one on brachytherapy.

25 MS. ALAZRAKI: I have never seen one either,

1 frankly.

2 MR. KLINE: The Quarterly Review by the Quality
3 Assurance Committee usually involves that, so you have
4 somewhat --

5 MR. HENKIN: That is a hospital-wide effort.

6 MR. KLINE: -- somewhat of an audit function in
7 that sense --

8 MR. HENKIN: Each department's quality assurance
9 report is brought before the hospital-wide quality assurance
10 committee usually at a quarterly meeting. If you have got
11 three reports they may lump them together as one but they
12 will present each department's quality assurance efforts.

13 MR. CAMPER: Does the JCAH have a requirement as
14 relates to time interval for a comprehensive audit?

15 MR. HENKIN: It's an ongoing process in the JCHO's
16 view. It is not one that is done once a year. It's a
17 continuing process.

18 MR. TELFORD: Monthly and quarterly.

19 MS. ALAZRAKI: Monthly and quarterly, right.

20 MR. HENKIN: They want to see that you are
21 consistently reviewing quality assurance, not that you do it
22 once a year or just before their inspection. They don't buy
23 that.

24 MR. TELFORD: Okay, could we go to page 3?

25 The function is to report the findings of each

1 procedure in an accurate and consistent manner. The
2 indicator is to monitor the interobserver variability for
3 three phase bone studies and SPECT Thallium studies.

4 The review is these results will be summarized
5 quarterly. Any individual whose interpretations exhibit a
6 pattern of both consistence and significant nonagreement
7 will undergo structured re-education.

8 This is to make sure that the people that are
9 reading the films are doing so correctly. This is an area
10 that we would not get into because this truly is medical
11 judgment.

12 MS. ALAZRAKI: Right.

13 MR. HENKIN: It is an area that the joint
14 commission may be backing out of too. They've got a lot of
15 trouble with this.

16 MR. TELFORD: The next function is to provide a
17 safe environment for patients and staff.

18 The indicator is monitor staff compliance with
19 Universal Precautions Policy and Infectious Control
20 procedures.

21 The review is supervisors will report all
22 deviations from this policy.

23 The results will be summarized on a monthly basis.
24 Corrective actions will be undertaken for each deviation.

25 MS. ALAZRAKI: So you have to look at the minutes

1 to see whether there have been any deviations. Basically
2 the Infection Control procedures are well documented in the
3 hospital quality assurance plan and the university
4 precautions policy is also well documented, so the details
5 of that are in other documents

6 MR. TELFORD: Your first indicator is infectious
7 diseases --

8 MS. ALAZRAKI: Infection control.

9 MR. TELFORD: Infection control, excuse me. The
10 second indicator is monitor staff radiation exposure and the
11 review is whole body exposures will be measured by film
12 badge not to exceed 160 millirems per month and exposures
13 measured by TLD not to exceed 5.5 rems per month. Data to
14 be summarized monthly.

15 This is an area that of course the Commission is
16 involved, interested in, but it is from Part 20, not from
17 Part 35.

18 Your third indicator under that same function
19 would be monitor the laboratory and patient areas to
20 determine the presence of radioactive contamination.

21 The review is any readings which exceed either
22 three times background level or twice the previous reading
23 will require the initiation of immediate corrective action.

24 Again that is a Part 20 requirement and not a Part
25 35 requirement.

1 Okay, page 4. Page 4 doesn't have any functions.
2 Are these continuations --

3 MS. ALAZRAKI: Continuations, right.

4 MR. TELFORD: We are continuing the function to
5 provide a safe environment for patients and staff.

6 Okay, the first indicator is monitor staff
7 compliance with EUH requirements for an annual BCLS CPR
8 recertification, so that's outside of Part 35 interests.

9 The second one on this page is monitor the
10 readiness of the emergency resuscitation equipment. Again,
11 that is outside of Part 35 considerations.

12 The third indicator is monitor staff radiation
13 exposure and thyroid radiation burden due to participation
14 in the therapeutic administration of Iodine-31 for treatment
15 of Graves Disease or Thyroid Cancer.

16 The review there is corrective action will be
17 initiated whenever a bioassay measurement exceeds 24
18 microcuries. Results will be summarized monthly.

19 So this is for safety of workers and it's really
20 not a Part 35.

21 It is a Part 35?

22 MR. WIEDEMAN: Yes. Whenever they do CA therapy
23 they have to do a bioassay.

24 MS. ALAZRAKI: Right, right.

25 MR. TELFORD: It's part of 35 but not 35.35.

1 MR. WIEDEMAN: Right, that's correct.

2 MR. TELFORD: Okay, thank you, Darrell. Keep me
3 honest.

4 There is one more page, which is the addendum.

5 The function is for implementation during March.

6 The indicator is monitor the time interval for the
7 completion of all diagnostic reports in order to identify
8 any outliers which require more than seven days for
9 completion and distribution.

10 The review is all outliers identified by this
11 monitor will be reviewed for patterns of similarity with
12 regard to report generation and verification process.

13 This is --

14 MR. BRINER: They will be involved at six o'clock
15 in the morning every morning until they are not outliers
16 anymore.

17 MR. TELFORD: This is to ensure timely reports,
18 timely diagnostic reports.

19 MS. ALAZRAKI: Yes.

20 MR. TELFORD: So this would be outside 35.35 so
21 after we review this plan then we find two sets of function
22 indicator review that apply to --

23 MS. ALAZRAKI: Well, probably most of the others
24 would fall under these functions, except you didn't
25 specifically identify them.

1 MR. HENKIN: Some of the others are required by
2 the accreditation manual anyway.

3 MS. ALAZRAKI: Right.

4 MR. HENKIN: So they don't fall into the plan. If
5 you look at --

6 MR. TELFORD: Let's go to the eight objectives of
7 35.35.

8 Let me tell you which ones we have already picked
9 up so far.

10 MR. HENKIN: You're here to tell us the ones we
11 have to worry about.

12 MR. TELFORD: Maybe you have done that well.

13 That would be good.

14 Number one is ensure that any medical uses
15 indicated for the patient's medical condition. You have
16 taken care of that one in this plan.

17 Two, ensure priority in medical use, that a
18 prescription is made for any therapy procedure, any
19 diagnostic or any pharmaceutical procedure involving more
20 than 30 microcuries of IO-125 or IO-131.

21 Let's go off the record a minute.

22 [Discussion off the record.]

23 MR. TELFORD: Number two then is probably covered.

24 MR. HENKIN: One and two are both covered.

25 MS. PICCONE: I don't understand how that's

1 covered.

2 MR. TELFORD: Okay.

3 MS. PICCONE: This is one institution's quality
4 assurance plan.

5 MS. ALAZRAKI: Correct.

6 MS. PICCONE: This is their response to JCAHO and
7 their response to their function is to review every
8 requisition. The hospital down the street can review ten --

9 MR. BRINER: This is what we are talking about
10 right now, this one program. That's all we're asked to
11 evaluate.

12 MR. HENKIN: All he's doing is he's just doing
13 that one.

14 MS. PICCONE: Not JCAHO in general.

15 MR. TELFORD: No, we're taking this program as an
16 example of what a program would look like if it were
17 following JCAHO. Given that there is some variability among
18 programs that would follow JCAHO --

19 MS. PICCONE: That's just my point. To follow
20 JCAHO, you don't need to do this. Is that correct?

21 MS. ALAZRAKI: Well, you need to satisfy all of
22 this.

23 MS. PICCONE: But you can satisfy it by --

24 MS. ALAZRAKI: -- by some other approach.

25 MS. PICCONE: By looking at ten requisitions a

1 month?

2 MR. HENKIN: I think the point of the JCAHO plan
3 is that institutions identify those areas that represent
4 potential problems for them and that is what they are
5 supposed to monitor.

6 In other words, if you don't have a problem in a
7 given area, JCAHO isn't asking you to monitor that. They
8 are asking you to identify the areas of particular problem
9 that you think you have got at your institution and monitor
10 those areas.

11 For example, many institutions have problems
12 distributing radiology and nuclear medicine reports -- just
13 the physical distribution, so there is an area that they
14 included in their quality assurance plan because they know
15 they have got a potential problem with that and they are
16 monitoring it.

17 If they have never had a therapeutic
18 misadministration, would it be appropriate for them to be
19 monitoring therapeutic misadministrations?

20 MR. TELFORD: Let me ask the question like this.
21 This plan says that this is for both diagnostic and
22 therapeutic procedures.

23 It has the same review function, that is to have a
24 resident review every requisition.

25 Do you in fact do something different for therapy

1 procedures that is a little bit over and above what you
2 would do for diagnostic procedures?

3 MS. ALAZRAKI: Well, the appropriateness is the
4 same thing, whether it is therapy or diagnosis. You
5 establish the appropriateness and the attending physician is
6 more involved in every therapeutic administration than in
7 the diagnostic administrations.

8 MR. HENKIN: The answer to that is it depends on
9 the hospital, that in a teaching hospital considerably more
10 time goes into a therapeutic procedure because you are
11 trying to teach the resident how you evaluate the dose, how
12 you evaluate the patient, et cetera, et cetera, and the
13 opportunity for teaching that is considerably less than on
14 the diagnostic procedures.

