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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

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ADVISORY COMMITTEE ON MEDICAL USES OF ISOTOPES

(ACMUI)

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THURSDAY

SEPTEMBER 25, 1997

OPEN SESSION

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ROCKVILLE, MARYLAND

The Advisory Committee met at the Nuclear
Regulatory Commission, Two White Flint North, Room T2B3, 11565
Rockville Pike, at 8:00 a.m., Judith Anne Stitt, Chairman,
presiding.

COMMITTEE MEMBERS:

JUDITH ANNE STITT, M.D.	CHAIRMAN
DANIEL F. FLYNN, M.D.	MEMBER
JOHN GRAHAM	MEMBER
ANDREW KANG, M.D.	MEMBER
WILLIAM B. NELP, M.D.	MEMBER
DENNIS P. SWANSON, M.S., B.C.N.P.	MEMBER
LOUIS K. WAGNER, M.D.	MEMBER
THERESA WALKUP, C.M.D.	MEMBER
JEFFREY F. WILLIAMSON, PhD.	MEMBER

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1 ACMUI INVITED GUESTS:

2 NAOMI ALAZRAKI, M.D.

3 MANUEL CERQUEIRA, M.D.

4 RUTH McBURNEY

5 CATHY RIBAUDO

6

7 ALSO PRESENT:

8 CHIP CAMERON

9 DONALD A. COOL

10 DIANE FLACK

11 CATHY HANEY

12 DONNA-BETH HOWE, M.D.

13 SAM JONES

14 MARJORIE ROTHSCHILD

15 BARRY SIEGEL, M.D.

16 JOHN SZABO

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P-R-O-C-E-E-D-I-N-G-S

(8:39 a.m.)

MEMBER HANEY: Good morning, I'd like to start the meeting, if possible, and we'll go on the record at this point.

Good morning, ladies and gentlemen. I am pleased to welcome you to Rockville, Maryland to the NRC Headquarters for this public meeting of our Advisory Committee on the Medical Uses of Isotopes. My name is Cathy Haney. I'm the Section Leader for the Medical and Academic Section of the Industrial Medical and Commercial Branch, Division of Industrial and Nuclear Medicine Safety. I will serve as the designated federal official for the Advisory Committee for this meeting. Typically, Larry Camper is the designated federal official, but due to a death in his family he will not be able to be here for the meeting.

This meeting is an announced meeting of the Advisory Committee. It's being held in accordance with the rules and regulations of the Federal Advisory Committee Act and the Nuclear Regulatory Commission. The meeting was announced in the Federal Register on September 5, 1997. That notice stated that the meeting would begin at 8:30 a.m. with a closed session from 8 a.m. to 8:30 for an ethics briefing.

The function of the Advisory Committee is to advise the NRC staff on issues and questions that arise on the

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1 medical use of byproduct material. The Committee provides
2 counsel to the staff, but does not determine or direct the
3 actual decisions of the staff or the Commission.

4 The NRC solicits the opinions of the Council and
5 the Council values the opinions of this Committee very much.
6 The staff requests that the Committee, whenever possible,
7 reach a consensus on the various issues that will be discussed
8 today or in any of the ACMUI meetings, but also values stated
9 minority or dissenting opinions.

10 I ask that if you could, please clearly
11 articulate those dissenting opinions as we discuss the
12 specific agenda items.

13 As part of the preparation for the meeting, I
14 have reviewed the agenda for the members and employment
15 interests. I have not identified any conflicts based upon the
16 very general nature of the discussion that we are going to
17 have today. Therefore, I see no need for any individual
18 member of the Committee to recuse themselves from this
19 discussion. However, if during the course of our business you
20 determine that you have some conflict, please state that for
21 the record and recuse yourself from that particular aspect of
22 the discussion.

23 I would like to take this opportunity for the
24 record to introduce the Committee Members that are with us
25 today. We'll be starting down at my far left: Dr. Jeffrey

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1 Williamson who is a medical physicist representative
2 specializing in radiation therapy; to his right is Ms. Theresa
3 Wallcup who is a Certified Medical Dosimetrist; Dr. Lou
4 Wagner, representing Medical Physics, specializing in Nuclear
5 Medicine; Dr. dennis Swanson, Radiopharmacist, representing
6 the radiopharmaceutical concerns; Ms. Ruth McBurney, a State
7 Regulator representing the various state regulator
8 perspectives; Ms. McBurney is sitting here today as an invited
9 guest since that slot has not been filled yet. To her right
10 is Dr. Will Nelp, Nuclear Medicine physician representing
11 research and Dr. Judith Stitt, who is Chairman of the
12 Committee.

13 Now going on to my right, Dr. Andrew Kang,
14 representing the Food and Drug Administration; Mr. John
15 Graham, representing Health Care Management perspectives; Dr.
16 Daniel Flynn who is a Radiation Therapist; Dr. Manual
17 Cerqueira, Cardiologist, representing the Cardiology
18 perspective; Dr. Naomi Alazraki, Nuclear Medicine Physician,
19 representing Nuclear Medicine perspective; and Ms. Cathy
20 Ribaudo representing Radiation Safety concerns from a
21 Radiation Safety Office of a large institution.

22 Also tomorrow we will have joining us a Mr. James
23 Anderson who is a Chapter Chairman of Us Too. He's a cancer
24 survivor support group representing patient rights who is not
25 here today. He should be here tomorrow after noon.

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1 With that introduction I'll go into two
2 administrative items for the members of the public that are
3 not familiar with the building. To my rear, you'll find a
4 hallway. At the end of the hallway to the left and right are
5 the rest rooms. On the first floor of this building, there's
6 a cafeteria where you can get coffee and they also serve lunch
7 in those locations.

8 One more introduction, at this point we do have a
9 new staff person that is handling the Advisory Committee for
10 me and that's Pat Vacherlon. You've seen here working around
11 here this morning. She'll be sitting at that back table in
12 case you need anything of an administrative nature with
13 regards to you coming into this meeting.

14 Dr. Stitt?

15 CHAIRMAN STITT: Yes, could you tell me who is
16 voting and who is not voting? Naomi is not --

17 MEMBER HANEY: Right, Cathy is not. Naomi is
18 not. Manuel is not and Ruth McBurney.

19 CHAIRMAN STITT: So they can participate in all
20 discussions?

21 MEMBER HANEY: Correct, right. As far as, we do
22 have nominations for those positions. After this meeting is
23 finished, that will be our next priority to fill those slots.
24 We have a very formal process that we must go through in order

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1 to get the different nominees reviewed and approved. So we
2 hope to have those individuals seated by the next meeting.

3 CHAIRMAN STITT: All right, you all know Judy's
4 rules. You don't speak unless you're spoken to. And
5 everybody gets a chance. I try to scan the crowd and anybody
6 has their hand up -- Don Cool?

7 MR. COOL: Okay, now I echo. I don't like
8 echoing so I will talk softly. And I did not bring any
9 sticks. I am pleased to be here today with you and to welcome
10 you to this particular meeting of the Committee.

11 Over the last several meetings the last year or
12 two, each time I have come up here I have talked about the
13 fact that we are embarking on a process, first it was we are
14 going to embark upon a process fairly soon, then, we believe
15 we are embarking on a process. Last time we were here we have
16 pretty much embarked on the process where the Commission had
17 told us to move forward with the revision on Part 35. At that
18 point we were in the process of providing the Commission with
19 detailed schedules and plans and we did so. In fact, two
20 Commission papers went forward to the Commission. I believe
21 you have seen copies of those which provided the outline and
22 the staff process that was proposed. The Commission came back
23 to us and made several things very clear. Probably, one of
24 the most important for all of us is that in no uncertain terms

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1 thou shalt have a final rule in June of 1999, now less than
2 two years away.

3 They approved a process which continued to have
4 some measures of public involvement and input to the design
5 and activities and sent us off to move forward and to do good.
6 I won't add any other modifiers to that particular thing. So
7 that's basically where we are now in this process.

8 When the Commission approved the plans for the
9 revision of Part 35, we immediately undertook some steps to
10 try and move the process forward as rapidly as we could.
11 Pulled together a number of folks within NRC, both folks
12 within my staff here and Headquarters and folks who are in our
13 regional office, in particular Region 1, to help us draft some
14 initial possibilities of rule language in the various modality
15 areas. We've talked a number of times about looking to see if
16 this rule could be moved yet a little bit farther down the
17 line of a modality-based approach as one possible methodology
18 for dealing with some of the issues associated with making it
19 a rule which could be more performance-based, more risk
20 informed and something which could be more easily modified to
21 deal with emerging modalities issues techniques as they came
22 along.

23 That writing group prepared some initial draft
24 materials. We tried to assemble the things that had come out
25 of that, some of the issues and ended up focusing on I think

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1 it's five or six significant issues which we have now
2 developed a set of alternatives to. Those are the documents
3 which you have in front of you and formed the key pieces of
4 the majority of the agenda that you have in front of you
5 today. With this meeting today, those documents are being
6 made publicly available. They will form the baseline for
7 three additional meetings to come up over the next six, seven
8 weeks or so, that being the meeting of the Organization of the
9 Agreement States. That session will be on Saturday, October
10 17th, 18th. Two weeks after that there will be a facilitated
11 public meeting which will be held in Philadelphia of two and a
12 half days' duration. Approximately two weeks after that in
13 the second week of November, there will be a second
14 facilitated public meeting which will be held in Chicago,
15 Illinois.

16 Chip Cameron who a number of you may know who is
17 our special counsel for public liaison and one of the world's
18 smoothest individuals when it comes to dealing with people, is
19 going to be doing the convening and the facilitating for those
20 two meetings. He's also been tapped to do all of the
21 facilitating associated with the Organization of Agreement
22 States meeting and so we're going to be keeping him rather
23 busy.

24 The alternatives, of course, don't deal with
25 every single aspect of the rule. There are a number of other

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1 things which go on in the rule and the staff is continuing to
2 look at those issues and we'll be starting to try and draft
3 some approaches to deal with those as we move forward in the
4 development process.

5 At this point, what we expect in schedule is
6 roughly the following, that following the public meetings, so
7 once we get past about the middle of November, then the staff
8 will be getting back together and we'll be developing a
9 proposed rule text. That will be done on the basis of the
10 input that we have received in this meeting, from you folks,
11 from the states and the Agreement State meeting and from the
12 public, the community at large in the two facilitative
13 meetings, at least in those areas dealing with those
14 particular alternatives. That draft will be available for
15 scrutiny as it's in the development process. There will not
16 be a formal published version which is out for a little mini-
17 comment period or something like that, but rather an almost
18 continually developmental cycle where pieces that are
19 available can be scrutinized over a period of time.

20 We are going to be attempting to draft in
21 parallel with putting that rule together a series of the
22 guidance documents that would go along with that draft. As
23 you are acutely and probably chronically aware, what you say
24 about how to implement the rule and what it takes in terms of
25 license application, inspections, even enforcement sorts of

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1 areas become critical in the overall perception of the rule
2 and how it plays out. So our plan is to attempt to provide to
3 the Commission the set of guidance documents which would go
4 along with this particular rule. Now I'm not sure exactly
5 what the form and substance, if you started to pile them that
6 will take because a number of the things just as in the rule
7 will be very, very similar.

8 For those of you who are not familiar with the
9 kind of model and process that we have been using in other
10 areas within my program, the Materials Regulation area, we
11 have been moving in a direction of trying to have a
12 consolidated guidance document. It's the NUREG 1556 series.
13 Ruth is smiling. Some of her folks have helped us with these,
14 where in one place we attempt to have all of the information
15 necessary to apply for and be a licensee in a particular
16 arena. I've sort of nicknamed it the Ragu series. You
17 remember the ad, all that good stuff that's in there? So it's
18 all condensed in one place. That is the idea that we're
19 trying to pursue with these, that there would be a series of
20 documents when they were brought to full maturity which would
21 have all of the things necessary for dealing with a particular
22 area within the part 35, just as there is one that deals with
23 radiography which has just been published for comment:
24 reportable gauges, fixed gauges, well logging, and on and on.
25 You could go through the various overall processes.

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1 There will be a total draft for at least one of
2 those and then likely the more program specific aspects which
3 you would substitute in to deal with the other particular
4 modalities when we go to the Commission which needs to be in
5 the May time frame of 1998. Presuming the Commission moves
6 relatively rapidly, we would expect then the proposed rule.
7 This is the official proposed rule, the formal public comment
8 period as required under the Administrative Procedures Act
9 during the summer of next year. The exact timing on that,
10 obviously dependent upon exactly when the Commission completes
11 its deliberations, give the staff approval to publish the
12 rule.

13 We are in hopes to hold at least a couple of
14 public meetings during that comment period, again to
15 facilitate the comment and discussion process associated with
16 that rule and then go back through the development process
17 once more so that by the May time frame beginning of June of
18 1999 we can take the final rule to the Commission.

19 We would expect that this Committee would need to
20 meet again next spring in order to have an opportunity to look
21 at the proposed rule and the guidance document as part of the
22 review process on its way to the Commission. And then from
23 there, I'm not exactly sure how we would sequence in part of
24 the advice you might be able to give us. It's exactly what

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1 other points within the process you believe the Committee
2 could be particularly useful in that development cycle.

3 We're pleased that we get to have you be the
4 first ones to look at the options. The options are not up
5 necessarily for large wholesale editions to the process.
6 Hopefully, you'll find that there's a relatively broad range
7 of views in here. Rather now we need to move on and do what
8 the next stage is which is to say all right here is this range
9 of options. There are certainly some pros and cons. You may
10 agree or disagree with the pros and cons. That's good. What
11 we need to do now, what I would like for the Committee to try
12 and do with these is to look at and focus on what are your
13 particular recommendations within that range of options for a
14 way in which to proceed? Why is it that this particular
15 option or some combination of the options, that's certainly a
16 possibility, is the one that you prefer and why, as well? Why
17 are the ones which you do not prefer not preferred? What are
18 your particular rationales to support the nonselection as well
19 as the selection because all of that information becomes
20 critical to us as we develop the statement of considerations
21 and try to put together the proposal.

22 The staff will have the meeting minutes of this
23 meeting available as a document for the public meetings. I do
24 not expect that we will here today or tomorrow specifically
25 agree or disagree as a staff on a certain direction to take.

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1 We need to see what all of the inputs are through the public
2 meeting process and otherwise. Your input is one of the
3 valuable key inputs to us in determining the way that we will
4 proceed when we start to draft a single rule come the middle
5 of November type of time frame. But I would ask that you give
6 us as clear and specific advice associated with a direction to
7 proceed and a rationale for how to proceed in each one of
8 these options areas.

9 I will remind you, I'm almost done, I will remind
10 you that the Commission gave us a fair amount of very explicit
11 direction in giving us the approval direction to proceed
12 forward with the rule. If that staff requirements memorandum
13 from March is not available, we probably need to make sure
14 that -- it is available, good.

15 They ask us to look at a number of things. You
16 will find that the areas where there are alternatives and
17 issues for you to discuss match that very closely. There are
18 a couple which were not included in that staff requirements
19 memorandum list which we also believe are very critical. They
20 have come up time and again. You have needed to deal with
21 them time and again. That, in particular, is the area of
22 training and experience which will not addressed in a staff
23 requirements memorandum, has been an issue that you as a group
24 have wrestled with a few times in the past and which has
25 already been very clear in some of the interactions that we've

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1 had at some of the professional society meetings, has a wide
2 range of viewpoints within the community. We have met with a
3 number of professional societies already. We have a number of
4 other presentations and discussions scheduled and in fact, I
5 fly tomorrow afternoon to talk to the American Association of
6 Clinical Endocrinologists. We will be down to ASTRO in
7 Orlando and a number of the other meetings throughout this
8 fall. Again, as additional opportunities for people to
9 provide us with their inputs and thoughts in this particular
10 process.

11 With that, I will entertain any questions. You
12 have a very busy schedule. You've only got two days to do
13 this. In fact, you have in addition to that some things which
14 I think you're going to take on very early this morning which
15 is the fate and role of this Committee in terms of its
16 continued role and interaction. That's one of the things that
17 the Commission also asked the Committee and it's the first
18 time I think the Commission had ever addressed a staff
19 requirement memorandum to the Chairman of the ACMUI to provide
20 some advise as to how you would continue to play in the whole
21 medical community and arena, both as we proceed through this
22 rule making where there's, I certainly see a very valuable and
23 key role, and once that rule is developed, exactly where your
24 role is in the on-going process of the next generation.

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1 With that, Dr. Stitt, I'd be glad to try and
2 answer some questions.

3 CHAIRMAN STITT: Maybe we were a little harsh in
4 our meeting with the Commissioners in May. They're wanting us
5 to reevaluate ourselves.

6 Actually, I had two specific questions for you,
7 Don. One is in view of what we're currently doing, what the
8 staff is doing, will we -- is there a need for us to meet with
9 the Commissioners in the spring, as we commonly do? I think
10 we're still licking our wounds from the last session. I think
11 my guess is right now unless something changes, probably not.

12 MR. COOL: I'm going to say the classic answer, a
13 little too early to tell. I think in terms of the need to
14 support the process, it's going to be critical for this
15 Committee to meet relatively early in the spring in order to
16 be able to look at the draft and provide us advice.
17 Certainly, at that point an opportunity would not be a
18 reasonable time for you to be meeting with the Commission.
19 However, I could easily imagine that the Commission would want
20 to hear from the Committee, perhaps during the deliberation
21 when the paper has gone forward to see if you have any
22 specific views.

23 So it may be that they will wish to meet with you
24 in the May-June time frame, when the paper has gone forward.
25 I expect that the staff will certainly have a briefing to

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1 brief the Commission. They may wish for you or several of the
2 members to be available and have a part of that presentation
3 and discussion, just as a guess.

4 CHAIRMAN STITT: Another specific question, in
5 reading through this, there's a tremendous amount of work
6 that's been done. Things are lined up with a variety of
7 options. Each is discussed. We commonly try to reach
8 consensus and then we have something that goes in the minutes.
9 We have dissenting comments that go in the minutes. Are you
10 looking for that from us or more of a discussion with some
11 sort of waiting towards one option or another or -- I know my
12 Committee can get just bogged down in mindless detail,
13 depending on which side of the room I'm looking at.

14 What's going to be most helpful? Obviously, I'll
15 have to see how this group is working today, but I mean we
16 really -- remember last time when we were talking about those
17 words? I keep looking at you, don't I, Mr. Graham.

18 Do you want us to come up with a consensus vote
19 on each of these options? I mean not each of the options, but
20 each topic?