15 If you look at the data that just was received
16 last week from the Tsaio Report, the RBRVS Time Effort
17 Report, he concludes about four hours of physician time go
18 into a therapeutic nuclear medicine procedure by survey.
19 That is data he collected by survey. I think I am quoting
20 that right. It's about four hours that -- across the board.

21 Now there is no way four hours goes into most
22 diagnostic procedures so the answer is there is an order of
23 magnitude difference in the therapeutic procedure according
24 to Tsaio's measurement. The average physician time, if I
25 remember correctly -- I'm sorry this is in the record -- but

1 somewhere between 20 and 40 minutes for a diagnostic
2 procedures depending on some of the procedures but it is
3 about four hours for a therapeutic procedures.

4 MR. TELFORD: So what you're really saying is --

5 MR. WIEDEMAN: What you got away with. You at
6 least have to call the drugstore, don't you, to tell the
7 pharmacist you're going to send Joe Blow down to --

8 MR. HENKIN: Sure. But in essence I've called the
9 drugstore by prescribing for a bone scan that you are to use
10 20 millicuries of ⁹⁹MDP, unless it was a child. In the
11 case of a child, use the following computation method to
12 compute the dose. That's my prescription.

13 MR. TELFORD: Okay, and that's in the manual?

14 MR. HENKIN: That's in the manual, yes.

15 MR. TELFORD: Can you believe it, we're agreeing?

16 Objective 3 is merely, first of all, recognizing the way
17 business is done and incorporating those procedures --

18 MR. HENKIN: Can you read objective 3 again?

19 MR. TELFORD: And it's even in accordance with
20 JCAHO. 35.35, this is for diagnostics that prior to medical
21 use you have a referral, oral prescription if you like, and
22 it's made for any diagnostic procedure. Now, the reason
23 that I know that the vast majority of hospitals operate on
24 oral directives and referrals is that our proposed
25 regulations envision a written referral.

1 Now, when I conducted five workshops with 70
2 licensees, let me tell you how many times I heard, we don't
3 do business that way. Our folks were referred by the phone.
4 Only military hospitals.

5 MR. HENKIN: Well I agree with you, I think that's
6 a correct statement. It happens not to be the way we work,
7 but it happens to be a correct statement, that most
8 outpatient referrals are by telephone, that is correct.

9 MR. TELFORD: Yes.

10 MR. BRINER: But somewhere in the record of that
11 patient at that institution there better damn well be an
12 order signed by a physician.

13 MS. ALAZRAKI: Oh, yes, there's an order on a
14 chart somewhere.

15 MR. BRINER: On a chart.

16 MR. TELFORD: When is it signed?

17 MR. HENKIN: It may actually be in our case, for
18 example, if you come from outside our system, if you're not
19 part of the Loyola system as a patient, you come with a
20 prescription blank from your doctor for the test, okay,
21 which gets stapled in as part of your medical record.

22 In the internal system, there's an order sheet in
23 the patient's chart on which the physician order the test.
24 And then there's another sheet he has to sign his name on
25 that's transmitted to nuclear medicine and made part of the

1 permanent record. So that most of your scheduling is done
2 orally. At some point there's usually a piece of paper that
3 shows up.

4 MR. TELFORD: After the fact.

5 MR. HENKIN: After the fact.

6 MR. TELFORD: Okay. In this plan we have a
7 resident reviewing every requisition, whether it's
8 diagnostic or therapeutic. We're paying a little more
9 attention to therapy, quite a bit more to therapy. in our
10 objectives here, objective 2, to endeavor to get the
11 authorized user in the loop.

12 In 3, it's clear that sometimes the authorized
13 user is not in the loop. But in this plan, how do we
14 distinguish between what happens for diagnostics and what
15 happens for therapy, because clearly we're looking for a
16 little bit more.

17 MS. ALAZRAKI: Well, in fact, no therapy is ever
18 done without the certified physician being involved. That
19 just doesn't happen.

20 MR. TELFORD: Okay.

21 MS. ALAZRAKI: A resident physician would never
22 institute a therapy in nuclear medicine without having
23 discussed it or consulted or involved the nuclear physician.

24 MR. TELFORD: Is that an unwritten requirement?

25 MR. HENKIN: That's what called "stupid" again,

1 because any attending physician that permits resident
2 physicians to initiate therapy procedures on his own is
3 crazy and self-destructive.

4 MS. ALAZRAKI: Well that's practice of medicine.

5 MR. TELFORD: Therefore, there is a practice that
6 you do, but it's not here, so am I to correctly conclude
7 that it's not required by JCAHO?

8 MR. HENKIN: Yes, JCAHO permits us to delegate
9 within the department certain things. And if you look, you
10 can delegate certain things. I could delegate to a resident
11 the therapeutic procedure if I so desired.

12 MR. TELFORD: Or does 2.2.3 cover it?

13 MR. HENKIN: Yes, that simply requires my
14 supervision, it doesn't require me to be personally,
15 physically involved -- rather, it requires me to be
16 personally involved but not physically involved. And very
17 commonly, that's the way the case is, that the resident sits
18 down with the attending physician, they talk about the
19 patient, look at the lab tests, decide what they're going to
20 do with it, and the resident goes off and does it.

21 MR. TELFORD: Part 35 would allow the same thing,
22 because it says the authorized user or any physician under
23 the supervision of an authorized user.

24 MR. HENKIN: What you're proving to me is we don't
25 need Part 35 because it's all here in JCAHO already.

1 MR. TELFORD: So you either have the first three
2 or something very close.

3 MR. HENKIN: Okay.

4 MR. TELFORD: And I'm giving credit for some
5 procedures which are not in the plan.

6 MR. HENKIN: Okay.

7 MR. TELFORD: Item 4 in the objectives -- ensure
8 prior to medical use that either you have a diagnostic
9 referral and a clinical procedures manual or the
10 prescription, as understood by responsible individual. Of
11 course you have the diagnostic referral for the diagnostic
12 case, you have the prescription for the therapy case.

13 So in no. 4 we have seen a lot of cases and
14 misadministrations where there was miscommunication or
15 people just didn't understand, sort of a lack of supervision
16 or a lack of something.

17 MS. ALAZRAKI: I don't know whether it was a lack
18 of supervision. What we said was in those misadministra-
19 tions was it was human error.

20 MR. HENKIN: That they didn't understand what was
21 said to them.

22 MR. WIEDEMAN: Or they couldn't read the doctor's
23 handwriting.

24 MR. HENKIN: Or they couldn't read or they didn't
25 know. I think we agree that there is miscommunication at

1 times among all medical personnel and among all people.
2 We're having some of it today. And that people say one
3 thing and another person hears something else. The game
4 that gets played is called telephone, and we whisper in
5 somebody's ear and it goes around the table and you see what
6 comes out at the other end of the table, if it's anything
7 like what went in the first ear.

8 But that is a well-known phenomenon and that is
9 like talking to your children. How many times do you say
10 the same thing to your children before they finally get what
11 you're saying?

12 MS. ALAZRAKI: But that is not a usual event.
13 That is a rare deviation.

14 MR. HENKIN: That's right.

15 MR. TELFORD: Well, I didn't want to put words in
16 your mouth. What I was really trying to say was, when we
17 looked at the misadministrations we saw examples of
18 miscommunication and lack of understanding, et cetera.
19 Therefore, our intention was to have an objective that ought
20 to be part of a performance-based program that that issue or
21 those concerns be addressed. I didn't say that I see it in
22 this example program.

23 MR. BRINER: That comes under NM.2 for the
24 standard. The standard says there are policies and
25 procedures to assure effective management, safety, proper

1 performance, equipment, effective communication, and quality
2 control in increments as far as service.

3 MR. TELFORD: Effective communication, which one
4 is that?

5 MR. HENKIN: NM.2 as a standard.

6 MR. TELFORD: Oh, NM.2 standard.

7 MR. BRINER: And you look under that and --

8 MR. TELFORD: How about 2.2.4?

9 MR. BRINER: That's it. There are policies and
10 procedures for the preparation of patients for diagnostic or
11 therapeutic procedures.

12 MR. HENKIN: I think even .7 would fit in there,
13 the preparation, administration of diagnostic agents.

14 MR. TELFORD: How does that fit?

15 MR. HENKIN: Well, that's the really the key to
16 some of your misadministration questions. How do you
17 prepare and administer the stuff you give? It says you've
18 got to have written procedures for that, they're requiring a
19 written procedure for that.

20 MR. TELFORD: The other clinical procedures
21 manual?

22 MR. HENKIN: Yes, it's part of the clinical
23 procedures manual.

24 MS. ALAZRAKI: Right, procedures manual.

25 MR. HENKIN: How you reconstitute a kit, how you

1 identify a patient.

2 MR. TELFORD: So you would be instructing the
3 technologists in making sure that they understand all those
4 procedures and can carry them out appropriately?

5 MR. HENKIN: That's right.

6 MR. TELFORD: So if you took all of those, NM.2,
7 2.2.4, 2.2.7, then you would get --

8 MR. BRINER: The sum total of that you'd have
9 the --

10 MR. TELFORD: Objective no. 4?

11 MR. BRINER: That's right.

12 MR. TELFORD: Okay.

13 MR. HENKIN: I think 5 is covered by the same
14 thing, it's the same group, I think, covers 5.

15 MR. TELFORD: To make sure that the medical use in
16 accordance with either the referral or the prescription. I
17 should say the referral and the manual because they work
18 together. Well now this doesn't speak to communication as
19 much as it speaks to what's actually done. For therapy,
20 then, maybe 2.2.3 speaks to --

21 MR. BRINER: Okay, NM.2.2, 10.1.3.

22 MR. TELFORD: 10.1.3, okay.

23 MR. BRINER: Identity of recipient, identity of
24 radionuclide activity of radionuclide administered and date.

25 MR. TELFORD: Okay, who does that?

1 MR. HENKIN: Maintenance of records, that it
2 allows me to decide who's going to maintain those records
3 and how the records are going to kept.

4 MR. TELFORD: I don't mean to quibble, but
5 objective 5 says "prior to medical use." No, I'm sorry, I'm
6 wrong, it just says make sure that the medical use in
7 accordance with. So, it's not prior to. I stand corrected.

8 MR. HENKIN: Let me point out that --

9 MR. TELFORD: So you would say the record --

10 MR. HENKIN: You don't do these records
11 retrospectively, because you can't. I don't know of any
12 physicians who will administer a dose that hasn't been
13 calibrated, and that to calibrate the dose, the dose slip
14 has the patient's identity on it, it has the date, it has
15 the nuclide and it has the amount, in a minimum, some of
16 them have more than that. But that's the minimum that we'd
17 find on a dose sheet in any nuclear laboratory, and like I
18 said, they may have more, they may have much more than that
19 depending on how they're organized, but that's certainly the
20 minimum.

21 MR. TELFORD: Does it have the chemical form here?

22 MR. HENKIN: Does it have the chemical form? The
23 dose sheet normally would have the chemical form.

24 MS. ALAZRAKI: Yes, it would.

25 MR. TELFORD: This says --

1 MR. HENKIN: Identity of recipient right on the
2 form.

3 MR. TELFORD: What?

4 MR. HENKIN: It says identity of recipient,
5 identify of radionuclide, activity of radionuclide.
6 Identity to me is chemical form. I mean it's not I-131, but
7 sodium iodide.

8 MS. ALAZRAKI: I think that's fairly standard on
9 those records.

10 MR. HENKIN: That would be pretty standard in most
11 places.

12 MR. TELFORD: All right, so you would say that
13 because JCAHO requires the records of what was administered,
14 then you have objective 5.

15 MR. HENKIN: Now that's a contemporary record,
16 that's made at the time you're doing it because there's no
17 way to do it after the time you do it.

18 MR. CAMPER: Allow me to pick up what I think I
19 hear, I think, going on and the point you're trying to
20 making. Is it fair to say that the JCAH program is a
21 performance-based program?

22 MR. HENKIN: Absolutely.

23 MR. CAMPER: Then to look at a particular example
24 of any given institution it's going to show you how that
25 institution has approached a standard.

1 MR. HENKIN: Correct.

2 MR. CAMPER: Okay. It seems then that the thing
3 that would be very useful to the Commission would be an
4 analysis where each of the eight objectives were looked at
5 separately and the standard and the required characteristic
6 were identified and linked to each objective.

7 MR. HENKIN: That's what we're doing here.

8 MR. CAMPER: What we're doing is we're stepping
9 through one example.

10 MR. HENKIN: I'd like to do that --

11 MR. CAMPER: What I'm suggesting is, as we proceed
12 from this point forward, if the ACNP and the SNM are willing
13 to do it, if someone could go through and take each of the
14 objectives --

15 MS. ALAZRAKI: We could do it right now.

16 MR. CAMPER: But I mean in something that we could
17 use, in written form.

18 MR. TELFORD: If we could do that, it will be on
19 the record.

20 MR. CAMPER: Are we really going to now go through
21 every one of these and take every standard and identify it
22 in a fashion that we'll have something to work with in the
23 future?

24 MR. TELFORD: That is a good question. I mean,
25 let's give it a go here and then resolve the completeness

1 theorem when we get done.

2 MR. BRINER: I think it might be more beneficial
3 to us for you to tell us what is not met by that standard,
4 what's missing, that we've been going over this thing 40
5 ways from Sunday here today.

6 MR. TELFORD: Let's do it this way. I can tell
7 you what we're trying to do here --

8 MR. BRINER: Look at JCAHO, and you tell us what
9 is missing and, I don't think you can do it --

10 MR. HENKIN: Dr. Alazraki's plan conforms to
11 JCAHO. How many items in your group of eight did it miss
12 on? And, are those covered in other parts of the JCAHO
13 requirements?

14 MS. ALAZRAKI: Yes, because it's over a period of
15 several years we will cover everything ultimately.

16 MR. TELFORD: Okay. Let's step through them.

17 MR. WIEDFMAN: The plan we're talking about is
18 just this plan, and not that.

19 MS. ALAZRAKI: That's what it's based on.

20 MR. HENKIN: What I'm saying is they be viewed
21 together --

22 MR. TELFORD: Okay. So that we are talking about
23 both of these.

24 MR. HENKIN: -- because no matter what's in your
25 quality assurance plan, you have to conform with everything

1 in the accreditation plan.

2 MS. ALAZRAKI: Right.

3 MR. HENKIN: And we're going to use the ACNP.

4 MR. TELFORD: Well, ACNP is much more extensive
5 than JCAHO.

6 MR. WIEDEMAN: The point I'm trying to get across
7 is what has been -- you know, unofficially, what are we
8 considering as being submitted to the NRC for evaluation?
9 Is it this plan? Is it a combination of both of these?

10 MR. HENKIN: The plan was a sample.

11 MS. ALAZRAKI: Also, you have to understand that
12 what you have here is not the whole plan. The hospital has
13 a whole QA plan which impacts nuclear medicine as well.
14 It's just that on a monthly basis, we don't review the
15 credentials of every physician; we don't review job
16 descriptions for every --

17 MR. WIEDEMAN: Sure.

18 MS. ALAZRAKI: And there are a host of other
19 things that you would find if you went through the whole
20 hospital manual.

21 MR. BRINER: If you want a document that is
22 functionality at the majority of hospitals, we'll say, in
23 this country, JCAHO is it. ACNP is not, because how many
24 hospitals --

25 MR. HENKIN: I can't even tell you off the top of

1 my head.

2 MR. BRINER: But JCAHO is widely used throughout
3 the hospital industry.

4 MS. ALAZRAKI: The other thing is that JCAHO over
5 a period of many years has evolved in understanding of and
6 now is getting to the point of being able to deal with the
7 tremendous variation in hospital nuclear medicine
8 structures. In other words, there are teaching hospitals,
9 there are community hospitals, there are military hospitals,
10 VA hospitals. They all have different routines, different
11 missions in a sense, other than the core of patient care,
12 and that all impacts on what is reasonable to do in a
13 quality assurance program.

14 MR. TELFORD: What drives the hospital to have its
15 quality assurance program?

16 MS. ALAZRAKI: JCAHO.

17 MR. TELFORD: Okay. We're doing Item 1 under the
18 objective, Objective No. 1. It looks like you're doing it.

19 Item 2 really says that you should have a
20 prescription for --

21 MR. BRINER: Okay. Let's stop right there. How
22 do you define a prescription, because there's a very precise
23 definition under the law.

24 MR. TELFORD: Well, we defined it in the proposed
25 rule as being a written directive.

1 MR. HENKIN: That's not the way the law defines
2 it.

3 MR. BRINER: That's not the way the law defines
4 it.

5 MR. HENKIN: The law defines a prescription as the
6 direction of a remedy or remedies for disease.

7 MR. TELFORD: I'm guilty. I'm guilty. Hang me.

8 MR. BRINER: That is not meant to be facetious.
9 It's typical of someone writing regulations in an area where
10 they really aren't well informed about --

11 MS. ALAZRAKI: On a day-to-day practice.

12 MR. TELFORD: For the purposes of discussion,
13 could we think of this as a written directive?

14 MR. BRINER: No.

15 MR. HENKIN: No, because it isn't always a written
16 directive, and it need not be a written directive.

17 MR. TELFORD: Okay. How can we describe this?

18 MR. HENKIN: I think the way the law describes it
19 is quite nice.

20 MR. TELFORD: Okay.

21 MR. HENKIN: A prescription is a direction of a
22 remedy or remedies for disease. It's a physician direction
23 to somebody to do something. Prescriptions can be for
24 procedures, they can be for pharmaceuticals, they can be for
25 any one of a number of things.

1 MR. TELFORD: Okay. We are talking about a
2 therapy case here, so the physician in the case you've
3 quoted analogously would be an authorized user, a nuclear
4 physician?