21 MR. COOL: To the extent that you can give us a
22 consensus view with regard to a particular option or some
23 combination of the options that you regard as the best
24 approach that you would recommend for the staff to consider,
25 that would be very helpful to us.

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1 What we have proposed to do in our public
2 meetings and I will offer to you to consider whether or not it
3 might assist you in going through these, what we have proposed
4 to do for the public meetings is to start out at a relatively
5 high level with the options and the pros and cons conceptually
6 with those and as those groups perhaps tended towards an
7 option or to then to have the meeting focus more and more upon
8 the particular details within that options and where the rub
9 points are within the process, as a way of trying to not slog
10 through the endless detail on every single one of the options.

11 We have played that game internally in the staff
12 marching through in rather detailed lockstep with each of the
13 options and each of the pros and cons and the language of the
14 options and let me assure you that if you try to do that, you
15 will still be here on Sunday.

16 CHAIRMAN STITT: Everybody got that? All right,
17 comments for Mr. Cool?

18 MEMBER NELP: Haven't you also, besides the
19 alternative, you have made a suggested change according to
20 what your considerations at this point, haven't you? Like you
21 say, here's a suggested rule.

22 MR. COOL: We have not a single suggestion. What
23 you do have is some possible text that would match up with
24 each of those alternatives, but you will find suggestions that
25 could, that would go along with each of the alternatives for a

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1 particular issue. The staff does not have a single suggested
2 text at this point, very deliberately and carefully.

3 MEMBER HANEY: Let me just add to it, when we
4 developed the suggested text, even the group recognizes that
5 we would do further refinements in that text if that option
6 were chosen because some of the text is still very
7 prescriptive and there would be ways in the fine details that
8 that could be made a little bit more performance oriented, but
9 the goal was just to give you an idea of what the rule text
10 would look like if this was the preferred option.

11 MEMBER NELP: Is that your preference as staff of
12 people? Is that what you think would be good to serve your
13 purpose or did you just put down something that would be -- we
14 could read? I presume that's your consensus of what you'd
15 like to see happen and change?

16 MEMBER HANEY: No, not really because we
17 developed rule text for each alternative and we modified it.
18 It was more just something putting out there as a starting
19 point of someone to think about.

20 MEMBER NELP: Thank you.

21 MR. COOL: We have placed the rock on the table.
22 We have not attempted to facet and polish it by any stretch of
23 the imagination. So there is a lot of refinement that would
24 need to be done. If this group moves relatively quickly
25 towards a consensus on a particular option, and therefore

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1 could provide us within your time frame some suggestions and
2 specifics on that wording that supports it, that would be
3 very, very useful. I know that there were --

4 CHAIRMAN STITT: Dan, you had a comment?

5 MEMBER FLYNN: Yes, I'm going one step ahead of
6 this though also because the time is going to be short by the
7 time it gets to next spring. Once you go through these
8 alternatives for Radiation Safety Committee, for Quality
9 Management Rule, Patient Notification, Training and
10 Experience, these are the difficult -- and a lot of debate
11 will occur. But when you get into actually writing the first
12 draft of the staff draft of 535, I strongly urge you, if
13 possible, if you could approach it like in a modular form.
14 You may be doing this already, brachytherapy, teletherapy,
15 nuclear medicine and while you're doing these modular sections
16 like brachytherapy, be working on a draft for the Reg. Guide
17 at the same time. The reason why is because when you look
18 at the regulation and then you look at the Reg. Guide
19 sometimes when you try to write the details in a Reg. Guide as
20 to how you meet the regulation, you see that there's a
21 confusion. You only notice that when you're trying to look at
22 the Reg. Guide. I mean I can give you an example like in for
23 brachytherapy, after implanting the sources, usually make a
24 survey and make a record of each survey. Well, do you keep
25 the record or is the record going to be audible? Are you

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1 going to post it on the patient's door? Do you leave it in
2 the isotope lab after you're all done. I mean when you start
3 to write a draft Reg. Guide as to how you might meet the
4 regulation, you may come up with some confusing areas or some
5 misinterpretation of how someone might misinterpret the
6 regulation when they come up with their own radiation safety
7 program, if they choose not to use the Reg. Guide, but write
8 their own safety program of policies and procedures in order
9 to meet the regulation. In other words, if you can work it
10 both because then when you have this final rule in June of
11 1999, you're going to have to come up with Reg. Guides real
12 fast, at least if there's another -- if another year goes by,
13 by the time you have the Reg. Guides written, it makes the
14 implementation of the new part 35 very difficult in July of
15 1999.

16 It would be nice if the Reg. Guides are completed
17 in June of 1999 also. That's my point.

18 MR. COOL: I agree with you completely. The
19 staff plans to have the Reg. Guides with the final rule and in
20 fact, the drafts with the proposed rule for 1998 and 1999 such
21 that when we publish the rule, the guidance documents that go
22 along with it are there with it simultaneously. We do not
23 want to have the scenario you just suggested where it's a year
24 or more later before anyone figures out how they actually have
25 to get there from here.

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1 CHAIRMAN STITT: Dennis?

2 MEMBER SWANSON: Will the guidance documents
3 include in addition to Reg. Guides inspection guidance and
4 will we have a chance to see that?

5 MR. COOL: I believe that we will try to do that.
6 The inspection guidance might be a little bit farther behind,
7 although in my ideal world they would all be together.

8 We just have to see physically how much time
9 there is. I'll be very frank with you, the rule is first.
10 The licensing guidance that goes along with it is second and
11 the inspection guidance that comes along with it is third.
12 And ideally, 1, 2 and 3 all end up together.

13 CHAIRMAN STITT: All right, we're pushing 10
14 minutes behind, so I'm going to go ahead and ask Cathy to make
15 a presentation. Thank you, Don.

16 MEMBER HANEY: I believe in the last meeting we
17 had been to we had been given status on what we had done the
18 previous recommendations that we had seen in July. So that's
19 what I'm here to do now.

20 From the last meeting there were three
21 recommendations. The first dealt with a recommended revision
22 to the medical policy statement. You had proposed certain
23 words to us. Those exact words are in your book if you look
24 under the tab, but I'm not going to go through those right
25 now.

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1 What they did with that recommendation was to
2 incorporate it as one of the alternatives for revision to the
3 medical policy statement. The work considered that item and
4 it became an alternative 2 in the package. We have a special
5 section on just revisions to the medical --

6 (Microphone was turned on.)

7 There's a specific section of today's meeting
8 dealing with the medical policy section, so I'll just end that
9 discussion right now and let Diane pick up that when she
10 starts addressing that particular item.

11 The second recommendation was that the -- we
12 would continue the current regulatory approach for part 33.
13 If you remember from the last meeting, advanced notice of
14 proposed rulemaking was issued. We received public comments
15 on the ANPR and some questions that were posed in it. We went
16 through with the Committee what the public comments were.
17 Since that time period staff has looked at part 33 and is in
18 the process of preparing a Commission paper which would, it's
19 basically our mechanism for getting information back to the
20 Commission. One of the things that's being considered in that
21 paper is to request that we not go forward with the rulemaking
22 on part 33, that we address some of the concerns that got us
23 to the point of the ANPR. We discuss that in guidance space.

24 In that Commission paper, we would forward the
25 ACMUI recommendation so the Commission wouldn't know where we

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1 stood on this. At the next meeting, I'll go ahead and commit
2 to giving you a further update on where the 33 packages right,
3 but that one will be moving along.

4 The last one had to deal with making
5 modifications to the quality management inspection procedures.
6 Our focus obviously the last couple of months has been with
7 part 35 and getting these alternatives kicked off and the
8 rulemaking kicked off. No action has been done at this point
9 on making modifications to the inspection procedures so
10 therefore I'll give you an update next time that we are here
11 on that.

12 Does anyone have any specific questions? I'll be
13 happy to go into more depth if you'd like?

14 CHAIRMAN STITT: Dennis?

15 MEMBER SWANSON: One thing that's missing on the
16 agenda, you might address it now was we had expressed some
17 concerns about the Reg. Guide for the Patient Release Rule.
18 In fact, we were asked to give comment on that and I'd like to
19 know what the status of those comments are.

20 MEMBER HANEY: Could you be more specific? The
21 nature of the comments?

22 MEMBER SWANSON: There were actually when the
23 Reg. Guide came out on the release rule there I think that
24 they tended to be very prescriptive in nature and we pointed
25 out that there were many comments in the Reg. Guide that

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1 basically rendered the rule much more prescriptive than the
2 rule was originally intended.

3 MEMBER HANEY: Those were comments on the draft
4 guide?

5 MEMBER SWANSON: Right.

6 MEMBER HANEY: Okay, the final guide was issued.
7 I believe it was in the March time frame. There were
8 significant revisions, changes to it from the draft guide that
9 went out. It did allow the licensees the option of using what
10 was in the Reg. Guide or coming up with their own procedures
11 and that was written into the Reg. Guide that they had the
12 flexibility, where I think in the draft version that was not
13 as stated as explicitly as it is now in the final version. I
14 haven't addressed your concern completely, I don't think.

15 MEMBER SWANSON: No. I did express several
16 concerns and I've never seen any response from the NRC
17 regarding any of those concerns that we were asked to provide.

18 MEMBER HANEY: It was the meeting before last,
19 wasn't it?

20 MEMBER SWANSON: No, I think it was the meeting
21 before the meeting with the Commissioner.

22 CHAIRMAN STITT: Naomi, were you part of that?

23 DR. ALAZRAKI: No, I think that was -- I think
24 what Dennis is talking about, I was not at that discussion.

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1 MEMBER HANEY: Can I give you an update tomorrow
2 morning? Will you give me until tomorrow to do a little bit
3 of quick research?

4 MEMBER SWANSON: Sure.

5 CHAIRMAN STITT: There's a member of the public
6 in the back.

7 MEMBER HANEY: I was going to introduce Barry
8 when we got to the part 35, but let me go ahead and tell you,
9 Barry is working as a consultant to the working group so he is
10 here today as equivalent to a staff member, adding us with,
11 providing us with guidance. So I give your introduction now.

12 MR. SIEGEL: This may not sound like a staff
13 comment. I think a specific issue that relates to this
14 regulatory guide, relates to the fact that the regulatory
15 guide that was reviewed by the Committee had a two compartment
16 model to evaluate I-131 elimination and retention and the Reg.
17 Guide that was finally published included an ersatz three
18 compartment model in which it was assumed that some 20 percent
19 of the radioactive iodine was essentially not eliminated
20 during the first eight hours or 80 percent was not eliminated
21 during the first eight hours and there's really no biological
22 basis. In fact, for that kind of an assumption it just
23 doesn't make sense and it was unclear how that alteration
24 among a few others crept into the Reg. Guide after it had seen
25 public comment.

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1 CHAIRMAN STITT: So that is what the Committee is
2 asking for a response to, is that correct? Where did that
3 come from, since we'd never seen it.

4 MEMBER SWANSON: I think some of the other areas
5 that crept in the final Reg. Guide that we didn't see were
6 specific tie downs as to occupancy factors or contact factors,
7 etcetera that you had to include in your calculations and as I
8 said, it all of a sudden became very prescriptive in how we
9 address patient release.

10 MEMBER HANEY: All right, well, let me see what
11 information I can get and maybe if time permits tomorrow
12 morning we can take a couple of minutes and I'll have a little
13 bit more for you by then.

14 MEMBER SWANSON: The AMCUI was specifically asked
15 to provide comments on that and it's a variety.

16 MEMBER HANEY: All right.

17 CHAIRMAN STITT: Okay, you want to go on?

18 MEMBER HANEY: Yes, let me do that. I'm going to
19 step now into the evaluation of the Committee membership and
20 the Committee. These documents are in the SRMs that I'm going
21 to reference are in your package. There's a tab there. I
22 don't think I'm going to be doing it in the order that it is
23 behind the tab. I'm doing the easier ones first.

24 I'll give you the opportunity to find it. If
25 we're referencing SECY 97-143, in that package, we went -- in

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1 the Commission paper, we asked that certain members of ACMUI
2 be reappointed. The Commission came back and said yes, go
3 ahead, we agree with you. You can reappoint those
4 individuals, but then they added a few extra items and those
5 are the items that I just wanted to bring to your attention
6 now.

7 One is that they asked on future reappointments
8 that we add into the Commission paper a brief performance
9 evaluation of that individual. They also asked that we allow
10 ample lead time for the Commission to make reappointment
11 decisions. In other words, they didn't want us turning it in
12 and asking them we need to know week whether this person can
13 be reappointed or not.

14 They ask that we consider the appointment of a
15 radiation safety officer with health physics experience at the
16 next earliest opportunity. The next earliest opportunity is
17 when we go out to solicit nominations for future positions
18 that would be opening because we need to do that by a Federal
19 Register notice. But they also asked that in the interim
20 period that for the purpose of discussions on part 35 that we
21 ask someone with that type of experience to attend the
22 meeting. Because of this particular item, we contacted the
23 Health Physics Society, asked if they could have someone
24 attend the meeting this time and that's why we have an added
25 member here today as an invited guest.

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1 We did it rather short notice for the Health
2 Physics Society. Unless I hear an objection what we will do
3 is probably send a letter to the Health Physics Society asking
4 them if they can appoint someone that would be just act as the
5 invited guest to this Committee until we have a formal, until
6 we formally evaluate whether a radiation safety officer should
7 be seated on the Committee.

8 The next thing in that SRM was that they asked
9 after part 35 is completed that we evaluate the composition of
10 the ACMUI and what they're looking for there is to determine
11 if changes are needed to meet the needs of the Agency as we
12 implement the revised rule and the medical use program. That
13 particular action for us, we have got due dates associated
14 with everything. It's not due until the Year 2000. So that
15 is something that is further on down the line, but I just
16 wanted to bring it to your attention so that as we go through
17 this process the next two years, that it's something that you
18 are considering.

19 Any questions on that particular item?

20 (Pause.)

21 The next one I'd like to discuss is 96028.
22 Again, it has somewhat the same thought in it, looking at the
23 evaluation of the ACMUI and their particular role. In this
24 document we were instructed to reexamine the role of AMCUI
25 following the determination of where we would go with the

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1 materials medical program. This is what was the DSI-7 where
2 we got to at the last meeting.

3 We will need to go back to the Commission, again
4 via a Commission paper with statements regarding the role and
5 at this point, the document is due back to the Commission in
6 December of this year. The due date was 180 days after we
7 received their decision on the DSI-7.

8 One of -- what I'd like to put on the table right
9 now is does the ACMUI have any preliminary thoughts on what
10 you would like to see going into this paper as well as is the
11 timing correct, given the previous SRM that really almost and
12 the next SRM that I'll discuss that really have put you as a
13 very key organization in reviewing along how we're doing part
14 35.

15 So the question is is the timing right for this?
16 Would you like us to make any statements regarding the timing
17 and then as well as what would you like in the paper? Wide
18 open.

19 CHAIRMAN STITT: I think you've got us
20 overwhelmed here. Does the Committee have any comments. I
21 think our minds are sort of geared up to starting with all
22 these options.

23 MEMBER HANEY: We just wanted to throw you off a
24 little bit.

25 CHAIRMAN STITT: I see.

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1 MEMBER HANEY: And if -- I know this is kind of
2 catching you off guard with this. It's something we can
3 handle in the next couple of months if you'd rather not
4 discuss it right now, that's okay. I'm looking, actually
5 probably my key thing, do you see the timing as correct to be
6 examining the role of the ACMUI.

7 CHAIRMAN STITT: The timing -- you're supposed to
8 send something back in 180 days you said?

9 MEMBER HANEY: Right, which the 180 days is
10 December of this year.

11 CHAIRMAN STITT: Naomi?

12 DR. ALAZRAKI: I guess the question relates to
13 the fact that until the regs are completed you really don't
14 know what the involvement of NRC is going to be in any of
15 these programs and therefore what's the role of ACMUI, how can
16 we say what the role is until we know what the regs are.

17 All my initial reaction to that is as long as
18 there is any role whatsoever of the Nuclear Regulatory
19 Commission in regulating in any way radiation safety and
20 extensions thereof in medical centers, there's an important
21 role for ACMUI. So ACMUI should be involved in anything that
22 NRC is involved in or thinking about that relates to functions
23 in handling radioactive materials in medical centers.

24 CHAIRMAN STITT: Other comments? That's a nice
25 summary statement. I think it's hard to become very detailed

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1 when we've got these other things on our agenda in front of
2 us. December is a short time before anything more expanded.

3 Dennis, did you?

4 MEMBER SWANSON: Well, I'll comment. The role of
5 this Committee is already pretty well defined under our
6 charter. So I'm not sure why we're going to spend a lot of
7 time on this.

8 CHAIRMAN STITT: And Jeffrey, why did I think you
9 were probably going to have your hand up?

10 MR. WILLIAMSON: It's not clear to me what the
11 issues are from NRC's perspective or the Commission's
12 perspective, so it's hard to respond.

13 MEMBER HANEY: During -- my understanding is that
14 during the strategic process that we went through a couple of
15 years ago, one of the items that we were looking at was all the
16 Advisory Committees across the board and the next SRM that
17 we're going to discuss and again you may want to defer some of
18 the discussion on that also. Really, ACMUI got thrown in with
19 all the other Advisory Committees and these are things that we
20 are doing across the board and therefore this discussion.

21 CHAIRMAN STITT: I'd like to ask that Naomi make
22 a motion out of her statement because we've been asked to make
23 consensus statements in the form of motions where we can and I
24 believe we ought to act on this.

25 Would you do that, Naomi?

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1 DR. ALAZRAKI: Well, I would move that it is the
2 Committee's view that ACMUI has an important role to play in
3 any activities of the Nuclear Regulatory Commission which
4 relate to regulatory of radiation safety and extensions
5 thereof in the medical community.

6 CHAIRMAN STITT: Naomi, I'm asking John Graham to
7 make that motion since the feeling is --

8 DR. ALAZRAKI: That's right.

9 CHAIRMAN STITT: I'm not sure that you can make a
10 motion.

11 Did you listen well enough, John?

12 MR. GRAHAM: Could you repeat that?

13 CHAIRMAN STITT: Yes. Can we do that? Can we
14 second that? Does anybody know Robert's -- is Robert here?

15 MEMBER NEMP: I will second.

16 CHAIRMAN STITT: Okay, so we have a motion and
17 second. Discussion?

18 MEMBER SWANSON: Point of discussion. I'm not
19 sure that's what the Commission is asking us for. They're
20 asking each Committee to produce a set of criteria under which
21 it performs the Committee will be evaluating in the future. I
22 don't think the questioning is contained in the existence of
23 this Committee.