5 MR. HENKIN: I presume so.

6 MR. TELFORD: Can we use that as our working
7 discussion level definition?

8 MR. HENKIN: Okay. You've got an authorized user
9 who wants to decide how to treat somebody.

10 MR. TELFORD: Okay. So, he or she either writes
11 it down or verbally directs it.

12 MR. HENKIN: Okay.

13 MR. TELFORD: Is that acceptable?

14 MR. HENKIN: That's fine.

15 MR. BRINER: That's fine.

16 MR. TELFORD: Okay. Objective No. 2 would like
17 the authorized user to direct that the therapy be performed
18 or brachytherapy procedure -- excuse me -- teletherapy,
19 brachytherapy or nuclear medicine therapy if it involves
20 more than 30 microcuries.

21 MR. HENKIN: I think that JCAHO NM 3.2 deals with
22 that.

23 MR. TELFORD: NM 3.2. I was going to point out
24 what our Objective 2 tries to do, and then Objective 3, and
25 then look at how the example plan that we have does anything

1 different, okay? So, Objective 2, then, gets the authorized
2 user into being the director, into being the issuer of the
3 prescription as you've defined it. Objective 3 deals with
4 diagnostic referrals. So, it envisions that a referral
5 comes in, the referral agrees with the clinical procedures
6 manual, and the referral could be from a non-nuclear
7 physician, and that happens before a diagnostic procedure is
8 done or a prescription is issued.

9 MR. HENKIN: Okay. A clinical procedures manual
10 will not normally contain the indications for a procedure;
11 it will contain the procedure to be followed to carry out
12 the procedure because the decision on whether or not a
13 physician is appropriate is a physician decision that is not
14 prescribed in a procedure manual. A procedure manual is
15 what it says it is -- it's a how-to. It's a cook book.

16 MR. TELFORD: Yes, but didn't we do that back in
17 Objective 1?

18 MR. HENKIN: Not in the procedure manual, though.

19 MR. TELFORD: I didn't mean to imply that. The
20 referral comes in, and it says "bone scan."

21 MR. HENKIN: Fine. Somebody decides that's
22 appropriate.

23 MR. TELFORD: And this referral is from a GP, a
24 non-nuclear physician.

25 MS. ALAZRAKI: Correct.

1 MR. TELFORD: It comes to your department. Your
2 technologist then, using Objective No. 3, would say, "Bone
3 scan. It's in the clinical procedures manual. The patient
4 is here; it's the correct patient." The technologist will
5 handle the patient and do whatever the clinical procedures
6 manual says, which, incidently, was approved by the
7 authorized user, which is what you said, and then carry out
8 the study based on their training and the procedure
9 described in the manual. So, that's what's really
10 envisioned by 2 and 3.

11 In Objective 2, we have envisioned that the
12 authorized user, the nuclear physician, would be directly
13 involved to issue the prescription as you've defined it;
14 whereas in 3, it more or less recognizes the way that
15 diagnostic procedures are practiced in a majority of the
16 hospitals, with the nuclear physician not being directly
17 involved to issue a prescription or give any directions for
18 the diagnostic case; whereas in your plan --

19 MR. HENKIN: I'd like to see the evidence
20 documenting that nuclear physicians are not involved in the
21 therapy patients. I want to see somebody show me numbers
22 and data that says that's the case, because, for one thing,
23 they're in violation of JCAHO, and they're in violation of
24 good medical practice.

25 That may happen from time to time. I'm not saying

1 it doesn't happen. I want to see that it happens in
2 overwhelming numbers, justifiable to being fixed.

3 MR. TELFORD: Your first point that it's in
4 violation of JCAHO?

5 MR. HENKIN: Yes. It says here in NM 2.2.3 --

6 MR. TELFORD: Wait a minute. Let me find it.
7 Two-point-two-point-three.

8 MR. HENKIN: Page 121. The prescribing of nuclear
9 medicine, radionuclide therapy, and the supervision of the
10 cost of therapy by a qualified physician, and that's the
11 written policy and --

12 MS. ALAZRAKI: That's therapy.

13 MR. TELFORD: That's therapy. We're talking
14 diagnostics.

15 MR. HENKIN: I thought we were talking
16 diagnostics.

17 MR. TELFORD: No, sir.

18 MS. ALAZRAKI: There was a mix-up there.

19 MR. TELFORD: In Objective 3, it's just for
20 diagnostics.

21 MR. HENKIN: Okay. Try 2.2.4.

22 MR. TELFORD: Okay.

23 [Laughter.]

24 MR. TELFORD: Do you want to read it for me?

25 MR. HENKIN: The scheduling of and instruction and

1 procedures for the preparation of patients for diagnostic or
2 therapeutic procedures.

3 MR. TELFORD: What does it mean? What does it
4 say?

5 MR. HENKIN: It means that we are supposed to
6 provide instruction to our people how to prepare patients
7 and how to do diagnostic and therapeutic procedures.

8 MR. TELFORD: Okay. You could do that via a
9 clinical procedures manual, couldn't you.

10 MR. HENKIN: You could that in any number of ways.
11 This gives you the freedom to do it; it's just telling you
12 you've got to do it.

13 MR. TELFORD: Okay. That's directly in accord
14 with what I described.

15 MR. HENKIN: Right.

16 MR. TELFORD: The patient arrives from the GP to
17 your department to have a bone scan. You've complied with
18 2.2.4 of scheduling and instructing the technologist via the
19 clinical procedures manual. The nuclear physician does not
20 necessarily have to be directly in the loop to issue a
21 prescription using your definition in order for the
22 diagnostic procedure to be carried out by the technologist.
23 That's all we're saying, is that that's the practice --
24 excuse me -- the business is done --

25 MR. HENKIN: And that is the practice of medicine.

1 MR. TELFORD: Fine. No disagreement.

2 MR. HENKIN: That if a physician -- I mean, if I
3 call Walgren's and order tetracycline for a patient and
4 never give -- I'm not required to give Walgren's a written
5 prescription. Except for a narcotic, Walgren's need not
6 have a written prescription. They'll just take my verbal
7 order, and when the patient comes in, they'll hand him his
8 bottle of pills, and I don't have to follow it up with a
9 written prescription.

10 You have to do it right when the patient is
11 standing there.

12 MR. TELFORD: Then you would say likewise that
13 objective No. 6, to make sure you have got the right patient
14 is --

15 MR. HENKIN: It's also in there.

16 MR. TELFORD: -- 2.2.10.1.3.

17 MR. HENKIN: Yes.

18 MR. TELFORD: Is that correct?

19 MR. HENKIN: Sounds good.

20 MR. TELFORD: Okay, we're up to objective No. 7
21 then, ensure that any unintended deviation from either
22 referral in the manual or the prescription is identified and
23 evaluated. We saw that in the example program.

24 MR. HENKIN: That's NM.4 actually in the JCAHO.
25 It says as part of the hospital's quality assurance program

1 the quality and appropriateness of diagnostic and/or
2 therapeutic nuclear are monitored and evaluated in
3 accordance with a whole bunch of other standards that they
4 got in other places but basically that says that you have to
5 identify things that go wrong in your system.

6 MR. TELFORD: Okay, and that's why this plan has
7 that particular objective covered on page 2 of the monthly
8 reports, as stated in the meeting minutes, to report any
9 deviations and report those monthly and that's signed by the
10 nuclear physician.

11 MR. HENKIN: Most hospitals have at the present
12 time as part of their quality assurance program an incident
13 reporting system for all misadministrations that occur in
14 the hospital, diagnostic or standard therapeutic drugs, and
15 those are all reviewed by the quality assurance group
16 looking for systematic errors.

17 MR. BRINER: When the patient slips in the
18 hospital.

19 MS. ALAZRAKI: Right, that's an incident.

20 MR. HENKIN: That gets reviewed to see whether the
21 hospital is salting its front steps correctly in the winter
22 and things of that sort. That all is part of the same
23 system.

24 And No. 8 thank god we don't have to deal with,
25 right?

1 MR. TELFORD: No. 8 applies to teletherapy and
2 brachytherapy and is not your concern.

3 MR. HENKIN: That's right. When were these
4 issued?

5 MR. BRINER: These are issued yearly. This is the
6 1990 version.

7 MR. TELFORD: How much of a change from '89?

8 MR. HENKIN: Not much.

9 MR. BRINER: Not a great deal.

10 MR. HENKIN: Not very much change from '89. The
11 last big change was mid-'80s, okay, but their word'
12 changes a little bit from year to year but the b' ; outline
13 stays pretty much the same.

14 They haven't changed much actually since '86, '85,
15 something like that.

16 There was a big change around '85 and then
17 trickled changes after that.

18 MR. TELFORD: You said that ACNP -- did you say
19 something like more rigorous --

20 MR. HENKIN: I said wordier is what I said.

21 MR. TELFORD: Wordier?

22 MR. HENKIN: Yes. We take 15 or 20 pages to say
23 what they say in a smaller number of pages but we are
24 directing, first of all, we are directing it specifically at
25 a number of patient-related issues in nuclear medicine as

1 well that are of interest to you and I think you should look
2 at that to see what it says.

3 Anybody who goes through a JCAHO order would more
4 than satisfy anything you -- I mean an ACNP order would more
5 than satisfy anything in your draft because we are far more
6 extensive than even JCAHO is, but we are a purely voluntary
7 system.

8 I think this question of JCAHO being voluntary is
9 a little bit confusing. You must volunteer for a JCAHO
10 inspection if you want to be reimbursed for your hospital's
11 bills. If you do not have JCAHO accreditation, no third
12 party insurance company will pay you, so in that regard it's
13 a voluntary system. However you volunteer to go out of
14 business if you don't volunteer for the system, so that
15 while technically it's voluntary, in fact it is anything but
16 voluntary.

17 MR. WIEDEMAN: How about VA hospitals?

18 MR. HENKIN: They are now under JCAHO.

19 MS. ALAZRAKI: VA has multiple -- I mean more so,
20 more than JCAHO. They have their own internal audit
21 programs which touch -- which do quality assurance too. VA
22 also is on JCAHO.

23 MR. TELFORD: We have been through this example
24 program. We have touched on some of these requirements as
25 they were applicable to our objectives.

1 It turns out that this program embellished by some
2 of the hospitals' QA programs and embellished by the
3 requirements of JCAHO, although not written here, have to be
4 complied with because they are enforced by JCAHO.

5 Taking all of that, the eight objectives are met
6 so the question is what would you change?

7 MR. HENKIN: I would leave it alone. JCAHO is
8 doing a wonderful job. Why change anything?

9 MR. TELFORD: JCAHO is doing a good job. Let's
10 take that as a given but if we were going to evaluate these
11 objectives and say would we modify any of these, would we
12 delete any of these, would we retain any of these?

13 MR. BRINER: Why? I keep going back to why would
14 you want to do that?

15 MR. TELFORD: Let me see if I understand this
16 correctly, Captain Briner.

17 You would say merely somehow endorse JCAH program.
18 Let everybody comply with that.

19 MS. ALAZRAKI: That is what we would recommend.

20 MR. TELFORD: Why pick out only eight of the ones
21 that you are already complying with? Let people be
22 accredited by JCAH and grant them an exemption in nuclear
23 medicine for any regulations we might have.

24 MR. HENKIN: I still have a problem with that.
25 You are granting them an exemption for something you

1 shouldn't be regulating in the first place.

2 I think you should feel comfortable that you don't
3 have a problem because the joint commission is already doing
4 all of this and as a matter of fact takes a little more
5 every year that it's doing.

6 Every year it adds another layer to their system,
7 partly as the demands of the general public to assure that
8 there is quality health care overall and that as a result of
9 that there is already an accrediting body in place that is
10 doing the job.

11 Therefore, there isn't a need for anybody to even
12 lay down a regulation that says you have to conform with
13 joint commission because you have conform with joint
14 commission anyway.

15 Now if you want to discuss anything, and I am not
16 sure I am competent to discuss it, you may want to discuss
17 whether or not you have a role in free-standing operations
18 that are not joint commission accredited.

19 MS. ALAZRAKI: Or licensees that are not joint
20 commission accredited.

21 MR. CAMPER: And/or hospitals that are not JC
22 accredited.

23 MR. HENKIN: I think you will not find any with
24 nuclear medicine departments who are not JCAHO accredited.

25 Those that are not JCAHO accredited tend to be

1 long-term psychiatric facilities --

2 MS. ALAZRAKI: That's right.

3 MR. HENKIN: -- things of that type that don't
4 provide these services on site.

5 I would be very surprised to see any NRC licensees
6 in that group of 21 percent or so that don't comply to
7 JCAHO.

8 They are usually a very special type of hospital,
9 drug rehabilitation or alcoholism, something like that that
10 fall outside the standard acute care hospital setting.

11 I strongly recommend that you not stir up this
12 hornet's nest because what we are trying to do is reassure
13 you that in fact everything you want to have done is already
14 being done and at times a good deal more than what you want
15 to have done is being done.

16 MR. BRINER: People don't understand how to
17 approach this problem.

18 MR. TELFORD: I understand, so that if the
19 Commission needs an enforceable regulation in this area that
20 it's highly relying on what the JCAH program. Okay.

21 MR. CAMPER: Do you have any thoughts on the
22 enforceability of JCAHO as it relates to NRC's enforcement?

23 MR. HENKIN: It's enforced differently, okay, than
24 you would enforce. They do use a citation system, but their
25 penalty system is different than yours.

1 The ultimate JCAHO penalty --

2 MR. BRINER: I think he means how can they enforce
3 it --

4 MR. CAMPER: Let us operate under the assumption
5 for a moment that we go through with the rule and that rule
6 contains language similar to what you're saying but some
7 clause that would say that this criteria can be met by a
8 hospital demonstrating that it has a JCAHO approved quality
9 assurance program, okay?

10 MR. HENKIN: Well, JCAHO accredited.

11 MR. CAMPER: Fine, accredited program. How do we,
12 how does the NRC then enforce?

13 MR. HENKIN: Well I would do it if I were you, I'd
14 do it by license condition.

15 MR. TELFORD: That's how you license, how you set
16 them up to give them the business license to operate, but
17 how do we --

18 MR. HENKIN: You've got to mail in a copy of your
19 JCAHO letter. That is easy enough to do.

20 MR. TELFORD: Okay, so you would let JCAH inspect
21 the hospital --

22 MR. HENKIN: Sure, of course. They're doing it
23 anyway.

24 MR. TELFORD: You'd put a copy of the JCAHO
25 inspection report.

1 MR. HENKIN: Well, they send a letter of
2 accreditation to the hospital. That is what you've got to,
3 if you want to do anything with it, which I still don't
4 think you ought to do, but if you want to do anything with
5 it, at the time you renew your license please enclose a copy
6 of your most recent JCAHO accreditation certificate.

7 It's actually a thing you put on a wall and it
8 tells you for how long this hospital is accredited, from
9 what date to what date.

10 MR. TELFORD: Okay.

11 MR. HENKIN: And they don't accredit now for
12 longer than three years.

13 MS. ALAZRAKI: Three years.

14 MR. HENKIN: Three years maximum accreditation, I
15 think, before they come back, which is about the maximum
16 inspection interval that you guys can run, if I remember
17 correctly, right?

18 MR. TELFORD: So if the hospital had some mistake
19 they made that we felt shouldn't have been made, then we
20 might could cite them for that against the JCAHO --

21 MR. HENKIN: You can always cite them for doing
22 something evil. I mean there is nothing that stops you.

23 If they have broken your regulations anyplace, you
24 can go ahead and cite them. That doesn't prevent you from
25 citing them.

1 MR. TELFORD: But we have to have a regulation
2 that we can cite them against.

3 MR. HENKIN: You have got loads of them right
4 You cite people for therapeutic misadministrations, right?

5 Haven't people been fined for therapeutic
6 misadministrations?

7 MR. WIEDEMAN: No, just for not reporting the
8 misadministration.

9 MR. HENKIN: I think that's reasonable but I don't
10 think you need to fine them for that or cite them for that
11 because they are going to be cited for that by JCAHO, which
12 must make its reports public, by the way.

13 MR. TELFORD: Okay. This leads us to the
14 diagnostic reporting requirements which is a backhanded way
15 of defining misadministration.

16 I mean look at how in 10 CFR 35.2 currently it
17 says if you make one of these six mistakes you have a
18 misadministration. If your diagnostic administration were
19 50 percent different from what was directed, you have a
20 misadministration.

21 Remember?

22 MR. HENKIN: I vaguely remember.

23 MR. TELFORD: So that is a way of defining what a
24 misadministration is, is by the finding of what should be
25 reported.

1 That is the way it's done.

2 MR. HENKIN: You have got that in the regs now,
3 right?

4 MR. TELFORD: Okay, would you like to look at the
5 proposed reporting requirements --

6 MR. HENKIN: Sure. Why not?

7 MR. TELFORD: -- for diagnostics because some
8 changes have been proposed.

9 That is in this handout, here, page 1442.
10 Everybody have this one?

11 MR. HENKIN: 35.33.

12 MR. TELFORD: 35.33. These are for what's here
13 called diagnostic events or misadministrations -- oh, I'm
14 sorry. I gave you the wrong page.

15 Let's go to 1447. That's the preamble that I
16 referred you to previously.

17 The section is marked 35.33.

18 Revised to read as follows: Under the paragraph
19 (a) these are events.

20 (1) is any diagnostic medical use not authorized
21 in the license. That's just something you shouldn't be
22 doing. Maybe you don't have the license to handle that kind
23 of material or something -- it's really outside your
24 license.

25 (2) would be any diagnostic medical use without a

1 prescription or referral.

2 Does that ever occur?

3 MR. HENKIN: I would hope not.

4 MS. ALAZRAKI: Not prescriptions as we've defined
5 it here.

6 MR. TELFORD: This is really a diagnostic case so
7 the diagnostic referral is probably the most operative.

8 MR. HENKIN: I can't conceive of a situation
9 except, well -- it would still be referrals.

10 MR. WIEDEMAN: I can envision a referring
11 physician would call you and say, Dr. Henkin, I have got a
12 possible pulmonary embolism, I'm sending her down right
13 away.