24 CHAIRMAN STITT: The point is this is just a very
25 general --

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1 MEMBER HANEY: Well, the SRM does go on to -- and
2 Dennis brought this up, it does go on to say that we need to
3 produce a set of criteria for the Committee and then the
4 Committee should periodically review itself against this. Now
5 that particular action is not due until March of next year.
6 So that's further off. And that might be something that we
7 could help you by at least bringing you a rock and letting the
8 Committee work from there.

9 CHAIRMAN STITT: This is only a portion of a 15-
10 minute discussion so we can't develop a program here. I think
11 if we can do anything at all it's to make a statement and if
12 we can't do that, then we'll move on.

13 John, did you -- we're still in discussion phase
14 of a motion in front of us.

15 MR. GRAHAM: I think this is in follow-up to
16 Dennis' earlier comment, possibly if you could discuss this
17 with Dr. Cool to whom this Committee reports and provides
18 advice.

19 In affirming the useful role of the Advisory
20 Committee in the medical use of isotopes, as long as the NRC
21 has any active involvement in the review of the medical use of
22 isotopes or patient safety or radiation programs anywhere in
23 health care, the frustration that continues to get discussed
24 and the clarification that would assist this Committee in its
25 future actions is the feedback mechanism, feedback from the

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1 staff and/or feedback from the Commissioners. It is only when
2 this Committee has spent hours and solicited outside medical
3 opinions and come up with a consensus which clearly from my
4 perspective as a lay member of this Committee represents a
5 balance of medical opinion and then the final regulations as
6 published ignore that recommendation, having gone through an
7 extraordinary process of due diligence, that we begin to
8 question who is it that we're advising and why.

9 So it's this feedback that in this entire process
10 of the next two years, we're going to go through what Dr. Cool
11 described as as continuous development and revision process,
12 if there's no feedback mechanism, we won't have a clue as to
13 whether or not we're recommending an option which is in favor,
14 out of favor and/or the why of it. I don't think this
15 Committee has ever objected to the fact that staff walked back
16 in and said we don't agree with you, but that feedback is the
17 essential missing element.

18 MS. ROTHSCHILD: Cathy, it's Marjorie Rothschild
19 from the Office of General Counsel. I just wanted to note in
20 regard to the comment about the Committee's charter that that
21 has to be renewed every two years and we believe it was last
22 renewed in April 1996, so I think the date of April 1998 is
23 relevant that this may not necessarily be set in stone because
24 that charter has to be renewed periodically. I just wanted to
25 note that.

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1 MEMBER HANEY: Thank you.

2 CHAIRMAN STITT: Other comments from the
3 Committee?

4 Ready to vote? Everybody know what the motion
5 is?

6 All those in favor, raise your hands? Let's see.

7 Okay, those opposed? All right.

8 Next.

9 MEMBER HANEY: The next SRM that I would like to
10 discuss is the one that came about that was directed to the
11 ACMUI after your briefing with the Commission and this gets us
12 a little bit closer to the part 35 issues that we have.
13 Again, the SRM is in your briefing book, if you'd like to look
14 at it. What I would like to do at this point is to bring to
15 discussion some of the questions that were posed in that SRM.
16 There were four sets of questions and in each two of the four
17 are more of a general nature. The last two that have to do
18 with events and the thresholds for evaluation, I'd like to
19 hold those until tomorrow's discussion on patient notification
20 and the threshold for then. I think it would be more
21 appropriate there.

22 However, I'd like to maybe spend a couple of
23 minutes talking about the first two questions there. The
24 first one dealt with the industry standards and again, we've
25 touched on these at previous meetings, but just if we could

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1 maybe run through some of these questions and just hear your
2 views again. In the case of -- and you have a copy of this in
3 the handouts that were placed on your desk in front of you
4 this morning of these vu-graphs. They're also in the SRM that
5 if you would like that.

6 I'll read through the three questions and then
7 you can address them as you'd like. The three questions that
8 were under number 1. First is how should NRC determine which
9 industry standards, including voluntary ones are adequate to
10 meet the NRC's regulatory responsibility for patients, worker
11 and public safety? To what extent should NRC allow the
12 licensee flexibility in interpreting or selecting an industry
13 standard? And how should the concept of quality improvement
14 be incorporated into reliance on the industry standards and
15 accreditation type of approach to licensing and inspection?

16 CHAIRMAN STITT: You want to open that up?

17 MEMBER HANEY: Yes, that's what I'd like to do at
18 this time.

19 CHAIRMAN STITT: I'll just remind you folks that
20 we've spent a long time -- I actually think maybe we're making
21 some progress. I could swear that some of the things that we
22 offered up and spent a lot of time putting together to offer
23 to the Commissioners are starting to come back to us.

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1 We have reviewed each of these in some details.

2 Are there comments anybody would like to make about industry
3 standards to start off with?

4 We could do this for an entire day.

5 MEMBER HANEY: Well, that's what -- yes.

6 CHAIRMAN STITT: That's what bothers me about --

7 MEMBER HANEY: I have that question I'd like to
8 spend the morning session on and then the other one -- let me
9 just go through the second one real quickly and then you can
10 decide how you want to spend your time. I think we have until
11 10 o'clock on this, this section?

12 CHAIRMAN STITT: That's right.

13 MEMBER HANEY: The other question I'd like to get
14 into this one is what are the necessary transition steps the
15 NRC should take in order to implement a more positive
16 enforcement program that, in fact, encourages or rewards good
17 performance while addressing the outliers?

18 The other one is what metric should the NRC use
19 to decide whether the approach is working? One aspect of this
20 question that's particularly important and I'll touch on that
21 in the session after the break is that the part 35 working
22 group added into its charter one of the items of reviewing the
23 enforcement policy associated with part 35. So your comments
24 on this one will be useful to the Commission, but also very

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1 useful to the working group in meeting that particular,
2 addressing that time of its charter.

3 So those are the two key areas of that SRM that
4 I'd like to address, I guess now in the next 25 minutes. So
5 at this point I'll go sit down and leave it up to the group to
6 discuss it.

7 CHAIRMAN STITT: All right, do you want questions
8 3 and 4, or sections 3 and 4 to be left alone for now?

9 MEMBER HANEY: Well, 3 and 4 in looking at it are
10 very tied into tomorrow's presentation.

11 CHAIRMAN STITT: Right.

12 MEMBER HANEY: Rather than get into a fragmented
13 presentation, I think I'll leave those to tomorrow.

14 CHAIRMAN STITT: Okay, I think that helps to
15 focus us. Can we have a little light whoever is in charge of
16 the lights? We're losing some members here. It's not even
17 late morning.

18 All right, so our task until 10 o'clock is to
19 look at the sheets of paper that discuss or that have
20 questions about standards, how to interpret standards, how to
21 measure and issues regarding enforcement.

22 So let's just start down this end of the table.
23 Dennis?

24 MEMBER SWANSON: Cathy, maybe you can answer
25 this. With regard to Question 1, "How should the NRC

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1 determine which industry standards, including voluntary ones,
2 are adequate to meet the NRC's regulatory responsibility?" are
3 there barriers to the NRC actually working with professional
4 groups in the mutual development of their standards?

5 MEMBER HANEY: Not that I know of. Marjorie is
6 with our office of General Counsel.

7 Are there any barriers to NRC working with
8 professional societies to develop standards and then we would,
9 in fact, endorse -- put them into our rules space, our
10 reference and guidance space.

11 MS. ROTHSCHILD: The only thing that I can think
12 of offhand is possibly the Federal Advisory Committee Act.
13 That probably would be applicable. It wouldn't necessarily
14 mean it couldn't be done, but if it were done and the Federal
15 Advisory Committee Act was applicable, then it would have to
16 be done in conformance with that statute.

17 MEMBER HANEY: To do it in conformance with that
18 statute, basically just a public forum?

19 MS. ROTHSCHILD: Well, it's a little more
20 detailed than that. I think we have regulations in 10 CFR
21 that deal with Federal Advisory Committee Act and those are
22 more detailed. That would probably -- being public might be
23 one of the criteria, but there's more than that.

24 CHAIRMAN STITT: Dennis, did you have any further
25 suggestions on how that might work?

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1 MEMBER SWANSON: Well, I think to include the NRC
2 as in the active discussions and formulation of the standards
3 of the professional groups is actually a way to address your
4 issue 1. That gives the NRC assurance that things they think
5 are important are addressed and that was the purpose of the
6 question. I think, in particular, as you get to things like
7 training and experience requirements where you're going to
8 want to recognize the standards of professional organizations,
9 it's going to be particularly important that the NRC is
10 involved in the development of those standards as it relates
11 to the radiation safety of occupational workers and patients.
12 And again, I think by the NRC being actively being part of
13 that process, it will give you the assurance that your issues
14 are covered.

15 CHAIRMAN STITT: So rather than being an act and
16 react, you're saying can we kind of discuss this together.

17 Several Members here are on these different
18 scientific panels. Can I just ask for a response to that?

19 MS. ROTHSCHILD: Dr. Stitt, could I just one
20 thing before you continue. On the previous question about
21 working with professional societies, two additional points.
22 One is that if the Committee or group is subject to Federal
23 Advisory Committee Act, one of the main things that they would
24 need would be a charter. If you have -- and also approval by
25 OMB. The other thing is that if you -- if there were a group

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1 and it recommended that certain standards would be relied
2 upon, NRC couldn't just adopt those. That would basically be
3 subject to whatever the requirements on rulemaking most
4 likely.

5 Thank you.

6 CHAIRMAN STITT: Go ahead.

7 MEMBER FLYNN: See, there also could be a problem
8 if you dealt with one professional society to the exclusion or
9 gave one professional society some special standing and other
10 professional societies an observatory role or had some members
11 of the general public given special standing and other members
12 of the general public either excluded or not given the same
13 standing. That would be the problem. But the way that I
14 would see it is that if you look at the regulated community,
15 for example, let's say in radiation oncology. If you're
16 looking at professional organizations and societies, you can,
17 for example, in some way determine which organizations'
18 membership comprises the majority of the regulated community
19 on that issue. So in radiation oncology, there may be three
20 or four major societies. Maybe there's one more specifically
21 for brachytherapy, American Brachytherapy Society. So that
22 society has the vast majority, 95 plus percent of those that
23 do brachytherapy. But so does ASTRO and a subject ACR, which
24 has a much broader membership as does American College of
25 Radiation Oncology, so that I think if the majority of the

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1 regulated community are members of that society, that limits
2 the number of societies right there, that if over 50 percent
3 of the regulated community is a member of that industry, if
4 you will, that society, then that limits the number of
5 societies. Then otherwise, you could have a real laundry list
6 of organizations that would be hard to sort out.

7 CHAIRMAN STITT: Much of the membership is
8 overlapping and it's a very small laundry list.

9 Jeff and then Lou.

10 MR. WILLIAMSON: Well, I think you know the first
11 question, how should NRC determine which industry standards
12 including voluntary ones are adequate or at least potentially
13 adequate. Certainly, it would be possible to ask, for
14 example, this Committee, which societies to our knowledge are
15 the most prominent and relevant ones for a given rule making
16 activity and I think just through some process of soliciting
17 input from the regulated community, I think you could, with a
18 relatively small amount of effort focused on research, collect
19 a finite number of documents that would make, be relevant to a
20 given activity such as the revision of part 35.

21 I think there's lots of issues involved in how
22 might these documents be included in, to use Larry Camper's
23 phrase, quote unquote regulatory space. One could make lots
24 of statements. One would be I should think that one would not
25 want a regulation that conflicted with what appears to be

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1 consensus statements of the community, what's important for
2 maintaining, for example, patient safety. I think you would
3 get an awful lot of information and background if you were to
4 review some of these documents, especially concerning NRC's
5 efforts to regulate safety of patients and quality of
6 treatment rendered to patients. One of the central problems
7 we have with the current regulatory system is there are a lot
8 of conflicts between some of the more prescriptive guidance
9 documents and regulations that exist. For example, for remote
10 afterloading brachytherapy, there are very serious conflicts
11 between some of those documents and the industry standards
12 that most institutions attempt to follow.

13 CHAIRMAN STITT: Lou Wagner.

14 DR. WAGNER: I think there's an implicit problem,
15 in my opinion, in just in the way the question is worded. The
16 biggest difficulty that I see is moving what a professional
17 organization might write as a standard recommendation, a
18 policy, whatever, into the regulatory process and the
19 enforcement.

20 Much of what the professional communities do are
21 recommendations to individuals, but no one is bound by them so
22 there's flexibility. When these policies move in the process
23 into a regulatory community, it becomes law. You've got to do
24 it. Now the flexibility is gone. Much of the recommendations
25 that have been made are the policies that have been set up.

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1 And therein lies a lot of the conflict with regard to the
2 writing of regulation on the basis of standards. There's no
3 transition there to look at the regulation and now say okay,
4 if this enforces the regulation, it means everybody has got to
5 do it and how is this going to hamper everybody? Is it really
6 going to apply across the board? Is this really important to
7 do for everybody? What kind of flexibility should be built
8 into it? I think therein lies much of the problem with the
9 regulatory process, is we look at the standards. We adopt
10 that standard and then everybody has got to do it. Well,
11 before they become the regulatory process and a regulation, we
12 really have to investigate whether or not that standard put
13 out by that society should apply to absolutely everyone or
14 what flexibility should be built in.

15 So I see the problem not so much as the
16 standards, I see it as the process of moving those standards
17 from that to the regulation and the enforcement of that
18 regulation, once it is made a rigid rule.

19 CHAIRMAN STITT: Excellent point and that's the
20 second statement on this first page. I was involved in the
21 AAPM Task Force 56 which was what, high dose rate? I don't
22 even know the title.

23 MR. WILLIAMSON: Brachytherapy physics code of
24 practice.

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1 CHAIRMAN STITT: Right, not being a physicist, it
2 was a pleasure. I'm going to actually have my name in the
3 Journal of Medical Physics, I've socked on to these guys who
4 really know what they're doing. But I was there as the
5 clinician and it was very impression to me that we would write
6 an initial draft and then send it out to the physics community
7 and I do mean community. All sorts of institutions, different
8 sizes, different geographic areas and we would have these
9 long, long, long conference calls about this very thick
10 document and what was the standard for me couldn't even be
11 approached, couldn't come close in, I don't know, somewhere,
12 Texas, just to pick on your state. And it was very impressive
13 to me that my standard was not somebody else's standard so
14 then you try to take up something that's been written down.
15 So we therefore made modifications in 56, but the hazard is
16 then putting that into a regulation and saying this is the
17 black and white, this is what you'll follow and then all of a
18 sudden, Clinton, Iowa, does not do the same thing that
19 Madison, Wisconsin does and therefore, they're in trouble. So
20 the flexibility issue in the second point is very difficult.

21 I'd like to ask for more comments, particularly
22 regarding that. Starting down this row, Naomi?

23 DR. ALAZRAKI: One of the things that societies,
24 professional societies do when they issue whatever policy
25 statements they're going to issue which we might want to look

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1 at, is that sometimes they're pretty parochial, but when
2 multiple societies buy in to the same policy or guideline or
3 whatever it is, then I think it has a lot more significance
4 and in terms of what NRC might feel about it because it means
5 that multiple groups and each of these societies, there are
6 differences in their compositions and in their interests. For
7 example, if the American Society of Nuclear Cardiology issued
8 some guideline and the Society of Nuclear Medicine and the
9 American College of Radiology bought into that, that would be
10 a lot more meaningful and have a lot more weight behind it
11 than just something isolated that the American Society of
12 Nuclear Cardiology might have approved. So I think that might
13 be a factor in terms of how we would evaluate anything.

14 CHAIRMAN STITT: Anybody else down this line
15 while I'm looking this way?

16 I think our goal between now and 10 is to just
17 get some comments into the record so those who can read, will
18 read them.

19 Theresa and then Will?

20 MS. WALLCUP: I'm just wondering if it would be
21 prudent instead of specifically defining which industry
22 standards, that that would be left up to the facility that
23 they feel best and then because the second part of the medical
24 policy statement says "the NRC will regulate the radiation
25 safety of patients where justified by the rest of patients and

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1 by voluntary standards or compliance where these standards are
2 inadequate." They don't specifically, they're not specific in
3 that statement either and if you can back it up by your
4 quality improvement program, to me, that would be more
5 flexible.

6 CHAIRMAN STITT: Will?

7 MEMBER NEMP: My comment is I think anything of
8 this nature would go into guidelines and not into regulations.
9 I would presume it would refer you to how to implement the
10 rule using a guideline which would be a voluntary standard and
11 I think this discussion is fairly pretty mature because we
12 really can't answer then until we see what the rule changes
13 are going to be. I think we can get very sidetracked at this
14 point trying to go down this pathway before we hit the rules
15 and see what changes are going to be actually solidified, if
16 any. So this will come out when we make the rule.

17 CHAIRMAN STITT: Three comments down the row and
18 then I'd like to -- we've got 10 minutes to talk about the
19 second page, which is enforcement.

20 Jeffrey, you're going to be the last one to
21 comment. You, in particular, had brought up accreditation
22 type of approach when we talked with the Commission, so I'd
23 like you to make a comment on that.

24 It's start with Ruth, then Dennis.

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1 MS. McBURNEY: Someone involved in the rulemaking
2 process, myself, I know that it is very difficult to when you
3 go from a voluntary standard such as the NCRPs or ACR
4 guidelines, that a lot of time they should and try to fit that
5 into a regulatory mold where you say "shall."

6 It's much better to address what is your outcome
7 that you're looking for, a performance end point and simply
8 make the rule itself address that, and like Lou said or maybe
9 you mentioned that what applies in a large, major institution
10 could meet all those voluntary standards and have a gold
11 standard, whereas a very small facility with limited resources
12 could not meet that, but what we need to put into regulation
13 is the minimum standard and also the end point, what the
14 performance outcome could be.

15 CHAIRMAN STITT: Dennis?

16 MEMBER SWANSON: I just wanted to comment on Dr.
17 Nelp's statement. In fact, the regulatory statements will
18 refer to standards because they do refer to the certification
19 processes and certification examinations are based upon the
20 standards of practice, so in fact, it does appear in
21 regulatory language with reference to the standards.