14 MR. HENKIN: I don't think that's covered in this.

15 MR. BRINER: Here again, your terminology is
16 confusing -- diagnostic misadministration and somewhere I
17 see creeping into it the wrong treatment is given.

18 MR. TELFORD: We are on (a)(2).

19 MR. HENKIN: A diagnostic medical use without a
20 prescription or a diagnostic referral. Again, you are
21 treading into the practice of medicine because diagnostic
22 referral encompasses what? What is a diagnostic referral?

23 MS. ALAZRAKI: Let me give you an example where it
24 is really the practice of medicine but it might not fit in
25 what you have said here. That is, say we do -- let's see,

1 a good one -- let's say we do a MIBG scan and we find an
2 abnormality which might be associated with a particular kind
3 of tumor and it is very hard to localize that abnormality
4 without injecting a renal agent to see where the kidneys are
5 and if this is really in the adrenals or where it is, so we
6 would go ahead as part of the examination. All we have been
7 asked to do is an MIBG scan to identify a tumor. We would
8 go ahead and inject the renal agent to localize. We do that
9 all the time.

10 We consider it part, a legitimate part of the MIBG
11 exam but we don't do it in every patient. We only do it
12 when we feel it is indicated but it would not be a separate
13 so-called referral or prescription for that renal injection.

14 MR. TELFORD: It's directly from the authorized
15 user.

16 MS. ALAZRAKI: That's correct. It's all medical
17 judgment.

18 MR. HENKIN: Why is it -- I don't know what this
19 issue of a diagnostic referral means in here.

20 MR. TELFORD: that is the patient that comes from
21 the outpatient.

22 MR. WIEDEMAN: I know of a case where they were
23 cited for this particular part -- any diagnostic medical use
24 without a prescription or a diagnostic referral.

25 This was a VA hospital. A technologist's sister's

1 been diagnosed with some kind of a bone disease and so she
2 had her sister come in in the middle of the night and the
3 technologist injected her sister and did the bone scan and
4 then she left the scans on the doctor's desk and normally in
5 a VA hospital you don't see too many female patients -- at
6 least this one -- and that was when the doctor said now wait
7 a minute, who is this woman. She said, well, that was my
8 sister. He says, well, who ordered this scan and found out
9 a physician did not order that particular scan.

10 MR. HENKIN: And why is NRC concerned about that?

11 MR. WIEDEMAN: Because it was a use --

12 MR. HENKIN: Why is NRC concerned about that
13 clinical scenario?

14 MR. WIEDEMAN: Because it met the definition of a
15 misadministration.

16 MR. HENKIN: Okay, should you be concerned about
17 that clinical scenario? Was the patient exposed to an
18 amount of radiation that was judged to be harmful?

19 MR. CAMPER: No, but by definition it was a
20 misadministration therefore we are concerned under the
21 current --

22 MR. HENKIN: We could open up this issue of
23 diagnostic misadministrations, which I don't think we want
24 to do. I think the wording here is very confusing.

25 MR. BRINER: Let's go down to (b).

1 MR. TELFORD: We will get to it. Let me alleviate
2 the confusion, Dr. Henkin. The prescription is what comes
3 from the authorized user.

4 MR. HENKIN: If you just ended it at prescription,
5 what would the problem be?

6 MR. TELFORD: The referral comes from the non-
7 nuclear --

8 MR. HENKIN: That is part of the practice of
9 medicine that you are not in. Let me say that if in fact
10 his situation would be covered because there was no
11 prescription -- if you ended it right here after the word
12 "prescription" what's the difference, because it's that
13 diagnostic referral that muddies this sentence up
14 considerably.

15 MS. ALAZRAKI: That's true.

16 MR. BRINER: I don't want to discuss this any
17 further.

18 MR. TELFORD: I don't quite understand how it
19 muddies it up.

20 MR. BRINER: Diagnostic misadministration was not
21 something we really wanted to discuss today.

22 MR. HENKIN: I think I agree with Bill and by the
23 way I would point out that your definitions of terms of
24 diagnostic referral means a written request dated and signed
25 by a physician before a diagnostic medical use.

1 You just told us that's not what it means at all
2 in the other section. You just said oral, verbal,
3 everything was fine.

4 Here you defined it differently.

5 MS. SURREL: The definition says a written
6 request.

7 MR. TELFORD: I just told you that. I told you
8 that ten minutes ago, that the referral was a written
9 directive signed by a non-nuclear physician. Prescription
10 is --

11 MR. HENKIN: That's what your people have told you
12 too, that that is all oral.

13 MR. TELFORD: Wait, wait, wait. We are operating
14 under the guise that your definition of prescription was
15 okay for the purpose of discussion, that we would recognize
16 your definition of prescription, that it's a written or oral
17 directive given by a nuclear physician. That's the
18 applicable case.

19 I told you that the reason that I knew about all
20 of the diagnostic patients being handled under oral
21 referrals was all of the folks in the pilot program, so we
22 are quite aware that even though we stated what we thought
23 was the ideal case is to have written directives, be it for
24 diagnostic cases or therapy cases, that is not the real
25 world.

1 That is not the way things are so I said granted
2 that we'll look at this example program --

3 MR. HENKIN: I am more confused now than when we
4 started.

5 MR. BRINER: While we're on this thing I wanted to
6 bring to your attention where you again make a terrible
7 mistake in your use of terminology.

8 We're talking about diagnostic medical uses,
9 right, under (b)(1). Any diagnostic medical use other than
10 the one stated in the prescription or the diagnostic
11 referral in the clinical procedures manual, incorrect
12 medical use would include treatment.

13 MR. TELFORD: Okay.

14 MR. BRINER: And I use the term "treatment" with
15 disdain because there again you imply there is a bad effect
16 that will occur to this patient if something like this
17 happens and nothing could be further from the truth.

18 That's not treatment.

19 MR. TELFORD: What is it?

20 MR. BRINER: Treatment infers a therapeutic
21 procedure of some sort.

22 MR. TELFORD: The sentence says incorrect medical
23 use. Now "medical use" --

24 MR. HENKIN: That is malpractice by definition.
25 You are not capable of judging malpractice. That is the

1 definition of malpractice.

2 MS. ALAZRAKI: Incorrect medical use.

3 MR. CAMPER: Were these points the trouble that
4 you're expressing with the definition addressed in your
5 comments?

6 MR. BRINER: I can't even remember. I don't even
7 remember anymore.

8 MR. HENKIN: We certainly did address the issues
9 of written prescriptions and written diagnostic referrals
10 but these things are 'way out of line in terms of how they
11 fit in the practice of medicine.

12 MR. TELFORD: Would you believe this is currently
13 covered under 35.2?

14 MR. HENKIN: These definitions are in 35.2?

15 MR. TELFORD: Well, the same things, diagnostic
16 misadministration is in 35.2.

17 MR. HENKIN: But we aren't real happy with some of
18 the -- we've never been happy with the diagnostic
19 misadministration. We've never been able to get anywhere
20 with it, that's all. We were not happy with that from Day
21 1.

22 MR. BRINER: That's right.

23 MR. TELFORD: Would you bear with me here just for
24 a minute on this sentence.

25 MR. BRINER: What sentence?

1 MR. TELFORD: Your sentence, incorrect medical
2 use. Medical use is a defined term.

3 MR. BRINER: Okay.

4 MR. TELFORD: So that means the administration of
5 byproduct material or the radiation therefrom, so we have
6 incorrect, some sort of incorrect medical use.

7 MR. BRINER: But in a sentence where in exceptions
8 you are dealing with diagnostic misadministrations,
9 treatment should not ever appear. Bottom line. Period.
10 End of comment.

11 MR. TELFORD: Okay, let's take out the word
12 "treatment" then for our discussion.

13 MR. BRINER: Why not take out diagnostic
14 misadministrations? That's what we advised you to do years
15 ago.

16 MR. HENKIN: That solves the problem

17 MR. TELFORD: Could we address these one at a
18 time? I am perfectly willing to entertain that.

19 We'll go back to the sentence: Incorrect medical
20 use.

21 MR. BRINER: We are not getting anywhere. We've
22 reached an impasse.

23 MR. TELFORD: Hang for on a minute. Hang on for a
24 minute.

25 I don't know, if the sentence said incorrect

1 medical use would include -- skip treatment --

2 MR. BRINER: No. I am not buying off on any part
3 of this section.

4 MR. TELFORD: I didn't ask you to buy off on it,
5 sir. I just asked you to consider the sentence in some way
6 to repair it.

7 You bought up an objection to the sentence. I was
8 trying to look for a solution.

9 MR. HENKIN: We don't want to repair it. We want
10 it all to go away because it is inappropriate.

11 It's an inappropriate -- I mean we have agreed to
12 play along on this therapeutic misadministration question
13 and to discuss this issue, all these issues revolving around
14 therapeutic misadministrations. Diagnostic
15 misadministrations are of no consequence to anyone,
16 therefore it isn't worth the time to discuss them.