22 CHAIRMAN STITT: Jeffrey.

23 MR. WILLIAMSON: I'm glad you invited me to
24 comment on the issue of enforcement and accreditation. I
25 really think that this is another very critical aspect to

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1 determining how society professional standards might fit into
2 regulatory space. I think if you take examples, look at some
3 of the AAPM standards which are very technical in nature and
4 address either the accuracy of treatment delivery, largely,
5 they're in many ways far more prescriptive in some ways than
6 any regulation perhaps, you would dream up, but built into
7 these documents is our statements, the need to exercise
8 clinical judgement and flexibility and tailoring a program to
9 the specific institution.

10 CHAIRMAN STITT: Jeff, I want to jump in -- I
11 have a comment that's complementary. You're referring to
12 those standards that are very detailed. A nice companion
13 piece to those is American College of Radiology, low dose
14 rate, high dose rate, brachytherapy standards, that really
15 come, address the same issues except purely from the clinical
16 viewpoint. So if the NRC is to take these documents, look at
17 them in parallel, see how they overlap, they could address the
18 first statement of number 1.

19 MR. WILLIAMSON: I think the problem is is if you
20 have a regulatory model, enforcement model that says there are
21 specific laws you must do all of these specific things and
22 every incidence of violating one of these specific rules will
23 be punished no matter what the overall quality of the
24 institution is, then you've got a problem trying to
25 incorporate any industry standard into a living clinical

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1 practice. If, on the other hand, you try to look at it
2 somewhat from the perspective of clinical judgment how we as
3 the regulated community would see it, we see it as road maps,
4 as broad plans for helping to build a program that has overall
5 good quality. We don't fire or dismiss our employees, if they
6 make single errors. We attempt to correct things and we
7 basically look at overall quality. That's the main aim and
8 that is a far more important indicator to us is trying to run
9 a successful clinical practice than avoiding 100 percent of
10 the time all infractions of our quality assurance rules.

11 So I think if you adopted an enforcement model
12 that was more of accreditation type where the regulatory end
13 point would be some measure of overall program quality, you
14 have a good practice, okay, good, you're licensed for a while
15 to continue practicing your subspecialties until the next
16 inspection. You don't pass, you have a bad program, there are
17 central elements of minimal quality assurance programs that
18 are missing or dysfunctional. There aren't qualified staff,
19 etcetera, whatever the reasons are. Rather than basing it on
20 specific infractions, whoops, you failed to calibrate your
21 cobalt source within 30 days and did it at 31 days. That's not
22 a measure that's not relevant to the overall quality of the
23 program. So I think if you could sort of turn it around and
24 make your standards for good program performance, be more
25 compatible with those that are existent in the community,

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1 there would be a lot less dissonance than conflict and I think
2 you'd be overall a more positive force in trying to keep the,
3 get the outliers closer to the mean in terms of good versus
4 bad programs.

5 CHAIRMAN STITT: Nicely put.

6 DR. KANG: In regard to the standard, at FDA what
7 we are doing, I guess I'm not speaking for the entire FDA, but
8 in the device section-wise, we do not really want to develop
9 our own standards, just exactly the reason what Mr. Wagner
10 said. We do not want to mold the standard to make the
11 manufacturers abide. So we are trying to recognize the
12 voluntary standard. There are several international standards
13 as well as United States national standards. The organization
14 in an example, like IEEC, developing international standards
15 in Europe and the national manufacturing associations standard
16 for the device. Again, we just simply are trying to recognize
17 and not adopting as our own standard, so that it all depends
18 on the manufacturers. How many, the majority of the device
19 manufacturers, are following which standard? If that majority
20 of the manufactures are following certain standards, then we
21 try to adopt that standard as a recognizable standard.

22 If the FDA has a need to evaluate the device or
23 the drugs, so as long as the voluntary standard meets our
24 requirement, then that voluntary standard can be acceptable.

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1 Again, it is up to the user which standard to
2 follow. We are not forcing the manufacturers to follow
3 exactly certain particular standards, so that we are
4 considering mostly what IEC, the manufacturers of European
5 countries usually follow the IEC, recognize IEC and United
6 States, the manufacturers in this country usually follow our
7 national manufacturer association standard. So both of them
8 are acceptable for us.

9 CHAIRMAN STITT: But those of us who love
10 regulation are a little bit nervous with the FDA having
11 loosened up on everything now. It's a joke, Andrew.

12 Barry, we need to give you a flag so you can --
13 you were throwing the yellow flag a minute ago, right?

14 MR. SIEGEL: Just a comment. In way, I would
15 probably answer this rhetorical question with a rhetorical
16 question.

17 CHAIRMAN STITT: Sounds reasonable.

18 MR. SIEGEL: Which is how does NRC determine that
19 industry standards, including voluntary ones are inadequate to
20 meet its regulatory responsibility for patient, worker and
21 public safety? Isn't that really the issue? Is where does
22 one set the bar and why was the regulation made in the first
23 place? Was the regulation made in the first place because it
24 was concluded that the industry was sufficiently immature,
25 that it had to have prescriptive requirements imposed upon it

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1 or was it made and that then became standard practice or was
2 it made in reaction to a single, adverse event, so-called
3 government by yo-yo. I finally get to get that in. And I
4 think that if you look at that and think about that that
5 really the question is where do you want to draw the bar? How
6 mature is the practice these days and if it is clear that
7 things that are part of regulations have become part of
8 routine practice, that that should be an indication that they
9 no longer really have to be part of the regulations. I've
10 suggested once in the past or twice in the past that there's
11 the old story about the person who wears -- a person who lives
12 in the United States who wears an amulet to ward off tigers
13 and when questioned about why because there are no tigers, the
14 person concludes the amulet is working. And to some extent,
15 NRC regulations can be viewed in the same way. We have no
16 infractions because of the NRC regulations or in fact because
17 this community is practicing to a high level of practice
18 quality.

19 So I suggested once to Chairman Selin that he
20 should be a randomized control trial where you took have your
21 licensees and gave them no regulations and the other half,
22 continued the regulations and then looked to see what the
23 event rate was in the two sets of licensees. That would be a
24 way to determine whether or not voluntary standards or
25 mandatory standards were, in fact, achieving their goal.

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1 CHAIRMAN STITT: Barry, you should be sitting in
2 this chair. You still are better than anybody else. I think
3 it was very clearly pointed out to us that the reason
4 radiation medicine is in good shape, the Commissioners tell us
5 is because they're doing their job well and that was maybe not
6 this last meeting, but certainly the one before that. So
7 that's the answer to your question. It's the amulet.

8 Okay, one comment on my part and then John has a
9 comment. Barry, your rhetorical question to the rhetorical --
10 your rhetorical answer to the rhetorical question is
11 interesting and I would say that since I've been on this
12 Committee, both as a Member and then the Chair, the issue of
13 voluntary standards has changed across at least the
14 therapeutical radiology societies. There were very few
15 standards. Probably the physics group had most and they
16 tended to deal with external beam types of treatments. Just
17 over the recent years there are a number of standards and I'll
18 just confine it to radiation oncology having to do
19 specifically with all sorts of therapeutic isotopes that we
20 use. So there's probably some of both sides, both camps in
21 this. I think that now there are standards that were never
22 there before that should the NRC want to use them are adequate
23 to meet NRC's regulatory responsibility.

24 It's not your turn. Okay, go ahead.

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1 MR. SIEGEL: I guess there are really two issues.
2 One issue is can an industry standard be given deemed status
3 in the regulations where you would say that the licensee, in
4 order to meet this regulatory requirement, shall comply with
5 the standards of ANSI or shall comply with the standards of
6 ASTRO, whatever it is, or the AAPM. That's one issue because
7 that is, in effect, taking an industry standard and making it
8 a regulatory standard. A separate issue that I really was
9 addressing is how you determine whether there is a need for a
10 regulation.

11 CHAIRMAN STITT: And then the other important
12 view of that is how do you interpret that if you're the NRC
13 and what's the flexibility. John, it is your turn.

14 MR. GRAHAM: I guess to concur with Naomi's
15 earlier comment, I think that any standard that this group
16 would recommend on to the NRC has to have a pluralistic
17 background to it. The potential use of stints that would
18 include radioactive material, I think, will be a concrete
19 example where there's going to have to be a very broad review
20 of how the criteria for the use and the implanting of those
21 devices should occur.

22 I think we've spent an extraordinary number of
23 hours discussing Barry's rhetorical response to the rhetorical
24 question and should reiterate that we have proposed formally
25 to the Commission in the past that the assessment of the risks

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1 justifying such regulations will reference comparable risks
2 and comparable modes of regulation for other types of medical
3 practice and we went on to say that the NRC will not intrude
4 in the medical judgments affecting patients and into other
5 areas traditionally considered to be part of the practice of
6 medicine. The fundamental role of this Committee is to
7 continue to remind the NRC that there's a practice of
8 medicine, there are voluntary standards and groups that review
9 those standards that have developed a state of practice of
10 medicine that is higher than any other country in the world
11 and that there has to be an overriding concern about the risk
12 to the patient, worker, public safety before any regulation is
13 promulgated.

14 CHAIRMAN STITT: I'm going to call a break. You
15 put that beautifully and in fact, those specific things that
16 you brought up are later in our agenda and we'll be discussing
17 them in detail. We've got a tight agenda. We need to be back
18 at 10:15, so I'm going to stop this discussion.

19 (Whereupon, the proceedings went off the record
20 at 10:05 a.m. and resumed at 10:22 a.m.)

21 MS. HANEY: You have copies of what I am going to
22 be putting up. Some of the items are redundant with what Don
23 Cool said this morning, so either I will not go through those
24 again or I will go through them quickly. For some of them I
25 have a few more details than Don had.

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1 As far as the Working Schedule that you see, this
2 is the Part 35 Working Group Schedule.

3 Don mentioned that we had until June to get a
4 final document. Knowing that once we start documents into
5 concurrence they tend to come back for some minor changes, so
6 we are working internally against a May date.

7 As Don mentioned, once we got the SRM direction
8 to go ahead, in the June timeframe a writing group was formed
9 to develop a rule based on a modality-based approach. This is
10 the composition of the writing group that was formed.

11 The group went forth and developed documents for
12 each one of the modalities that we had identified. It would
13 be a document that would be a stand-alone rule for that
14 regulation.

15 These documents went to the working group and
16 were considered by the working group and I will touch on that
17 in a little detail. Suffice it to day at this point that we
18 ended up with about three and a half inches of paper going to
19 the working group on just the modules.

20 In August, the working group had their first
21 meeting. Again, these are the people on the working group. I
22 think that it is important to note that we have regional
23 people on the working group as well as two representatives
24 from the states.

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1 These individuals are coming to us from the CRCPD
2 and from the Organization of agreement states. In particular,
3 David Walter is on what CRCPD calls the SR-6 Committee. This
4 is the group that is writing and is responsible for writing
5 the equivalent regulations for the suggested state
6 regulations.

7 So, he is more or less our liaison with that
8 particular committee.

9 One of the items that we did during our meeting
10 in August was to come up with a charter. You should have a
11 copy of that charter. I am probably not going to be able to
12 see it up here, nor am I going to go through all of the items.

13 Basically, it says that we are going to go forth
14 and write and draft the rule. We will work with a steering
15 group to do that. We also will be looking at the enforcement
16 policy.

17 At that first working group, we came up with an
18 outline for Part 35. This was recognizing that we really
19 couldn't have a document that was about three inches thick
20 going into the Rule.

21 In reviewing the modalities that the working
22 group had written, we found that there were very many common
23 things throughout the document. It became very repetitious to
24 use. It also was not very user-friendly for a licensee where
25 they would have multiple modalities.

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1 So, we came up with this tentative structure for
2 keeping the Rule.

3 A key difference from the current Part 35 is the
4 recording keeping and reporting sections. What we are going
5 to be doing is taking all the requirements for records and
6 putting them in a stand-alone section. For those of you that
7 are familiar with Part 20, it is following the same approach
8 as in the current Part 20.

9 At this meeting, the working group also came up
10 with the first version of the alternatives, which you have,
11 and we will leave the discussion of those for later on.

12 The product of that first meeting went to the
13 steering group the first week in September. These are the
14 members that are on the Part 35 steering group. Again, do
15 note that we have the involvement of the states on the group;
16 Tom Hill who is currently with the State of Georgia.

17 The steering group reviewed what we had done.
18 They, in most cases, asked why we did some thing the way that
19 we did it. We had to justify how we came up with our
20 particular alternatives. Why, in some cases, we did not
21 consider other alternatives.

22 They also tended to add a new alternative. In
23 some cases they went a little bit beyond what the working
24 group did so we had to make some changes to those documents.

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1 In fact, that is the document that you have in your book right
2 now.

3 We plan to solicit input on these documents via
4 three mechanisms. One is meetings with professional
5 societies. Another is with public meetings; Don mentioned
6 these. Then, also, through the Internet. These documents
7 will be going on the Internet.

8 Basically, we have a chat room set up so that
9 people will be able to write into us to give us comments on
10 the Rule.

11 As far as professional societies, who we have met
12 with, these are the organizations that we have already done
13 presentations for: The American College of Medical
14 Physicists, American College of Radiology, Oncology Nursing
15 Services, and the American College of Radiation Oncology.

16 Those have been done to date. These are the
17 organizations that we are currently scheduled to meet with:
18 The American Association of Clinical Endocrinologists,
19 American Hospital Association, American Society of Therapeutic
20 Radiology and Oncology, American College of Cardiology, and on
21 down. I am not going to talk as much.

22 The public meetings, Don referenced the dates
23 here and the location. A *Federal Register* notice will be
24 going out informing the public of these meetings.

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1 As I said we have access through the Internet and
2 that is the location on the Internet where you will be able to
3 find these options papers.

4 CHAIRMAN STITT: Cathy, can I ask a question?

5 MS. HANEY: Sure.

6 CHAIRMAN STITT: On your list I don't see AAPM.
7 I see the college. I see the American College of Medical
8 Physicists.

9 MS. HANEY: These are the organizations that
10 contacted us. We did a mailing to all of the organizations.
11 I know that we did pick AAPM.

12 MEMBER FLYNN: ADS also?

13 MS. HANEY: I can't confirm that we did that one,
14 but I am pretty sure that we did.

15 CHAIRMAN STITT: What are you shaking your head
16 at?

17 MEMBER WILLIAMSON: They did contact the ADS
18 board.

19 CHAIRMAN STITT: Okay. How about AAPM?

20 MEMBER WILLIAMSON: I don't know.

21 MS. HANEY: And we just to date have not gotten a
22 request from that organization. So, if you do have contacts
23 with that organization you might just want to give them my
24 name and ask them to call. We will be happy to come out and
25 visit.

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1 MR. COOL: Let me add to that. I think, in fact,
2 there has been a contact. In a couple of cases we missed the
3 window for the meetings because of when we got started.

4 So, we may not have them scheduled in because of
5 scheduling conflicts and some of that sort of stuff because
6 what we asked for, initially, was an opportunity, at the mid-
7 year or annual meeting, be able to interact so that we would
8 be able to interact with a fair number of folks.

9 Unfortunately, some of those have not been able
10 to line up on schedules. I am quite confident that AAPM was
11 on the list that we sent out to. So, we are still in the
12 process.

13 CHAIRMAN STITT: But their meeting probably came
14 right at the wrong time.

15 MR. COOL: I think that is what happened.

16 CHAIRMAN STITT: Fine.

17 MS. HANEY: As far as where we are going from
18 here, now that we have gotten these documents out into the
19 public for comment, the working group is going to start
20 looking at the Rule language associated with items not covered
21 by these options.

22 So, we will be starting our thinking process now
23 for what the proposed Rule should look like.

24 We are working toward a December meeting of the
25 working group to really get into the nitty-gritty of the Rule.

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1 And to also come to a conclusion on which alternative will go
2 forward in the Rule.

3 Once the proposed Rule is issued, it will be out
4 for a 75-day comment period. During that comment period there
5 will be two more facilitated public meetings. And again, we
6 are working toward the final Rule in the Spring of 1999.

7 I will take any specific questions.

8 CHAIRMAN STITT: Okay. We have one hour to
9 discuss the Medical Policy Statement, something that we seem
10 to feel strongly about.

11 So, let's address any final questions to Cathy
12 before that presentation.

13 Any comments or questions?

14 DR. ALAZRAKI: The meetings with professional
15 societies, I don't see a meeting with the Society of Nuclear
16 Medicine on here. Is there a reason?

17 MR. COOL: Dr. Alazraki, that was probably an
18 omission. I spoke to SNM at their June meeting in San
19 Antonio.

20 DR. ALAZRAKI: And a second question on the
21 public meetings that you have. Some of them are two days, one
22 is one day. What is the difference? And who goes to those
23 meetings, who conducts them?

24 MS. HANEY: Chip Cameron is working at the
25 facilitated public meetings. I guess the best thing is if I

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1 just turn it over to him and he can provide the Committee with
2 some information about those meetings.

3 MR. CAMERON: Sure. Both meetings are two and
4 one half days each. There are two public meetings. One is in
5 Philadelphia and one is in Chicago, both for two and a half
6 days.

7 I am in the process of convening the meetings now
8 which means to ensure that the right people are at the table,
9 that all the interests are represented, that I hear about what
10 the concerns are of those interests.

11 I have been working with a number o the
12 associations, boards, societies, colleges, whatever, in terms
13 of recommending people from their interest group to be at the
14 table.

15 The challenge is to keep the size of the group
16 around the table manageable so that we can have a through
17 discussion of the issues. But also to ensure that all the
18 discreet interests out there in the medical community are
19 represented.

20 MS. HANEY: And then I can address the difference
21 in the length of the meetings. The two meetings at the bottom
22 are what we have been calling the facilitated public meetings.
23 The meeting at the top is we have a workshop at the all
24 agreement states meeting, so that is, in fact, a public

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1 meeting. But it is not equivalent in nature or purpose as
2 that of the facilitated public meetings.

3 DR. ALAZRAKI: Then Chip Cameron brings this back
4 to the working group?

5 MS. HANEY: The working group will be at those
6 facilitated public meetings, to listen to what is said.

7 CHAIRMAN STITT: Dan?

8 MEMBER FLYNN: On this proposed outline that you
9 had on the modalities specific sections, you had eight
10 different modality sections, is the working group divided up
11 so that several people work on each sub category, or is it one
12 person for each category? How does it work?

13 MS. HANEY: Right now it is one person per
14 modality. But that isn't to say that a particular staff
15 person has expertise in multiple areas that they aren't adding
16 support to another group.

17 What we had wanted to do was to have one key
18 individual responsible for that particular section and then to
19 present it at a meeting like this to the working group for
20 discussion.

21 What I anticipate happening, too, is that a
22 similar breakdown will occur with the guidance development.
23 In the December timeframe, the focus will be on the Rule and
24 in the January timeframe, the focus will be on the guidance.

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1 What I would like to see happen is some kind of
2 subcommittee of the working group be developed that would be
3 working on guidance in parallel to the main group working on
4 the rule.

5 DR. CERQUERIA: At the agreement states meeting
6 will there be opportunity for public input at that meeting or
7 is it strictly presentations or how will that work?

8 MS. HANEY: Strictly presentations. But I guess
9 as time allows, the public would be able to provide. But the
10 main purpose of that is interaction with the agreement states.

11 DR. CERQUERIA: And for the other two, two and a
12 half days seems very long. Is there going to be sort of a
13 free-for-all discussion, will there be sort of structured
14 input on different parts of the proposals? How will that be
15 organized?

16 MS. HANEY: Well, you are not the first one to
17 raise a question about the length of the meeting.

18 What we anticipate is a structured format where,
19 similar to what you are seeing today, we will just choose an
20 option of one of these particular options or key areas, and
21 address it during a particular time.

22 Chip, did you want to?

23 CHAIRMAN STITT: I would just add on that two and
24 a half days was our best estimate of what it might take to
25 discuss these issues. It is obviously not scientific.

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1 It may be that it is a little too long, but I
2 don't think it will be too long by much.

3 There will be a pre-set agenda for the meetings
4 that will talk about these cross-cutting issues and also other
5 things that have been identified to us through some of the
6 convening process.

7 But the most important thing is that even though
8 there will be a pre-set agenda to keep things structured and
9 organized, we are going to go to the people around the table
10 to see if there are other related items that might be added to
11 the agenda for discussion.

12 So, it is not all locked down; there is some
13 flexibility there.

14 CHAIRMAN STITT: Dennis?

15 MEMBER SWANSON: Sorry to get off the subject,
16 but I did want to back up to the previous conversation before
17 the break.

18 You asked us to respond to issue
19 two, which are transition steps to implement a more
20 positive enforcement program.

21 And all I want to say is I think that this
22 committee would recognize that a more positive enforcement
23 program is necessary and I don't want it to be lost simply
24 because we didn't discuss it. I think we need to come back to
25 that at a future meeting.

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1 MS. HANEY: Right; we will.

2 MEMBER SWANSON: Okay, because this is a critical
3 part of the whole process, in my opinion.

4 MS. HANEY: What I would anticipate happening is
5 that the working group would do a first review of the
6 enforcement policy based on the new Rule.

7 Once we do a first cut, we would present that to
8 the ACMUI for their comments.

9 CHAIRMAN STITT: Let's go around. Andrew?

10 MEMBER KANG: In revising Part 35, there are some
11 similarities with the currently available FDA medical device
12 regulations, so I thought the committee might be interested in
13 hearing and reviewing, very briefly, the FDA medical device
14 regulation, not in the content but in the structure. How the
15 FDA device regulation CFR is formatted and structured.

16 It would take about ten minutes for me to
17 present, briefly, the FDA device regulation.

18 CHAIRMAN STITT: Is it going to help us in how we
19 discuss this?

20 MEMBER KANG: I think the device regulation is
21 very similar in the structure.

22 CHAIRMAN STITT: Do you have anything that we
23 could read at lunch? I think we know what we want to do, we
24 just want to start doing it.

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1 What do you have that is going to be different or
2 helpful?

3 It looks like three inches of something there.

4 MEMBER KANG: No, it would only be five or ten
5 minutes.

6 CHAIRMAN STITT: Why don't you tell us right now
7 what might help us. Sit at your microphone and tell us
8 because we now have only fifty minutes to discuss something
9 that we feel strongly about which is the Medical Policy
10 Statement.

11 So, do you have something that is going to help
12 us discuss these modules?

13 MEMBER KANG: I think it is better to show you
14 but I can explain to you the FDA medical device regulations
15 are formatted as classification of the three different
16 classes.

17 CHAIRMAN STITT: You know Andy, I am going to
18 stop you. I really do want to go on.

19 If you have something to had out, I am going to
20 ask you to had it to the members and we will look at it at
21 lunch. If there is something that we want to have as a formal
22 presentation, I will get the members' input, okay?

23 MEMBER KANG: Sure.

24 CHAIRMAN STITT: I would like to go one to the
25 Medical Policy Statement. Diane Flack?

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1 MS. FLACK: While I'm putting this on I would
2 like to make a comment.

3 We have arranged for a contractor to prepare a
4 NUREG summary.

5 MEMBER WALKUP: Those would be distributed to us?

6 MS. FLACK: They will be available.

7 MS. HANEY: Those meetings will also be
8 transcribed.

9 MS. FLACK: The staff was directed to recommend
10 whether there were any changes needed in the 1979 Medical
11 Policy Statement.

12 As was noted at the last ACMUI meeting, the
13 Medical Policy Statement is important to the entire process of
14 revising the regulations.

15 It was also noted at the last meeting that rather
16 than change the Medical Policy Statement, what might be needed
17 is to better insure that the regulations reflect the Medical
18 Policy Statement.

19 With those introductory remarks, these are the
20 options that the group have come up with.

21 Those who are working on a steering group as
22 Cathy mentioned worked on developing these options and also
23 the pros and cons which are in your notebook.

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1 Option 1 that was in the 1979 statement
2 essentially will remain unchanged in all of the options in
3 your handout.

4 It was felt that it reflected the traditional
5 regulatory function for NRC for all uses of special nuclear
6 material, and really there was nothing to change it.

7 I would also like to mention that my comments on
8 this particular status quo option were primarily taken out of
9 the rationale in the *Federal Register* notice or the Medical
10 Policy Statement.

11 So, some of the rationale may not be current, but
12 we need to understand where it came from in 1979.

13 The second statement, "The NRC will regulate the
14 radiation safety of patients where justified by the risk to
15 patients and where voluntary standards or compliance with
16 these standards, are inadequate", you will see different
17 variations in the options.

18 The original statement was based on the 1979
19 interpretation that NRC had the authority to regulate the
20 radiation safety of patients.

21 The FRN also reflected the fact that NRC wanted
22 to work closely with professional groups in designing
23 voluntary new voluntary guidance for practitioners to limit
24 unnecessary patient radiation exposure.

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1 The third one, "The NRC will minimize intrusion
2 into medical judgements affecting patients and into other
3 areas traditionally considered to be a part of the practice of
4 medicine."

5 We recognize that this physicians have the
6 primary responsibility for their patients. It also left open
7 for the NRC to set limits for the higher risk areas in order
8 to insure patient safety.

9 But it also recognized the consequences that too
10 much regulation might result in poor health care.

11 So, the bottom line is they felt that this was
12 quite a balanced approach at that time.

13 Option 2, that the working group and steering
14 group came up with. This is a little repetitious for some of
15 those that have been involved all the way along, but I know
16 that there are a fair number of people sitting in today that
17 were not on ACMUI last April.

18 This is the April, 1979 recommendation of the
19 ACMUI. The changes that were recommended are underlined.

20 In the second statement, the word 'only' was
21 added twice to place emphasis on the fact that the, "NRC would
22 regulate the radiation safety of patients only where justified
23 by the risk to the patient and only where voluntary standards
24 of compliance with these standards are inadequate."

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1 ACMUI also recommended that an additional
2 statement be added on which is also underlined. "Assessment
3 of the risk justifying such regulations will reference
4 comparable risk and comparable modes of regulation for other
5 types of medical practice."

6 On the third one there was really just one change
7 and that was adding the words, "will not intrude into medical
8 judgements".

9 In this regulation, some of the pros for these
10 recommendations are it is still risk-based which we are all
11 striving for in the revision of Part 35, especially in
12 statement two you can see where justified by risk.

13 Another plus one for this is the "acceptable
14 level of risk associated with regulating the medical use of
15 byproduct material may be lower than in other areas of
16 medicine."

17 Somebody referred to this, this morning. It
18 clearly states in statement three that the NRC will not be
19 involved with physician/patient interfaces.

20 Again, like Option 1, the status quo, it also
21 recognized that physicians have primary responsibility for
22 protection of their patients.

23 Some of the cons that people mentioned was that
24 NRC really did not have the authority, expertise, whatever you

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1 want to call it to assess the risk in other areas of medicine.
2 This would definitely be a new area for us to get into.

3 Another concern that was raised was that there
4 could potentially be a conflict between segments two and
5 three.

6 In two, we say that we will regulate only when
7 justified by risk, et cetera. Then in three, we say that the
8 NRC will not intrude.

9 So, that was listed as a con.

10 MEMBER SWANSON: Excuse me, could you expand on
11 that? I don't understand.

12 MS. FLACK: Yes. It was felt that in two, it
13 says that "the NRC will regulate the radiation safety of
14 patients where justified by the risk."

15 So, what it is saying is that if there is a high
16 enough risk because of a certain medical modality that
17 development of regulations in that area and interaction with
18 NRC would be appropriate in order to insure radiation safety
19 of patients.

20 Then we get down to number 3 and it says that
21 "the NRC will not intrude into medical judgements affecting
22 patients."

23 The concern that was raised there was that even
24 if we have the situation that I talked about in number two,
25 where we have a very high risk modality, that three would

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1 prevent any interaction, any setting of limits, and therefore
2 we would be unable to insure that we have fulfilled our
3 mandate under the Atomic Energy Act to insure the protection
4 of workers and the general public.

5 And that is what the medicine options one, three
6 and four, the group noticed that it was consistent with the
7 NRC's authority in the Atomic Energy Act and that was not
8 listed in Option 2.

9 Again, these are all open to discussion. We are
10 actively looking for your help.

11 Option 3 has a problem in the handout. For those
12 of you who have it in front of you, please look down to pros
13 number 5. It says that the option "provides additional
14 emphasis that NRC's policy is not to minimize intrusion into
15 medical practice." Please cross out the 'not'.

16 That is just if you have the handout from
17 September 15. The one in the back is fine.

18 Now let's talk about Option 3.

19 This was some people's recommendation to come up
20 with a balance between Option 1 and Option 2.

21 There is no change in the first statement. We
22 have kept in the word 'only' because we want the regulation to
23 be risk-based; we are thinking about that all the time as we
24 developing.

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1 The part that was removed there from Option 2 is
2 obviously comparing the risk to other areas of medicine which,
3 as I said, people were concerned that it was not within our
4 authority or expertise to do that.

5 We added a couple of words in this one,
6 "continually strive to minimize involvement". We felt that it
7 provided additional emphasis that the NRC was not just going
8 to jump in and be involved in the physician/patient interface
9 and maybe this was stretching a little bit further than the
10 original statement 3 of NRC's commitment not to get involved
11 in the physician/patient interface.

12 However, by minimizing, it does allow for some
13 involvement, when needed, in the higher risk modality.

14 Again, please remember that in statement three we
15 still recognize that the physician has the primary
16 responsibility for the patient.

17 I am not going to go through all of the pros and
18 cons because I want you to have the maximum time for
19 discussion.

20 CHAIRMAN STITT: Let me ask you a question on con
21 number one on Option 3; it looks like the pro number two on
22 Option 2. There is one word that is different.

23 MS. FLACK: On con number one on Option two?

24 CHAIRMAN STITT: On Option 3 it is con number one
25 and on Option 2 it is pro number 2.

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1 MS. FLACK: I am not sure that I am following
2 you. You are right that the pros and cons do switch around.

3 CHAIRMAN STITT: It is making the same statement,
4 that risk may be lower.

5 MS. FLACK: Right.

6 CHAIRMAN STITT: But when you are looking at it
7 on Option 2 it seems to be a positive, and when you are
8 looking at Option 3 it seems to be a negative.

9 MS. FLACK: There are two facts here. One is
10 that the risks that in the standards that the people in the
11 use of medical byproduct material are held to could be lower
12 than in other areas of medicine.

13 So, not to recognize that is wrong. So, that
14 could be either a pro or a con, depending on which option you
15 have it under.

16 The only thing that we wanted to do was to get
17 away from evaluating the risks in the other areas of medicine.

18 So, the con one, that it may be lowered, that is
19 a con because you may be held to a lower level of risk. It
20 might work against you.

21 MEMBER SWANSON: Let me just comment on Option 3.
22 I think that insertion of the words, "will continue to strive
23 to minimize", you have it down as a pro, that it provides
24 additional emphasis on the NRC's policy. I tend to think that

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1 it has less emphasis on the NRC's policy than the current
2 version.

3 The current version says that "you will minimize"
4 and you say that it will "continually strive to minimize". My
5 interpretation of that is the opposite.

6 CHAIRMAN STITT: I think it is the effect of the
7 more modifiers that you put in the less likely you are to
8 achieve the statement that you are allegedly making. That has
9 how many modifiers?

10 MS. FLACK: It's an interesting exercise.

11 CHAIRMAN STITT: Right.

12 MS. FLACK: The other thing in here is that we
13 don't have intrusion anywhere; we use involvement which we
14 thought was a softer word.

15 MEMBER FLYNN: Procedural request: Can we go
16 through all four options and then come back and debate them?

17 CHAIRMAN STITT: Go on to Option 4. We are
18 getting short on time.

19 MS. FLACK: Option 4 is a very different one than
20 the others. It has no change in the first statement, again.

21 The changes made in this option were made to more
22 precisely reflect what NRC's role actually is. The group felt
23 that really our role for patient safety was to ensure that the
24 physician's prescription is accurately delivered to the
25 correct patient.

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1 It does not question what the actual prescription
2 is.

3 So, this was an attempt by the group to put this
4 on paper. It is risk-based. The regulations would be
5 consistent with the risk posed by the radioactive material.

6 Then, it hones in very closely and precisely on
7 what our role might be. Remember, this is just an option: "In
8 regulating the radiation safety of patient, NRC's role is to
9 assure that the physician's prescription is accurately
10 delivered to the correct patient."

11 In number three, it says that we "will not
12 intrude into the medical judgement forming the basis of the
13 physicians' prescription."

14 Now, one of the cons of this one might be the
15 fact that it is too narrowly focused. But it was an attempt
16 to put down on paper what NRC's actual role is also the areas
17 that we are not interested in intruding in, and that is the
18 medical judgement that is behind the decision.

19 CHAIRMAN STITT: Okay, let me tell you what the
20 rules are. In addition to Judy's rule, which is that you
21 speak when you are spoken to, let me just remind you where we
22 started a year or so ago.

23 When we started having discussions prior to going
24 to the Commission, we spent the good portion of one day,
25 deciding as a group, that the Medical Policy Statement was of

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1 utmost importance and that everything else that the committee
2 did followed from the Medical Policy Statement.

3 That is something that we took on. Don was kind
4 of the clerical person and the final spokesman to put all the
5 little words in there.

6 So, what I am leading up to, is we can't do this
7 by lunch we are going to have to shorten lunch because I think
8 that everything else that we do follows from here.

9 Don Cool said this morning that he wants our
10 comments. He would like our whys and why nots as to
11 preferences and I think that rather than have one of our
12 notorious debates, if there are some things that you like I
13 would like to hear them and focus on one or two options.

14 If there are some parts that you might want to
15 pull from others, that is fair game, too.

16 I just want to say that because Option 4 is quite
17 a bit different than anything that we have thought about,
18 those of you who are therapeutic radiology, those of you who
19 are diagnostic, just be thinking about Option 4 in the context
20 of how you practice.

21 All right, Jeffrey.

22 MEMBER WILLIAMSON: I would like to propose that
23 we drop consideration of Option 4 from what we would
24 recommend.

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1 CHAIRMAN STITT: Well, that is a blatant
2 statement.

3 MEMBER WILLIAMSON: It could, perhaps, simplify
4 the process.

5 CHAIRMAN STITT: Are there some parts of the
6 group that think that Option 4 is just dandy?

7 MEMBER FLYNN: I would like to second that and I
8 want to explain why.

9 Option 4 isn't that bad, in some aspects.
10 However, look at the last sentence in statement two. It says
11 that the "NRC's role is to assure that the physician's
12 prescription is accurately delivered to the correct patient."

13 Now, I happened to research the teletherapy
14 problem because I wanted to see how often the incorrect
15 patient was treated.

16 Now, with Cobalt-60 teletherapy, approximately in
17 the last twenty years there has been variation. There are
18 less cobalt machines, but if you averaged over twenty years, I
19 added up with 100,000 cancer patients treated per year, over
20 twenty years.

21 Each patient gets approximately twenty
22 treatments, so that is two million treatments for twenty
23 years, or four hundred million treatments.

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1 I looked at all the abnormal occurrence reports
2 that the NRC has. Granted not everything is covered, but it
3 goes into the late Seventies.

4 I found seven patients that the incorrect patient
5 was treated. So, the numerator is seven and the denominator
6 is four hundred million.

7 It doesn't happen often, and we do have things in
8 place now to prevent it. We have two means to identify the
9 patient.

10 Typically in a radiation therapy department, as
11 you know, the technologist goes to the waiting room and
12 announces, "Mr. Smith, it is time for your treatment."

13 When I looked at how did these seven people, the
14 wrong patient, come to be treated, in several instances the
15 name was called out and the wrong patient got up; a confused
16 patient or a patient with the same name.

17 The therapist also didn't recognize the patient,
18 assuming that the patient walking to the room was the correct
19 patient and went ahead and treated the patient.

20 Now, in most radiation oncology departments,
21 including professional standards, the second way that you
22 identify a patient is there is a Polaroid photograph in most
23 radiation therapy department in most of the country, not just
24 in my department. This is almost standard practice now.

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1 So, if a therapist doesn't recognize the patient,
2 they have called out the name and that is one way to identify
3 the patient, there is a visual identification; the Polaroid
4 photograph of the face of the patient right in the chart.

5 Now, these patients are treated for three, four
6 or five weeks. Come the second and third week, she recognized
7 the person to be who they say they are.

8 When I came in this morning, I said, "Hello,
9 Judith." I called your name and you responded. I also
10 recognized you visually.

11 So, those are the two ways to identify the
12 person. So, it hasn't happened, to my knowledge, recently.
13 It may have, but I just don't know.

14 But that is an example of a very rare event in
15 teletherapy. Where you have two million treatments in a year
16 and most years there is not a single incorrect patient that is
17 treated.

18 I think the voluntary standards are working; the
19 two means to identify the patient. We realize that that is a
20 serious issue, but it happens very infrequently.

21 Of the seven licensees that I found, and I
22 searched hard to find more, for one licensee it happened twice
23 and that was a licensee in Washington, DC, it happened over a
24 period of ten years. An incorrect patient was treated to
25 teletherapy twice over a period of ten years.