17 MR. TELFORD: Okay. Let me rephrase -- let me put
18 the other question in.

19 How would you declare a threshold or structure a
20 reporting requirement for either a diagnostic case or an I-
21 131 case --

22 MR. HENKIN: Why don't you talk to the state of
23 Illinois. They have some very interesting draft regulations
24 for what it is that diagnostically would have to be reported
25 and I can't remember all of them offhand, but I think one of

1 them is that in a diagnostic situation you'd have to be in
2 error by 500 percent before you had to report anything to
3 anybody.

4 MR. TELFORD: This is a diagnostic case?

5 MR. HENKIN: Yes.

6 MR. TELFORD: Typically like technetium.

7 MR. HENKIN: Typically like anything -- they
8 regulate accelerator products as well, so you have to
9 remember that that includes their accelerator products as
10 well.

11 I don't remember the details of all of that but I
12 am sure you can get it from Kathy Allen at IDNS, a copy of
13 what IDNS has talked about.

14 MR. TELFORD: Okay.

15 MR. HENKIN: It is something the medical community
16 in Illinois has not found terribly objectionable but
17 apparently the agreement states folks have had a little
18 problem with -- but it is a much more reasonable situation
19 that says you have to make a flagrant error before you have
20 to report it to anybody.

21 MR. TELFORD: So something like the --

22 MS. ALAZRAKI: Something like a death from a
23 transfusion.

24 MR. TELFORD: -- the medical use as administered
25 is 500 percent different from --

1 MR. HENKIN: I don't remember all the details and
2 I don't really want to quote those details because I don't
3 remember them but I'm sure you can get it from the Illinois
4 Department of Nuclear Safety, a copy of what they have been
5 kicking around as a draft document.

6 MR. TELFORD: Do you feel there should be some
7 threshold in terms of a dose to the patient like X rem
8 effective dose equivalent, in addition to the 500 percent or
9 is that sufficient?

10 MS. ALAZRAKI: I know that the percent is --

11 MR. BRINER: 500 percent of what?

12 MS. ALAZRAKI: -- of the prescribed dose, the
13 indicated dose.

14 MR. HENKIN: I mean all they are trying to get at,
15 and I think the thing we would not object to, is the report
16 of a flagrant error. The stuff we have got now is nonsense
17 and has no meaning, okay, to anybody.

18 MR. TELFORD: Currently in 35.2 it says 50 percent
19 different for diagnostics and if you get the wrong patient,
20 et cetera.

21 MR. HENKIN: I don't want to discuss how to
22 rewrite the regulation.

23 MR. TELFORD: Could you define "flagrant" for me?

24 MR. HENKIN: I can define flagrant as a gross
25 error. That's all I'll say.

1 MR. BRINER: I would have great difficulty in
2 providing you any advice on diagnostic misadministration.

3 MR. TELFORD: Okay, let's go to therapy then.

4 MR. BRINER: We have just been talking about
5 therapy all day long.

6 MR. TELFORD: How about I-131? Would you like to
7 see criteria there for if the dose, the whole body dose or
8 thyroid dose exceeds certain specifications then it should
9 be reported?

10 MR. HENKIN: I think you guys are in the wrong
11 business, collecting this material, because first of all it
12 leads you to do inappropriate things like this quality
13 assurance rule, the draft quality assurance rule, because
14 you draw incorrect conclusions from the data you have
15 collected because you don't know how to analyze that data.

16 That is problem one.

17 Problem two is that I don't, I believe that these
18 are issues that are addressed within the medical community
19 and belong to the medical community to address.

20 They are our responsibility to address, not to
21 defend, to address the issue of how we train our people
22 appropriately and I mean the specialty boards and the
23 nuclear medicine technology certifying board certify people
24 to practice nuclear medicine in the various levels they
25 practice at.

1 It is the responsibility of those folks to see
2 that people are appropriately trained. It is the
3 responsibility of physicians to see that their practices are
4 run properly, okay, and I come back to the same set of
5 issues again.

6 I don't know why NRC thinks it has a role that no
7 other Federal agency has in the practice of medicine --
8 because FDA regulates pharmaceuticals does not give it a
9 role of the right to get into physician offices.

10 MR. TELFORD: If we would accept the JCAHC
11 accreditation, then that would be all right?

12 MR. HENKIN: No! I don't say for a minute that's
13 all right. You said that!

14 I think you have no business in this at all!

15 Your question to us earlier this afternoon is can
16 we discuss the JCAHO program and what it does.

17 The answer to that is yes. However, the
18 stipulation we placed on that is that was outside the
19 discussion of a quality assurance rule.

20 MR. CAMPER: So that translates into, you are
21 saying that requiring JCAHO certification -- accreditation,
22 excuse me -- accreditation would not be sufficient to
23 address our concern, would not be a satisfactory means to
24 address our concern --

25 MR. HENKIN: It is an inappropriate thing for you

1 to be involved in this at all. Therefore we certainly can't
2 endorse JCAHO or anything else as a standard for something
3 that is inappropriate in the first place.

4 MR. TELFORD: We were talking about reporting
5 requirements. Now what you are saying is don't do anything.

6 If we do nothing, then the current requirements
7 remain, that are currently in 35.2, which is a diagnostic
8 administration and it's 50 percent different from what's
9 prescribed and in radiopharmaceutical therapy a 10 percent
10 different.

11 MR. HENKIN: What you have got written out there
12 makes no sense right now. If you are going to use those
13 definitions to define a misadministration reporting system,
14 they are no good. They have got to be reworked.

15 They don't make any sense in terms of the practice
16 of medicine.

17 MS. ALAZRAKI: Our basic premise is that what we
18 started with earlier this morning is that your reason for
19 wanting to get into this is the misadministration problem.

20 We say the misadministration problem is really not
21 a non-problem because the occurrence of those
22 misadministrations as you have defined them approaches what
23 we consider human error, that no additional procedural
24 modification is going to be able to impact that, that also
25 in addition to the fact that it is not of any impact to try

1 to do anything about misadministration because it's a non-
2 problem that you are getting involved in practice of
3 medicine, which of course we are not prepared to accept as a
4 regulatory agency.

5 So we are stymied here I think.

6 MR. TELFORD: So is Dr. Henkin's point is that we
7 don't have the legal authority to do this and Dr. Alazraki's
8 point is that we shouldn't be trying to reduce or prevent
9 misadministrations beyond the current --

10 MS. ALAZRAKI: Diagnostic, right.

11 MR. BRINER: I think we're at the point where
12 nothing can be done to further reduce it. That is the
13 problem.

14 MR. CAMPER: Let me ask you this. Given that
15 there is currently a misadministration defined in Part 35,
16 and drawing your attention back to the April the 7th, 1988
17 meeting, at which it was expressed that the definition of
18 the term misadministration is unclear and the related
19 reporting requirements are confusing, is there anything that
20 we can do at this point in time constructively as we look
21 at and talk about the definitions that are now set forth in
22 the proposed rule?

23 We seem to have come to an impasse as it relates
24 to any additional constructive dialogue about those
25 definitions as now defined.

1 MR. BRINER: We have about diagnostic
2 misadministration. We're at a point where --

3 MR. HENKIN: I indicated to Mr. Telford on the
4 telephone when we talked about this meeting that we were not
5 prepared to discuss the issue of diagnostic
6 misadministration because there is just in our minds no
7 justification for any of it and -- do what you want with it
8 sort of situation that we are going to oppose it.

9 We are going to continue to oppose it. We believe
10 it is unjustified. We believe it has resulted in no benefit
11 to anyone.

12 MR. TELFORD: Larry's question is can we have a
13 constructive dialogue about that? If we do nothing than --
14 currently, 10 CFR has 50-percent difference.

15 MR. HENKIN: The only constructive dialogue --

16 MR. TELFORD: Should it be left there?

17 MR. HENKIN: -- is to consider removing the
18 reporting requirements completely. If that's what you want
19 to talk about, we'll be glad to talk about it. Revising
20 diagnostic misadministration reporting in any other way is
21 not something we're going to talk about.

22 MR. TELFORD: Okay. What would be my basis for
23 removing the reporting requirement?

24 MR. HENKIN: That you have demonstrated they're
25 not a danger in the public health and safety. Your own data

1 has demonstrated that. You've got the data that shows that
2 the diagnostic misadministrations in this country do not
3 represent a danger to public health and safety.

4 MR. TELFORD: Oh, okay. Just the diagnostic ones,
5 not the ones that result in the therapy range, like the I-
6 131 misadministrations.

7 MR. HENKIN: I could --

8 MR. TELFORD: Like the Arizona case, for instance.
9 The lady lost her thyroid.

10 MR. HENKIN: Are we talking about diagnostics or
11 therapeutics? We keep getting mixed up.

12 MR. BRINER: Undoubtedly, here on Rockville Pike
13 today, someone nearly got killed by an automobile. Has that
14 been sufficient reason for Montgomery County to ban or to
15 indicate that only so many cars per unit of time can go by
16 here on Rockville Pike? How far do you think they'd get
17 with that? About as far as you're going to get with a
18 diagnostic misadministration conversation today.