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1 So, that is why, although I liked number four at
2 first, but when I looked it over several more times I realized
3 that it is very narrow, "the correct patient".

4 CHAIRMAN STITT: Actually, it reiterates some of
5 the things that come up later one regarding other parts of how
6 we do our practice. It is very, very focused.

7 Jeffrey? And I would like to hear comments about
8 Option 4 from you practitioners.

9 MEMBER WILLIAMSON: Could I briefly articulate my
10 rationale, why I made the motion?

11 CHAIRMAN STITT: Please.

12 MEMBER WILLIAMSON: One is the statement two, it
13 simply says, "consistent with the risk posed by the
14 radioactive materials." There is no qualification whatsoever
15 regarding the necessity for standards of practice to be non-
16 existent or not adhered to when they are.

17 So, it is an absolute risk inherent to the
18 material itself and totally independent of the sophistication
19 of the practice surrounding it. So, I really think that it
20 opens up the community.

21 The second comment I will make is that I agree
22 with Cathy in that it very accurately reflects the current
23 attitude and practice, in effect, of NRC regulations now.

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1 To me, when I look at this statement, this is
2 clearly inconsistent and much worse than the current 1979
3 formulation.

4 So, without any performance indicators, it is
5 completely non-performance based. No matter how well you are
6 performing, it gives NRC the mandate to regulate every detail
7 of the treatment, planning and delivery process.

8 Secondly, it protects physician judgement from
9 regulation, in so far as it affects patients, only for
10 prescription. So, it very much limits the activities of the
11 physician that involve patients that are exempt from NRC
12 scrutiny.

13 So, I think it really leaves every other aspect
14 of the physician's practice and activities as totally fair
15 game for all kinds of regulations without any kind of
16 qualification about what kind of risk needs to be established.

17 CHAIRMAN STITT: Lou, can I ask you for comments?

18 MEMBER WAGNER: I think that it is necessary that
19 this committee review why this all came about, because I think
20 that we have lost focus of what we are doing here.

21 This came about because of the IOM report. The
22 IOM report and all the other concerns that were brought up in
23 regard to the NRC, we mentioned that the IOM report did not do
24 an investigative history as to why the regulations evolved the
25 way that they did and came out to be what they are.

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1 How did we get to this mess? That was the whole
2 focus of the discussion, prior to these recommendations.

3 At our meeting, reviewing that report, we looked
4 at this 1979 policy because we wanted to get to the idea of
5 how things evolved to this point.

6 The reason that they evolved to this point is
7 because there was an incident that occurred. This policy was
8 changed in 1979 as result of an incident that occurred.

9 Our objection to this policy was that it was this
10 policy that opened the door for the NRC to be intrusive in
11 medicine. I know that the NRC doesn't view what they do as
12 being intrusive in medicine, but we in medicine do view what
13 they do as intrusive in medicine. And that is the whole
14 point, why we wanted that policy reviewed.

15 So, when we are reviewing these other options
16 here, the question should be the doors that are opened up by
17 these policies with regard to intrusiveness in medicine. That
18 is the problem and has always the bone of contention here.

19 So, when we look at these, let's look for the
20 windows, and number four obviously gives a blatant window to
21 be worse than it was before, not better. It is blatant.

22 So, it is out as far as any recommendation that I
23 can see, at least from my point of view and obviously from
24 other's, too.

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1 Option 2 seems to me to be the better
2 modification, although I wouldn't call it ideal at this time.

3 But I disagree with the idea that those cons are
4 cons. I mean, my goodness, you mean that the NRC will finally
5 have to actually do something to educate themselves in
6 medicine? They have been regulating us for so long with
7 regard to what goes on in medicine and what our policies are.

8 These are not cons; these are pros.

9 CHAIRMAN STITT: I think we are going to burn
10 Option 4. Let's talk about Option 2 some more.

11 To refer to your comment about con number one in
12 Option 2, "requires NRC to assess risks in other types of
13 medical practices". I don't know if that requires the NRC to
14 assess risk. I think there are data all over the place,
15 books, papers, that discuss radiation medicine in respect to
16 medicine as a whole.

17 Anybody over here? Will and then --

18 MEMBER NELP: Well, I thought about that a lot.
19 And I think that the person from the NRC brought up the point
20 that they're actually going to have to reference this somehow
21 in writing and regulation. I think that's going to be very
22 difficult to do without getting into a real bag of worms. And
23 that's the issue that I see.

24 I think it's very appropriate to justify the risk
25 based on the general practice of medicine in other areas of

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1 medicine, but they feel that with this kind of a statement,
2 you're going to have to compare it in writing. It says will
3 reference comparable risk and comparable modes. And,
4 therefore, I think that we're stepping into an area where we'd
5 really like to simplify it much more than that.

6 I'm very much against that, even though my good
7 friend John Graham did that in a very eloquent fashion. I
8 think it really does raise an issue where they're going to
9 dive in there and start looking at regulations for anesthesia
10 or regulations for surgery and things that I just don't feel
11 they have the capacity to reference in writing or either in
12 implication. And I'm not sure that we do when you get right
13 down to it.

14 As a physician, I'd like to get rid of that.

15 CHAIRMAN STITT: Dan?

16 MEMBER FLYNN: I don't think it should be us, and
17 I'm sure the NRC doesn't want it to be them. But on this
18 issue, this particular issue, assessing the risk in terms of
19 other risks in medicine, this is where I think money would be
20 well-spent.

21 This is where the IOM money would have been
22 better spent. This is where some of the engineering human
23 factors, big budgets must have been spent for some of these
24 big documents I've been getting. But this is where money
25 should be spent for an outside major study of risk by a third

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1 party, a disinterested party, not the regulated community, not
2 the NRC, but an outside contract, which might take a year or
3 two. But this would form the basis, then.

4 And it wouldn't have to be, you say, referencing
5 risk, but as long as whatever the regulations are, it's at
6 least on the same order of magnitude or within an order of
7 magnitude of other risks that --

8 MEMBER NELP: Correct.

9 MEMBER FLYNN: -- this outside consulting group,
10 which would be some major consulting group --

11 MEMBER NELP: The language clearly says such
12 regulations will reference, and I presume in writing,
13 comparable risks and comparable modes of regulations in
14 medical practice, which really is so broad, you know, somebody
15 could step in and find things that were very incompatible with
16 our goals.

17 CHAIRMAN STITT: As an example, the
18 misadministration just this past year that resulted in serious
19 consequence compared to the numbers have documented in the
20 literature serious outcomes of the two weight loss drugs.
21 Now, if you want to talk about comparable risk, and those
22 things don't compare at all, meaning the risk of that
23 misadministration is tremendously low compared to that.

24 I think that assessment of risks could continue
25 to be suggested to the NRC. And we don't have to get into the

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1 details if it's written or it's a graph or whatever. Let's
2 just pick everybody. We'll just start in a line and go on
3 around, starting with Naomi.

4 DR. ALAZRAKI: Actually, I think the point is
5 that if you look at high-risk procedures performed in
6 medicine, which can affect the patient with an outcome of
7 death as a complication of the procedure, there are no
8 regulations. What regulations are there? There are none.
9 They don't exist, even for the highest-risk procedures.

10 Radiation is regulated. It's just about the only
11 thing that I can think of unless someone can think of
12 something else which is regulated and held to the kind of
13 enforcement standard that we are.

14 So in a sense, it's useful to have that in there
15 because until other high-risk procedures fall under some sort
16 of government regulation that -- I don't know. I can't
17 imagine, but maybe that's going to happen in the future
18 somewhere. In a sense, the statement says that there's no
19 comparable regulation in any other area of medicine.

20 CHAIRMAN STITT: Let's go on along the line.

21 DR. CERQUIERA: I have lots of problems with this
22 in the sense that I think all the diagnostic things we do
23 could be taken out of this category altogether because I don't
24 see those risks in comparison to everything else I do as a
25 cardiologist is that great. And so I think what we're left

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1 with is the therapy. And there I think the standards are a
2 little bit clearer. And, as you said, the complication rate
3 of misadministration is relatively very low.

4 So I think if you actually looked at this, I
5 don't think you really need to deal with the risks for
6 diagnostics in any way but really just would concentrate on
7 the therapeutic. So I see that as less of a problem.

8 CHAIRMAN STITT: Dan, do you have any other
9 comments?

10 MEMBER FLYNN: No. I mean, I think it may not be
11 -- for example, when you go into a hospital and you have
12 patients who are under medication or confused, you notice that
13 any hospital you go into, the patients always have some kind
14 of a wrist band to identify them in case they can't identify
15 themselves or in case the nurse or doctor doesn't know that
16 patient.

17 So there's a reason for that. And I'm sure the
18 reasons are very good reasons. So I think there are areas of
19 medicine where there are certain standards that are expected
20 in any hospital. I can't imagine walking into a hospital and
21 going through patient room after patient room and the patients
22 don't have some means of identification.

23 So I think there are standards out there and
24 there are reasons for the standards. It may not be in every
25 subspecialty.

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1 CHAIRMAN STITT: Are you fidgeting for a reason?

2 MR. SIEGEL: I'm fidgeting, yes.

3 CHAIRMAN STITT: Okay. Go ahead.

4 MR. SIEGEL: I'd like to demure at Dr. Nelp's
5 comment because I think its suggesting that what the Committee
6 suggested at its last meeting should be withdrawn also
7 suggests that when the Committee has been suggesting for about
8 the last seven years should be withdrawn, which is that the
9 NRC should not have Atomic Energy Act tunnel vision and assume
10 that that's the sole basis for which it should charge forward
11 in its regulatory stance.

12 Even if one allows that the Atomic Energy Act
13 provides the NRC the authority to regulate components of the
14 practice of medicine, -- let's take that as a given -- the
15 Atomic Energy Act is sufficiently narrowly worded in that area
16 or sufficiently vaguely worded that it also provides the NRC
17 with a whole lot of regulatory discretion in terms of how it
18 regulates the practice of medicine.

19 And the purpose of the proposed Policy Statement
20 Number 2 was to provide a legal cure for Atomic Energy Act
21 tunnel vision, which was to say that when you make these
22 regulations, you simply cannot ignore how the risks of this
23 part of radiation medicine compare with the risks of the other
24 parts of medicine.

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1 Will it be difficult? Sure. Is it appropriate?
2 Absolutely. And is there expertise in the building? Probably
3 not, but perhaps it's time that there was expertise in the
4 building to go about making these kinds of judgments.

5 You simply cannot ignore the risks of a
6 teletherapy treatment by comparison with neurosurgery or
7 phen-fen or you name it when you make a regulation that
8 impacts how medicine is practiced.

9 There are only so many resources available to
10 practice medicine. The resources have to be put in the place
11 that does the greatest societal good, not just the greatest
12 good as viewed within the narrow window of the Atomic Energy
13 Act.

14 MEMBER NELP: Since my name was mentioned --

15 CHAIRMAN STITT: All right. We'll go down this
16 line. Go ahead, Will.

17 MEMBER NELP: Well, Barry, I agree with you. I
18 don't disagree with the purpose of the statement that's trying
19 to be portrayed. The way it's written, it says to me that the
20 NRC might have the license to go in and put on paper
21 comparable risks. And God knows what they're going to come up
22 with that would be comparable risks.

23 I don't know what the statements are in
24 anesthesia for operating room procedures, for sanitation,
25 environmental contamination, and things like that that are all

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1 -- they may be very picayune. I really don't know. And I
2 could see how this would give an opening for them to try to
3 reference those things in writing, and it could become very
4 cloudy.

5 That was my concern, and that was a concern I
6 think the NRC said, "We don't know anything about medicine,
7 and you're asking us to get involved." And we're trying to
8 get them out of it. And that's where I think that there's a
9 contradiction here. I'd like to get them out of the other
10 areas of medicine, including the areas of medicine associated
11 with radiation therapy.

12 CHAIRMAN STITT: I think you made our point. My
13 response is there's lots of information about risk in
14 medicine, all aspects of medicine. This is not new. It's
15 easily available.

16 We focused a lot of our presentation on radiation
17 medicine. Our first slides when we presented to the
18 commissioners were entitled, "Risk of Radiation Medicine." So
19 this has been felt to be very important to this group, at
20 least according to the old man in the room long before the
21 rest of us were even on the Committee because I think you've
22 been hanging around longer than any of us if you said seven
23 years.

24 Lou, you've got your hand up and anybody else
25 that would like to make a comment.

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1 MEMBER WAGNER: Yes. I'd like to make a comment
2 on Number 2, "Cons." It says, "Implementation of statements 2
3 and 3 could be in conflict when the level of risk justifies
4 intrusion." Read 3. Three says, "The NRC will not intrude."

5 The point is that they're trying to justify
6 intrusion. That's what their con is really implying, trying
7 to justify more intrusion. And I want to get back to that
8 point that this is where we have to recognize where the
9 disagreement and the conflict are.

10 The NRC needs a mindset change. Medical practice
11 is medical practice. Medical practitioners should practice
12 medical practice. The NRC doesn't have the expertise to do
13 this. This is why we don't want them intruding.

14 They botched up the system. That's why we're in
15 a mess right now. And that's the intrusion problem again
16 that's creeping in here. It's the mindset. Let's turn it
17 around.

18 CHAIRMAN STITT: Jeff? Dennis, you're going to
19 have to come up with something in a minute.

20 MEMBER WILLIAMSON: Yes. Well, I guess I would
21 like to speak in support of Retaining Item Number 2 of Option
22 2, which is you know our addition of "Assessment of the risks.
23 justifying such regulations will reference comparable" medical
24 specialties, et cetera.

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1 I think one question to ask is: How did we get
2 from Option 1, which was a statement of intent that intrusion
3 into medicine should be limited by NRC and when it's done
4 should be justified by some sort of risk assessment, to Option
5 4, which says we don't have to establish any actual
6 statistical risk to patients at all just because there's a
7 theoretical risk because it's a high activity source, we can
8 go and regulate any detail we choose to?

9 I think the intent why we put in this
10 qualification was to prevent NRC from concluding because
11 there's a possibility of a patient injury from a technical
12 error, therefore, there's a significant risk to the patient.

13 I think that's the reasoning that prevails in the
14 agency today. And Option 2 was modified by our group and
15 voted on because we were trying to at least force them to go
16 through some sort of a process to quantitatively justify
17 imposing a regulation which intrudes into the practice of
18 medicine by really looking at: Is there a realistic risk?
19 Are standards inadequate? Are they not being followed on a
20 large scale instead of reacting to single events? So I really
21 strongly feel we should keep that component of the statement
22 that we approved before.

23 One thing we might consider is I think -- it is a
24 good point they've made down here that maybe Statements 2 and
25 3 are in conflict. One could potentially maybe imagine a

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1 situation where the qualification we've added in Item 2 might
2 be violated and might require from their perspective to impose
3 some restraints on the way the field is practiced.

4 CHAIRMAN STITT: You had your hand up first. Do
5 you want to go or do you want to --

6 MEMBER GRAHAM: I'm politely waiting, Madam
7 Chairman.

8 CHAIRMAN STITT: Go ahead.

9 MEMBER GRAHAM: I think it's interesting that in
10 the options that were discussed that are in here, Options 1,
11 2, 3, and 4, the first part of the policy statement that "The
12 NRC will continue to regulate the medical uses of isotopes as
13 necessary to provide for the radiation safety of workers and
14 the general public," that wasn't a point of dispute today
15 apparently. That wasn't a point of dispute when we went
16 through this back in April. And it's interesting if you read
17 the background material to the 1979 statement, it was not an
18 issue at that point in time.

19 I have a problem with the fact that in the review
20 of the options, the statement, the pros that's under Option 1,
21 which was the status quo, first pro is that "Consistent with
22 NRC's authority in the Atomic Energy Act of 1954, as amended,
23 to regulate domestically the uses of byproduct material,
24 including medical use, to protect public health and minimize
25 danger to life and property."

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1 That's a pro as identified for the status quo.
2 It was clarified in the verbal presentation of options this
3 morning that it is not considered to be present in Option
4 Number 2, which was the language that this Committee
5 recommended back in April.

6 Going back to the original policy statement, --
7 and it's on Page PSMU-2 -- the central question is a question
8 of policy, not authority, namely: To what extent should the
9 protection of the patient be considered in NRC's regulation of
10 the medical use of byproduct material?

11 From the standpoint of authority, it is clear
12 that the NRC can regulate the medical uses of byproduct
13 material to protect the health and safety of users of this
14 material; for instance, patients. In licensing the possession
15 and use of byproduct material, NRC establishes limits within
16 which physicians exercise professional discretion.

17 From the standpoint of policy, these limits
18 depend on how NRC views the potential hazard to the patient's
19 health and safety in the uses of the byproduct material.

20 So I would reiterate, as it was stated back in
21 1979, that there's never been a question of authority.
22 There's a question of policy that's being debated.

23 It goes on to state in the next column that the
24 NRC will not exercise regulatory control in those areas where,
25 upon careful examination, it determines that there are

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1 adequate regulations by other federal or state agencies or
2 well-administered professional standards. And to put it in
3 context -- and Dr. Cerquiera?

4 DR. CERQUIERA: Yes, yes.

5 MEMBER GRAHAM: I want to make sure I try to
6 pronounce that correctly.

7 The concern that this group has debated in the
8 past, if you read this original language in '79 in the third
9 column, the Commission believes that the diagnostic use of
10 radioactive drugs is in most cases clearly an area of low
11 radiational risk to patients. Therefore, NRC will not control
12 physicians' prerogatives on patient selection, et cetera, et
13 cetera, but that we will have regs floating all over the place
14 that have created problems in the way the practice takes place
15 today.

16 CHAIRMAN STITT: I'd like to make a comment that
17 in Option Number 2, I think it directly relates to PSMU-2, the
18 phrase that you just read to us that these limits from the
19 standpoint of policy depend on how NRC views the potential
20 hazard to the patient's health and safety in the uses of
21 byproduct material.

22 What we are asking is that the NRC view those
23 hazards in the context of comparable risks and comparable
24 modes for other types of medical practice. I think it's

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1 support we're asking. We have put in a sentence that supports
2 the statement from September of 1995.

3 MEMBER GRAHAM: I would suggest, in summary, that
4 we may as a Committee want to discuss whether the
5 recommendation from the ACMUI is simply modified to move
6 Statement Number 3 into Position Number 2, "The NRC will not
7 intrude into medical judgments affecting patients in other
8 areas traditionally considered to be part of the practice of
9 medicine." That's the overriding concept.

10 I do not believe the implementation of Statements
11 Number 2 and Number 3 could be in conflict if they truly
12 follow Statement Number 2 and then only get into issues that
13 get in to an assessment of risks because if you leave the
14 practice of medicine open, then any assessment of risk is
15 going to get into a comparisons of things like open-hearted
16 surgery and neurosurgery and the unbridled ability of
17 physicians to prescribe drugs as they perceive the need for
18 their patients will best be met. I think, again, that's what
19 we're trying to emphasize.

20 I would recommend at most we rearrange the
21 sequence of the three statements. But I would leave it with
22 the recommendation the Committee made back in April because
23 the emphasis that we're trying to convey back to the
24 Commission is that the practice of medicine is why the area of

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1 patients is different than the other areas for the general
2 public's safety.

3 MEMBER WAGNER: Is that a motion?

4 CHAIRMAN STITT: That's just what I was going to
5 ask.

6 MEMBER GRAHAM: So moved.

7 MEMBER WAGNER: Second.

8 CHAIRMAN STITT: You guys are doing a good job.
9 I think it's because you're hungry.

10 Let's discuss the motion that's on the floor.

11 MEMBER SWANSON: I would actually recommend an
12 additional change to current Statement Number 2, which would
13 now be Statement Number 3 under the motion. I'm a little
14 concerned in that I would like to tie down the issue of the
15 second clause in the first sentence, "and only where voluntary
16 standards or compliance with these standards are inadequate."

17 And I would suggest that a way that we can tie
18 that down is by changing the second sentence of Number 2 to be
19 "Assessment of the risks. justifying such regulations will
20 reference comparable risks and comparable voluntary standards
21 and modes of regulations for other types of medical practice."

22 CHAIRMAN STITT: Naomi?

23 DR. ALAZRAKI: I think that's very good because
24 the voluntary standards are really the only thing that exists

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1 in other areas of medicine. And that's what we would like to
2 move toward and away from, the regulatory enforcement.

3 CHAIRMAN STITT: Go ahead.

4 MR. SIEGEL: Well, that's not entirely correct,
5 Naomi. I mean, there are regulations that regulate blood
6 banks, for example, which is part of the practice of medicine.
7 There are some FDA regulations that do get into having some
8 influence over the minute by minute practice. So I don't
9 think that we should ignore that there is some other
10 government regulation.

11 Moreover, depending on how you choose to be
12 reimbursed by the Health Care Financing Administration, if you
13 choose to be JCAHO-accredited as the deemed basis for being
14 reimbursed, then that's one approach. But if you say,
15 instead, "We don't want to do that. We'd rather be regulated
16 by direct Medicare inspection," then you have to comply with
17 all the Medicare regulations about the precise nature of how
18 your practice is structured and how your institutions does
19 things.

20 So there is other regulation in medicine. I
21 think voluntary standards and regulation would be a reasonable
22 change to this, but there is other regulation.

23 MEMBER NELP: I have a pertinent comment. If you
24 look at Option 2, Section Number 2, when you say, "Assessment
25 of the risks. Justifying such regulations will reference

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1 comparable risks and comparable voluntary standards and modes
2 of regulations," do you mean of governmental regulation?

3 If you say "governmental regulation," then you're
4 pretty free and clear. But if you say "regulation," you're
5 talking about infectious disease control in the hospitals.
6 You're talking about blood bank. There may be governmental
7 things for blood bank.

8 But I'm wondering if you said "governmental
9 regulation," I don't know what the government regulates in
10 medicine, frankly, but I know there are all kinds of
11 regulations out there for things that are vaguely related to
12 the practice of medicine. And I think you want to avoid that.

13 Is that what you meant, John or Barry,
14 governmental regulation in here, modes of governmental
15 regulation?

16 MR. SIEGEL: I think what that second sentence
17 means is that the regulation of medicine should be
18 medicine-informed, to coin another new phrase, not just
19 risk-informed but medicine-informed. It has to be viewed in
20 the context of the overall practice of medicine.

21 CHAIRMAN STITT: I think that is what this says,
22 but my comment is I like the voluntary standards. That keeps
23 coming up in all of the material we've been given. We've
24 discussed it all morning. So it makes a reasonable addition.
25 Do you want to --

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1 MEMBER SWANSON: Can I make a motion to amend
2 that?

3 CHAIRMAN STITT: Yes. That's what I wanted to
4 get to next.

5 MEMBER GRAHAM: Could Dennis read back the
6 proposed amendment to the original motion because I didn't
7 follow it?

8 CHAIRMAN STITT: Now, we've done this before,
9 though. I know we will walk ourselves through this. Go
10 ahead, Dennis. And we have to deal with that next.

11 MEMBER SWANSON: I propose that the second
12 sentence of Item 2 under Option 2, which would become Item 3
13 under your motion, --

14 MEMBER GRAHAM: Correct.

15 MEMBER SWANSON: -- would read, "Assessment of
16 the risks. Justifying such regulations will reference
17 comparable risks and comparable voluntary standards and modes
18 of regulations for other types of medical practice."

19 MEMBER GRAHAM: So it is the addition of the
20 words "voluntary standards"?

21 CHAIRMAN STITT: That's correct.

22 MEMBER SWANSON: "Voluntary standards," yes.

23 CHAIRMAN STITT: Are we ready to vote on that?

24 MEMBER GRAHAM: I accept that.

25 DR. ALAZRAKI: Can I just --

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1 CHAIRMAN STITT: Naomi?

2 DR. ALAZRAKI: What about the idea of government
3 in there for government regulation? Could we have some other
4 discussion of that?

5 CHAIRMAN STITT: My feel was that that was
6 implied that regulation referred to government regulation. I
7 don't know if it needs to be overtly stated.

8 DR. ALAZRAKI: Okay. Barry, I think that any
9 regulations that you can think about in other parts of
10 medicine are by voluntary organizations, and they're really
11 guidelines.

12 MR. SIEGEL: What about the JCAH? Now, that's
13 not a voluntary --

14 DR. ALAZRAKI: That's a private organization.
15 It's totally voluntary.

16 CHAIRMAN STITT: The FDA regulations for
17 mammography, those are not voluntary.

18 DR. ALAZRAKI: Those are not voluntary, correct,
19 but those are implemented through the American College of
20 Radiology. The FDA has more or less turned that over to the
21 professional society.

22 CHAIRMAN STITT: Do you want to deal with the
23 amendment we've got? And then if somebody wants to make an
24 amendment to stick "government" in there, we could do that
25 separately.

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1 I'd like to vote on the amendment to the motion,
2 and the amendment is to insert "voluntary standards" following
3 the word "comparable." Everybody in favor?

4 (Whereupon, there was a show of hands.)

5 CHAIRMAN STITT: Opposed?

6 (No response.)

7 CHAIRMAN STITT: All right. Is there an interest
8 of the group to insert "government regulation" or is there an
9 interest of the group to insert "government"?

10 (No response.)

11 CHAIRMAN STITT: Okay. If there's no motion,
12 then let's deal with what we have on the floor. And because
13 you made it, you repeat it.

14 MEMBER GRAHAM: You have to be kidding.

15 CHAIRMAN STITT: Well, as I understand it, it was
16 to move Point Number 3 --

17 MEMBER GRAHAM: "The Advisory Committee on the
18 Medical Use of Isotopes is reiterating its recommendation to
19 the Nuclear Regulatory Commission that the statement of
20 general policy to guide regulation of medical uses of isotopes
21 would be changed," that Item Number 1 would have no change,
22 that the sequence of the following two items would be
23 modified. Item Number 3 would now become Item Number 2 with
24 no change in the wording.

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1 Current Item Number 2 would become Item Number 3
2 with the addition of the wording "voluntary standards and"
3 into the second sentence that refers to the assessment of
4 risks.

5 MEMBER WAGNER: Point of clarification. That's
6 for Option 2.

7 MEMBER GRAHAM: This is Option 2.

8 CHAIRMAN STITT: All right. Let's vote.

9 MEMBER GRAHAM: Call the question.

10 CHAIRMAN STITT: Those in favor of the motion
11 that was just eloquently stated by John Graham, raise your
12 hands.

13 (Whereupon, there was a show of hands.)

14 CHAIRMAN STITT: Those not in favor?

15 (No response.)

16 CHAIRMAN STITT: 11:31.

17 MR. SIEGEL: Judith?

18 CHAIRMAN STITT: Sir?

19 MR. SIEGEL: There may be some confusion about
20 how former Option 2 actually reads in terms of where the
21 inserted phrase goes. Dennis, why don't you read it and
22 insert the phrase you have in mind just to get the record
23 straight?

24 MEMBER GRAHAM: Do you want me to read it?

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1 CHAIRMAN STITT: Go ahead, John. You seem to be
2 the reader.

3 MEMBER GRAHAM: What is now the third phrase of
4 our recommended general policy would read, "The NRC will
5 regulate the radiation safety of patients only where justified
6 by the risk to patients, and only where voluntary standards or
7 compliance with these standards are inadequate." There's no
8 change from what we voted on in April.

9 The second sentence would now read, "Assessment
10 of the risks. Justifying such regulations will reference
11 comparable risks and comparable voluntary standards and modes
12 of regulations for other types of medical practice."

13 CHAIRMAN STITT: Everybody clear in the back row?

14 (No response.)

15 CHAIRMAN STITT: All right. We're going to have
16 an hour for lunch. I want you to be ready to roll at 12:30.
17 We've got a rough afternoon, one of your favorite topics:
18 quality management programs. We will not be allowed to break
19 until it's down.

20 (Whereupon, a luncheon recess was taken at 11:36
21 a.m.)

22

23

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1 A-F-T-E-R-N-O-O-N P-R-O-C-E-E-D-I-N-G-S

2 (12:41 p.m.)

3 CHAIRPERSON STITT: Everybody ready to roll?

4 Let's see, what is the time limit. We have two hours to hear
5 Sam Jones discuss with us quality management program.

6 MS. HANEY: Sam Jones is a member of the working
7 group and is going to do the presentation on quality
8 management program, but before he started, I would just like
9 to draw everyone's attention back to the SRM that got us
10 started on this, the DSI-7. It's not necessary for you to
11 reference back to it, but basically what it gets at is that
12 the Commission said that the quality management program
13 provision should be re-evaluated and revised to focus on those
14 requirements that are essential for patient safety, EG
15 conforming, confirming patient identity, requiring written
16 prescriptions and verifying dose.

17 To the maximum extent possible, the requirements
18 should be revised to be risk informed, giving this objective a
19 mixed approach of performance based rules and otherwise
20 prescriptive regulations should be pursued.

21 I guess I am just mentioning that because to
22 bring to home that no QMP is not an option. We are really
23 starting with this as our baseline of direction and then going
24 from there. It is under the section that is update of
25 revision of part 35. It's one, two, three, four pages down.

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1 So when you are considering Sam's presentation and the
2 alternatives that the working group put forth, this was the
3 starting point for those discussions.

4 Okay. Sam?

5 CHAIRPERSON STITT: Sam, you and I talked about
6 how we like to try to run these two hours. Why don't you
7 review that for the group?

8 MR. JONES: Okay. What I would like to do is
9 have the slides. I have the slides over here in the
10 projector. Then Pat has electronic versions of the slides and
11 also an electronic version of the rules. I want to accomplish
12 four things within the next couple hours here. I want to
13 start off with a general review of the full alternatives that
14 were developed by the working group and the steering group.
15 We have them electronically.

16 As we go through those four alternatives, we are
17 going to try to get those comments in real time on this
18 projector over here so you can see them and we have them
19 captured electronically. It will save us some time later.

20 The second thing I want to do is actually review
21 the rule itself, go through each section of the rule and then
22 for all the committee to be reading the rule language, which
23 will be electronically on your left. We'll go through it
24 section by section. Then I want you to look at it and say is
25 there a specific problem with this section. What is the

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1 problem. Identify the problem and state why it's a problem.
2 Then come up with a resolution for the problem.

3 The third thing would be we'll go through the
4 pros and cons for the four alternatives that were developed by
5 our work group steering group. That information is in your
6 briefing books, as well as the rule language.

7 The last thing I would like to do is take a few
8 minutes to let you tell us anything that you think might be
9 another alternative that we haven't thought of.

10 Is everybody agreeable to that format? Let's
11 just try to step through it. Penny is going to keep me honest
12 on the time over here.

13 The first alternative was to maintain the current
14 requirements. It's essentially going with the status quo, no
15 change at all.

16 MEMBER NELP: Next.

17 MR. JONES: Okay. The second option would be to
18 have a written QMP only. Essentially that would be A of a
19 current status quo or the current rule.

20 The third one would be to require a quality
21 management program retaining a written, or actually retain
22 each written directive and a record of each administered
23 dosage requiring a written directive, and for the licensee to
24 perform audits.

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1 The fourth one would be to require the quality
2 management program which is essentially A, to retain records
3 of administered doses and keep the written directives, and
4 then to retain records of recordable events.

5 Now I want to go back through and start with the
6 first one. We're going to go through the pros and cons later.

7 But maintain the status quo. I'll tell you what
8 let's do. Let's go next and we'll come back to this. It
9 might be better if we go through the actual rule language
10 itself.

11 So the current rule language is in alternative
12 one. If you look behind alternative one, it gives you the
13 current rule language. The rule language will be
14 electronically up here as well.

15 CHAIRPERSON STITT: We're on page three, for
16 those of you who are working off the paper, right?

17 MR. JONES: There's only one file on that one.

18 Let's read from here then, section A. What I
19 would like from the Committee is to read section A, determine
20 is there a problem with section A. What is the problem and
21 what needs to be fixed? Or can we say that section A is okay
22 and we can move.

23 What I am trying to do is determine what you see
24 is is the problems with individual sections of the QM rule.

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1 CHAIRPERSON STITT: Is it correct that section A
2 is a part of all the four alternatives? That's the way I read
3 it.

4 MS. HANEY: There is a section A, but the section
5 A's do not match. Basically what happens is alternative one
6 gives you all the A, B, C, et cetera. For the rest of the
7 versions, alternative A becomes that part of a QM program
8 there should be some objectives.

9 So there is a comparison, but it is not a
10 verbatim comparison because we started to make some changes in
11 the rule text.

12 MR. JONES: If we didn't change 3532 A at all
13 would that be a problem?

14 CHAIRPERSON STITT: John, did you have a comment
15 or are you just gasping?

16 MR. GRAHAM: It's a process question. Could we
17 have the Committee discuss the four options and identify
18 whether there's a clear consensus on a preferred option and
19 then probably discuss the difference between the current
20 language and the language that would be introduced under the
21 preferred option?

22 CHAIRPERSON STITT: That is how we worked the
23 first section. Is there a reason you want to do it
24 differently? I think we're struggling.

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1 MR. JONES: We could do that. We could do that.
2 Okay. What I was thinking of doing first, you know, we have
3 options in the back that we will discuss. I was trying to see
4 right up front, you know, identify the problems with the
5 current language.

6 Okay. Let's go through each alternative then if
7 you want to. We'll forget the rule language for now. It's
8 getting a little cumbersome.

9 No change. Okay. The perspective here, this is
10 the perspective of the NRC working groups and the steering
11 group, the pros and cons. The first pro would be no
12 additional regulatory burden of licensees, status quo, nothing
13 would change.

14 The second pro, well you can read through these
15 pros and cons. Do we have any comments on these pros and
16 cons?

17 MS. HANEY: Well, Sam, I would say why don't you
18 just go through all the alternatives, present them, and then
19 we'll just open it up to the group to discuss it.

20 MR. JONES: We'll go through all the options?

21 CHAIRPERSON STITT: Yes. I think so.

22 MR. JONES: Okay. Go back to page one.

23 MS. HANEY: What the working group basically did
24 is we decided, you know, we always use status quo as the first
25 alternative. For any alternatives after that, we said what's

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1 important to a QM program. There is a requirement for some
2 objectives. Whatever those objectives may be, we're not going
3 to say right now. But you need to have an objective.

4 Then the next important part is an audit. Then
5 the next one is some record keeping component of that.

6 So all the different alternatives are really a
7 different variation of those three things. Once you get
8 beyond that step, then we started looking at if we were to
9 change rule language, rather than being as prescriptive in
10 alternative one where we said that prior to each
11 administration a written directive is prepared for and we go
12 teletherapy, gamma stereotactic, brachy therapy, we just went
13 at that point to maybe taking it to a dose base, that saying
14 only a written directive is required if you are greater than
15 50 rem.

16 There are several benefits to doing it that way.
17 One of course is with emerging technologies. It's also giving
18 a licensee more flexibility in taking some of the
19 prescriptiveness out of the rule.

20 So those are some of the things that you start to
21 see in the rule text. So the first thing is from the
22 standpoint of which components of the QMP program do you feel
23 are important. Can you live with just objectives or do you
24 need the further variations of it? Then after that, maybe as

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1 you decide on what alternative you would like to have, then we
2 can start looking at the rule text.

3 CHAIRPERSON STITT: If you could tell us how one
4 through four vary, I think that will --

5 MR. JONES: Cathy, you put this together, so you
6 can do some of this for me, okay?

7 MS. HANEY: I'll tell you what caused this to
8 come about. As the working group member developed these
9 different things, I started reading through the different
10 alternatives and I started asking myself what was different
11 between one and two, and two and three. So I was responsible
12 for these charts being created, which I'm not sure the members
13 of the working group were thrilled about.

14 But anyway, what we went through are in our
15 minds, the key items for consideration. If you look, these
16 items are really reflected in the pros and cons. In some
17 cases, we turned say a con into a pro statement just to have
18 it fit into this table a little bit better.

19 So we always felt that no matter what alternative
20 we were dealing with, that you needed some type of objectives.
21 Then we felt the next key thing was the audits. In only
22 alternative one and three did we put in an audit requirement.

23 The next thing that we considered was the need to
24 retain written directives and the records of administration.

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1 Again, that just showed up in alternatives one, three, and
2 four.

3 The next item was whether they needed to submit,
4 the QMP licensee needed to submit to NRC. That was only under
5 status quo.

6 Then whether the licensee was required to
7 maintain recordable events. That showed up in alternatives
8 one and three.

9 Now this is where the recordable events becomes a
10 little bit of a sticky issue because recordable events
11 surfaces again tomorrow afternoon when we start talking about
12 the threshold for reportable and recordable. So depending on
13 what alternative you take there under that, you may no longer
14 have recordable events, so this last item is moot point.