19 MR. TELFORD: How about therapy misadministrations
20 then, not diagnostic?

21 MR. BRINER: What are we talking about? We've
22 been talking about therapy most of the day. What are we
23 rehashing it for?

24 MR. CAMPER: We're talking strictly about therapy
25 here.

1 MR. HENKIN: I thought that's where we were,
2 Iodine-131 misadministrations.

3 MR. CAMPER: We're talking about diagnostic
4 nuclear medicine and segregating that into brachytherapy and
5 teletherapy.

6 MR. BRINER: Yes. But most of the discussion
7 today centered around the therapeutic use of radionuclides
8 in other sealed sources.

9 It's getting close to the time where it's going to
10 take us 2 hours to get back into town, and I'm not about to
11 have that happen.

12 MR. TELFORD: Is there a time that you would like
13 to --

14 MR. BRINER: Half an hour.

15 MR. TELFORD: -- adjourn the meeting?

16 MR. BRINER: Yes. A half an hour is okay.

17 MR. HENKIN: I don't think we're getting anywhere
18 on this topic.

19 MR. BRINER: Absolutely not.

20 MR. HENKIN: The only statement we can make on
21 diagnostic misadministrations is that they won't present
22 more hazard to the public health and safety. Since that is
23 the case, there should be no reporting requirement for them.
24 Anything other than that doesn't fit reality.

25 MR. BRINER: That is something we've said

1 repetitively for years. So, it's not coming as any
2 surprise.

3 MR. CAMPER: Okay. Can I make one different
4 point, then?

5 We've spent a fair amount of time talking about
6 the utilization of JCAHO accreditation as an alternative to
7 our proposed QA Rule 35.35 for diagnostic nuclear medicine.

8 MR. HENKIN: Well, I don't think that's exactly
9 what we discussed. What we discussed is whether JCAHO
10 accreditation accomplishes the same goals that your proposed
11 rule would accomplish.

12 MR. CAMPER: Let me phrase it differently.

13 If we were to consider using JCH accreditation
14 standards to satisfy the concerns that we have expressed in
15 the eight objectives in 35.35, as proposed, would it be --
16 would ACNP or SNM consider preparing an analysis or a brief
17 description categorizing each of these eight objectives and
18 then identifying the standard and the part of the
19 accreditation manual that applies?

20 MR. HENKIN: Want my gut reaction?

21 My gut reaction is no, because we're opposed to
22 the entire thing in concept. That's my gut reaction. Okay?
23 And that is that we've spent the entire afternoon
24 demonstrating that JCAHO does what you wanted done.
25 Therefore, there is no need for you to do anything more.

1 But to consider going ahead now means that you're going to
2 put into place something that's already there, and it makes
3 no sense at all. And I, for one, am not adverse to going
4 back to the Commissioners and asking them why we're going to
5 do this.

6 Why is this going to happen? Because we had a
7 very productive discussion, Dr. Holmes, Dr. Marcus, and I,
8 in February, with the Commissioners. I think we got the
9 furthest along with them we've ever gotten. They were
10 receptive. They were willing to discuss. And I think they
11 understood the issues better than I ever hoped for them to
12 understand the issues. But now I think it may be
13 appropriate to go back and say, in place of that, maybe it
14 hasn't trickled down from their level, that they understood
15 that -- where we were and the allocation of resources and
16 things of that sort.

17 I don't see that that's occurring here, that
18 you're talking about another system layered on top of
19 something else, even if you refer to JCAHO, and all of your
20 goals are currently being met.

21 MR. TELFORD: Well, we're looking for an
22 enforceable regulation, and we need to --

23 MR. HENKIN: Do you want to fine somebody?

24 MR. TELFORD: Pardon me?

25 MR. HENKIN: Do you want to fine somebody? Is

1 that the goal of this?

2 MR. TELFORD: Well, it may be true that the JCAHO
3 requirements apply to the vast majority of hospitals and
4 facilities, but a few kind of slip through.

5 MR. HENKIN: Could you prepare an analysis on how
6 many NRC licensees are not JCAHO accredited?

7 MS. ALAZRAKI: That would be worthwhile. Fine out
8 how many there are, and then we could respond to that.

9 MR. HENKIN: How many NRC licensees, as
10 institutions, are not JCAHO accredited?

11 MR. TELFORD: Well, we could consider doing that.
12 There would be a few that would not be JCAHO accredited, and
13 we would need some sort of enforceable regulation to bring
14 those folks up to the minimum -- some minimum sufficient
15 standards.

16 MR. BRINER: Well, let's see who they are and what
17 you're talking about.

18 MR. TELFORD: And then we would have to achieve
19 some sort of equality between those folks and the ones that
20 are JCAHO accredited. But to date -- the ACNP and SNM sent
21 in a petition, or a resolution -- excuse me -- to have -- to
22 propose that the quality assurance rulemaking be withdrawn.

23 MR. HENKIN: Correct.

24 MR. BRINER: It still stands.

25 MR. TELFORD: The response you received in a memo

1 dated, I think, February of '89, which said that that
2 resolution would be considered among all the other public
3 comments during the period in which the other public
4 comments or all the public comments would be evaluated.

5 The Commission has given us no change in
6 direction.

7 MR. HENKIN: Then I think we should go back to the
8 Commission.

9 MR. TELFORD: The staff is operating under what's
10 called a staff requirements memorandum, dated December 21st
11 of '89, in which we are to conduct -- have the public-
12 comment period, conduct a pilot program, and prepare a final
13 rule to be delivered to the Commission in March of '91. So,
14 that's the directive that we're under.

15 MR. HENKIN: You understand that we are operating
16 under directives, as well, and our directives are to see
17 that this program is withdrawn, no matter what it takes.

18 MR. TELFORD: You're entitled to that opinion.

19 MR. HENKIN: It is not an opinion. We are
20 responsible to our organizations. We have been given a
21 directive, a direct directive to see that this program is
22 withdrawn, not to see that it's modified, not to see
23 anything else, to see that it is withdrawn.

24 MR. TELFORD: In spite of all that, I think the
25 discussion today has been helpful to me and certainly

1 educational about the JCAH requirements and the example
2 program and how these meet or, at least, almost meet or, in
3 fact, meet the end objectives that we have in the proposed
4 regulation. I thought today's discussion was very helpful.

5 We seem to have come to an impasse over reporting
6 requirements. You have given us the suggestion that we talk
7 to the State of Illinois; we will do that. We know Kathy,
8 and she was at the workshop that we had. We will make that
9 inquiry to find out what they are proposing for diagnostic
10 reporting requirements. We would like to seek your advice
11 and advice of others as to how those ought to be changed,
12 because if we do nothing, then the current requirements
13 stand.

14 MR. BRINER: For the moment.

15 MR. TELFORD: The medical community made the
16 suggestion at the Commission meeting in '88 to change the
17 definition of "misadministration." So, we're trying.

18 MR. HENKIN: If I remember, they also made the
19 suggestion that the whole thing be dropped, too.

20 MR. TELFORD: Well, the directive that we got was
21 to look into rewriting the definition of
22 "misadministration."

23 MS. ALAZRAKI: You can rewrite it to exclude
24 diagnostic.

25 MR. TELFORD: That would make you happy. Right?

1 Okay.

2 MS. ALAZRAKI: That would make sense.

3 The other which perhaps we have discussed that
4 seems reasonable to me is for NRC to look into how many and
5 if there are licensees who are not under some QA program,
6 nothing to do with NRC.

7 MR. TELFORD: Licensees not covered under JCAH?

8 MS. ALAZRAKI: If there are any.

9 MR. HENKIN: Or other practice audit programs.

10 There are two other practice audit programs out there.

11 MR. TELFORD: Which are?

12 MR. HENKIN: ACNP and American College of
13 Radiology.

14 MR. TELFORD: Okay.

15 MS. ALAZRAKI: Consider redefining
16 "misadministration" to be just therapeutic; eliminate
17 diagnostic.

18 MR. TELFORD: Okay.

19 Would anybody like to have any closing remarks?

20 MR. HENKIN: I think we've made them all day long.

21 MS. ALAZRAKI: We've made closing remarks.

22 MR. TELFORD: Does anybody here want to make any
23 closing remarks?

24 [No response.]

25 MR. TELFORD: Okay.

1 Well, thank you all for coming. I truly found it
2 helpful.

3 Let the meeting stand adjourned.

4 [Whereupon, at 3:57 p.m., the meeting was
5 concluded.]

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

REPORTER'S CERTIFICATE

This is to certify that the attached proceedings before the United States Nuclear Regulatory Commission

in the matter of:

NAME OF PROCEEDING: Workshop on Quality Assurance in
the Medical Use of Byproduct

DOCKET NUMBER: Material

PLACE OF PROCEEDING: Rockville, Maryland

were held as herein appears, and that this is the original transcript thereof for the file of the United States Nuclear Regulatory Commission taken by me and thereafter reduced to typewriting by me or under the direction of the court reporting company, and that the transcript is a true and accurate record of the foregoing proceedings.

W. Riley G. Adams

Official Reporter
Ann Riley & Associates, Ltd.