15 MEMBER SWANSON: Actually there's an error there.
16 It's not under option three. It's under option four.

17

18 MS. HANEY: Okay. We'll stand corrected on that.
19 So you might want to just, if you approach it from the way the
20 working group did, it's what's important to a QM program, with
21 these Xs you may be able to kind of focus down on one of the
22 alternatives.

23 CHAIRPERSON STITT: Okay. I think we are getting
24 there. Do you want to spend more time just explaining two
25 through four or do you want us to jump in?

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1 What does the group feel like you are ready to
2 do? Jump? John is ready to jump. How about the left side?
3 We're kind of in the dark. Looks like they are anxious.
4 Okay.

5 MR. JONES: Is a written quality management
6 program, which is common to all these, necessary first of all?
7 Do we all agree that you need a written QMP?

8 CHAIRPERSON STITT: I think we were told we had
9 no choice. So we can all agree on that.

10 Jeffrey, you are wide awake. Go ahead, take it.

11 DR. WILLIAMSON: Why are you calling it a quality
12 management program? I mean what is the purpose of it from
13 your perspective? What is the sort of bottom line? I mean
14 I'll tell you what I think yours is. I think it's to sort of
15 regulate the accuracy of treatment delivery relative to the
16 physician's prescription. That is what you mean to go in this
17 quality management program, isn't it?

18 MR. JONES: Right. What the physician
19 prescribed.

20 MS. HANEY: And as far as the term quality
21 management program, I think we have the flexibility of
22 changing the name. We would of course have to justify the
23 name change and go into that, but for the sake of the short
24 time frame that we were dealing with, we didn't want to get

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1 into let's call it quality something something else. It was
2 easier just to work with this term.

3 DR. WILLIAMSON: I guess it is easier for me to
4 like participate in a discussion if I sort of understand what
5 it is about. I guess we all agree it's about regulation of
6 quality or accuracy of treatment from a technical point of
7 view.

8 CHAIRPERSON STITT: Regulation of what? Quality
9 or accuracy?

10 DR. WILLIAMSON: Technical quality and accuracy.

11 CHAIRPERSON STITT: I don't think we have time to
12 talk about the name change, but I do agree that quality
13 management, I mean it's invoking all of the business theory of
14 CQI and a whole bunch of things that fall within that. This
15 is not a quality management program in the sense that probably
16 anybody in business would use it. So when you have time to
17 talk about name changes, I think that it would be appropriate
18 to change it to what it is, which is regulating the doses that
19 physicians prescribe.

20 So now that we have the name discussed, let's
21 talk about the content. Yes?

22 DR. WILLIAMSON: I could just make a sort of
23 procedural suggestion to --

24 CHAIRPERSON STITT: We're open to most anything.

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1 DR. WILLIAMSON: I think in any kind of a sort of
2 a regulatory package focusing on accuracy of treatment, it
3 probably would be helpful maybe if we focused on part A, which
4 is common to all these alternatives and make suggestions
5 whether we think those are good objectives or not.

6 CHAIRPERSON STITT: But A actually changes, as
7 Cathy pointed out. A is only A in alternative one, which is
8 status quo. It is different in the other ones.

9 MEMBER SWANSON: Can we make comments on the
10 general things, the general categories of requirements. For
11 example --

12 CHAIRPERSON STITT: Start there.

13 MEMBER SWANSON: We have no choice. We are going
14 to maintain a QMP. I don't think we need audits. I frankly
15 think we probably need to retain written directives and
16 records of administered doses. I don't want to submit a QMP
17 modification to the NRC, and I don't want a requirement to
18 record reportable events. I mean that's the way we look at
19 it.

20 MR. JONES: Let's start with the audits, the
21 internal reviews. You feel that they are not necessary to be
22 a regulatory requirement?

23 MEMBER SWANSON: I don't think they are necessary
24 to be a regulatory requirement. Fundamentally, at our
25 institution, I think most institutions, when we have an event,

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1 we do look into it, we do follow up on it as per the
2 requirements.

3 I am not sure what the purpose of the audit
4 function is to begin with. All of those things are reported
5 to our radiation safety office. They are maintaining an
6 ongoing audit of us at all times. I can never really
7 understand what the purpose of that audit function was to
8 begin with.

9 MR. JONES: You are saying for your facility
10 that's standard procedure to do that, in absence of a
11 regulation.

12 MEMBER SWANSON: I think it's going to be
13 standard anywhere. I mean I can't imagine a facility that
14 we're not going to report these things to a radiation safety
15 office as part of their policies, standard policies and
16 procedures that are out there. Or if it doesn't have a
17 radiation safety office, if you are a licensee, the licensee
18 is going to be -- I mean the burden falls on that individual
19 anyway. So they are going to be notified of those events. I
20 mean I think that is standard practice that those things are
21 going to be reported to the radiation officer through the
22 licensee.

23 MR. JONES: So you are saying it's being done now
24 under voluntary compliance?

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1 CHAIRPERSON STITT: Let's hear from some other
2 institutions. Jeffrey, and then Ruth?

3 DR. WILLIAMSON: Well, at Washington University
4 in the brachy therapy program of therapeutic
5 radiopharmaceutical program, we have a very careful
6 implementation of the NRC audit requirements, ever since the
7 rule was implemented. In my experience of having spent a lot
8 of time on these audits, it has not turned up one incident of
9 clinical significance. What it has turned up is simply
10 incomplete paperwork, maybe that we have had to address, but
11 there has not been one incident I can recall where it has
12 contributed to the quality or improvement of one single
13 radiation oncology patient's treatment.

14 So I consider it as sort of a purposeless
15 requirement. It doesn't do anything. It's not the primary
16 mechanism by which we catch errors. It is an unrealistic look
17 at how brachy therapy I think is practiced, to think that you
18 are going to find something with a very high likelihood from
19 this method.

20 The way one avoids errors and detects them is by
21 having a very carefully designed, perspective designed and
22 executed treatment delivery process with a lot of checks along
23 the way that monitor the different actions that happen, not
24 going over a bunch of paperwork, because there's just nothing
25 to really be learned.

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1 We do do various sorts of voluntary record audits
2 of all kinds in our institution that are similar to the QMP.
3 They are directed at specific problems we're trying to solve.
4 If it has come to our attention we have a certain problem with
5 some kind of record keeping quality or accuracy, it might have
6 nothing to do with the NRC requirements, we'll undergo an
7 audit to find out what the problem is, implement a solution,
8 and then test whether it works. When we are satisfied that we
9 solved the problem, we will stop and move on and focus to some
10 other problems. So it seems it's just not a useful
11 expenditure of resources.

12 CHAIRPERSON STITT: Thank you. Ruth?

13 MS. McBURNEY: Coming from an agreement state
14 program that has not implemented the quality management rule,
15 simply because of the cons shown on option one, we felt that
16 it was a regulatory burden on the agency itself as well as a
17 regulatory burden on the licensees. I would prefer to see a
18 program that required the licensee to establish and maintain
19 some sort of quality management program and to retain the
20 written directives and records of administered doses, and then
21 depending on what happens with the definition of recordable
22 events, to have that one in.

23 So perhaps a modified option four would be the
24 preference that I would like to see.

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1 CHAIRPERSON STITT: I think we are getting
2 somewhere. Let's keep trucking. How about this line? There
3 he is. Go ahead.

4 DR. SIEGEL: I just want to reiterate what Jeff
5 said, which is I think the purpose of the audit is part of the
6 original QMP or quality management rule was based on the
7 belief that licensees would detect precursor events and would
8 self correct before they turned into real problems. I think
9 experience has shown that these audits are really not an
10 effective mechanism for finding precursor events. So I
11 reiterate what Jeff says.

12 While I have got the microphone for 30 seconds, I
13 will say that when Sam and I were playing with actual wording
14 for the entire rule as it applied to nuclear medicine, we
15 actually proposed that this section be called
16 radiopharmaceutical administration procedures. There was
17 similar language I think coined that went with brachy therapy
18 and teletherapy, so that that's a way out of calling it QM.
19 It achieves the same objective without getting confused with
20 this term that none of us really understand.

21 CHAIRPERSON STITT: Thank you, Barry. That makes
22 sense.

23 So of us who have been through JCHO and certainly
24 John probably has those regulations memorized, you have to
25 look at a whole variety of things. If you have been looking

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1 at these things, find that you have no problem with them where
2 they are not contributing to your overall quality program,
3 then those no longer have to be looked at. That is sort of
4 what I am hearing from a number of the clinicians here. We
5 have been doing this, and we have been doing this. It's not
6 helpful. It did not pick up precursor events.

7 I think Sally made those comments to us when she
8 presented the last meeting. It sounds like what I am hearing,
9 what we're saying is that there is some reason that audits can
10 be left blank under alternative.

11 Somebody over here. Naomi?

12 DR. ALZARAKI: Just another example of why the
13 audit is really just paperwork and not really useful. Most
14 departments, and I'm in nuclear medicine, really the number of
15 therapy administrations given is small. I know every single
16 therapy administration given anywhere in four hospitals that
17 I'm at at any given time. To audit that is useless to me. We
18 have been through all of these and if there has been an error
19 made, which is very very rare, particularly in a therapy, we
20 would be talking about that for years.

21 So to audit all of these administrations, we know
22 them.

23 MR. JONES: Does anyone have any experience with
24 audits? I have heard everyone say that audits are not
25 necessary, we don't need them, they are not useful.

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1 CHAIRPERSON STITT: That's what you are hearing.
2 John, you had a comment you wanted to make.

3 MR. GRAHAM: This is a procedural question.
4 Could we do a straw poll of the Committee's preference in
5 option one, two, three, and four? Then if we determine that
6 there was a fairly strong consensus towards one of the
7 actions, we could focus our discussion in that direction?

8 CHAIRPERSON STITT: Well, I actually prefer going
9 down the key items for consideration and then seeing where we
10 come up with. I think we are honing in on that, but I think
11 it makes more sense to discuss the specifics, which are the
12 key items, rather than the alternatives.

13 MR. GRAHAM: We're just going to go down this
14 list?

15 CHAIRPERSON STITT: Yes. I am ready to move from
16 audits unless there's anybody with a final cogent comment.

17 MEMBER SWANSON: I make a motion that whatever
18 you want to call this, the quality management rule, does not
19 include an audit.

20 CHAIRPERSON STITT: All right. We have had a lot
21 of discussion. Is there anybody that has something to add
22 that hasn't been brought up at this point?

23 MEMBER WAGNER: Second that.

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1 CHAIRPERSON STITT: That was a second? Let's
2 vote? Any discussion? All those in favor of the motion?
3 Those opposed?

4 All right. We're on a roll. I think we're
5 moving into this now.

6 MEMBER SWANSON: Was the count unanimous, Madam
7 Chairman?

8 MR. GRAHAM: I think everyone voted in favor.

9 CHAIRPERSON STITT: Everybody voted in favor.
10 Everybody who can vote voted in favor. Isn't that correct? I
11 didn't see any negatives.

12 MEMBER FLYNN: I did, but this doesn't mean that
13 a licensee, they can't have a voluntary audit.

14 CHAIRPERSON STITT: Absolutely.

15 MEMBER FLYNN: It doesn't have to be part of a
16 QMP, but it doesn't mean that there can't be a voluntary
17 audit.

18 CHAIRPERSON STITT: You can do anything you want
19 to voluntarily, Daniel Flynn. We're talking about federal,
20 government regulation. In the privacy of your own home, you
21 can do that.

22 I'm ready to move on, Jeffrey. What do you want?

23 DR. WILLIAMSON: I think somehow I have gotten a
24 sense we have left Sam with the impression that audits are a

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1 useless tool under any circumstances. I don't think that's
2 true.

3 MR. JONES: No. The issue is is there necessary
4 for a regulatory requirement to require an audit.

5 CHAIRPERSON STITT: All right.

6 MR. JONES: What I am getting is that no, because
7 they are being done on a voluntary basis.

8 CHAIRPERSON STITT: There we go.

9 Next. Licensees are required to retain written
10 directives and records of administered doses. Let's discuss
11 that. That appears in alternatives one, three and four.

12 Gee, why do the physicists have their hands up?
13 Lou?

14 MEMBER WAGNER: I just have one question. Going
15 back to what the philosophy of the ACMUI was, was in regarding
16 to how the NRC should act. Is this not common practice to
17 have a written directive and a record of administrative doses?
18 I mean is there really a problem out there? Is it going to
19 solve a problem by having it as a regulation? Have we
20 identified that there is a real need in terms of a problem?
21 That's just information. It's a question.

22 CHAIRPERSON STITT: Well, this is how we all
23 practice. I'm not saying that it's a requirement for any sort
24 of regulation. But if you are prescribing penicillin or gray,

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1 you write it down in one fashion or another and it is put
2 somewhere.

3 So that was your question that you sort of want
4 to leave out there for us to be thinking about.

5 MEMBER FLYNN: I was trying to answer his
6 question though.

7 CHAIRPERSON STITT: But Jeffrey had his hand up
8 first.

9 MEMBER FLYNN: Okay. Sorry.

10 DR. WILLIAMSON: I was going to try and answer
11 the question too. Hospitals spend hundreds of millions of
12 dollars every year trying to maintain the integrity of
13 records. I mean is there, going back to our statement, our
14 review of the medical policy statement, is there some problem
15 with the sort of maintenance of that practice standard or
16 adherence to that practice standard? It just seems it's not
17 necessary to make it a requirement because there is such a
18 primary emphasis of all health providing organizations.

19 MR. JONES: So you are saying this is standard
20 practice, is what you are saying.

21 CHAIRPERSON STITT: This is a standard of
22 practice, absolutely. I mean if you look at any external
23 record which is what, 95 percent of all radiation oncology, it
24 is chronicled in detail.

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1 MEMBER FLYNN: That's true most of the time, but
2 when I was in the ACR accreditation committee, I was chairman
3 of the pass/fail criteria. I looked at all the institutions,
4 which I will not name, who did not pass ACR accreditation,
5 looking for common root causes, because Dr. Hanks, who is
6 chairman of the committee and knows a lot more than I do,
7 thought that that would be useful for me to do that, and I did
8 it.

9 There were several programs which the radiation
10 oncologists insisted on giving oral directives, where we would
11 never countersign. That was one institution. Another
12 institution, the brachy therapy was so poorly documented as to
13 when it was put in and when it was taken out, that both of
14 those two institutions were not given ACR accreditation at
15 that time.

16 So it is probably not a common practice today.
17 These tend to be older practitioners, by the way, also. But I
18 think that is going to be a rare event. It probably is very
19 unusual. But of the hundred some odd programs that applied
20 for accreditation, these are two programs of about 10 that
21 didn't get it. There were good reasons.

22 CHAIRPERSON STITT: But I think you made a very
23 interesting statement in describing that story. These people
24 didn't meet accreditation standards. The standards are set up

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1 as voluntary standards by one of the national, I mean the
2 national organization in the country. So --

3 MEMBER FLYNN: But they continued to practice
4 that way. I think there's a jeopardy to patient health and
5 safety. The ACR couldn't force to do the right thing. But I
6 am sure these institutions have changed their ways and I'm
7 sure these practitioners, both of whom were quite frankly a
8 lot older than the average practitioner and had very stubborn
9 ways of looking at things, didn't feel they had to comply with
10 a certain standard of today that we all train in.

11 CHAIRPERSON STITT: Naomi and Barry?

12 DR. ALZARAKI: We are of course talking practice
13 of medicine here. Everybody is aware this is practice of
14 medicine, not radiation safety. But in terms of practice of
15 medicine, in using radionuclides unsealed sources for
16 therapeutic administrations, the dosages prescribed can vary.
17 So it is an individual patient decision frequently as to what
18 dose you are going to use for a given patient. It could be
19 100 millicuries, it could be 150, it could be 200, it could be
20 400, depending upon what we're talking about.

21 Of course all of that would be recorded in the
22 report which is dictated, but that's done after the fact.
23 Before the fact, it is either a verbal order for a particular
24 dose which is going to be different from patient to patient
25 for the same type of disease perhaps. So I think that in

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1 terms of practice of medicine, it's reasonable to say there
2 shall be a prescription written for these doses. I don't know
3 that it is the NRC's purview to write this as a requirement,
4 but I agree that in terms of practice of medicine it's
5 reasonable.

6 CHAIRPERSON STITT: Barry, you were next in the
7 line.

8 DR. SIEGEL: If you go back historically and just
9 thinking chiefly from a nuclear medicine point of view, the
10 problems that led to the QM rule being formed in the first
11 place derived often from oral instructions that were
12 misunderstood. Part of the original version of this rule was
13 really a prescriptive rule that said there should be a written
14 directive. Then everybody got upset about that and they
15 turned it into a performance based rule, which meant that you
16 had to write a program that said that there shall be a written
17 directive, which is basically the same thing.

18 There is, I think, enough evidence from past
19 experience to suggest that certain relatively high risk
20 activities warrant telling the people who are going to do them
21 in writing that they should do certain specific things, rather
22 than just letting a telephone communication or shouting down
23 the hall be the basis.

24 If you accept that premise, then the question is,
25 what level of comfort should the NRC have in knowing that you

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1 have implemented the process. One approach would be to say I
2 said I did it, therefore trust me. But that's not the way the
3 government often works. They want some record that in the
4 event there's a problem, even under a performance-based
5 approach, you have to be able to investigate to understand why
6 the problem occurred with that particular licensee.

7 As a very minimum, keeping these records in an
8 auditable form provides the NRC that level of comfort that
9 they can go into an institution and figure out what happened.

10 If you think about where these records would be
11 absent a written directive kept in nuclear medicine or
12 radiation oncology, they would be buried in the charts of lots
13 of different patients and would be exceedingly difficult to
14 audit.

15 So I would argue for retaining the written
16 directive and retaining the retention of written directives as
17 a necessary evil of keeping this rule in place.

18 CHAIRPERSON STITT: All right. Let's start down
19 here. Anybody want to -- Ruth and then Jeffrey.

20 MS. MCBURNEY: He hit on what I was going to say.
21 That although everybody here probably has written directives
22 and so forth, we are looking at minimum standards that are
23 auditable and inspectable. So this is one mechanism that the
24 NRC or an agreement state could actually see, that this part
25 of it was being done.

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1 CHAIRPERSON STITT: I am going to let Lou and --
2 everybody on there has a comment. Lou, Theresa, Jeffrey.

3 MEMBER WAGNER: I think the important thing here
4 is that there is no other regulatory agency that is overseeing
5 this type of written directive and requiring written
6 directive. I mean I guess if the FDA requires it, we write
7 prescriptions for prescription drugs, et cetera. We have that
8 kind of thing. But we don't really have that for some of the
9 radio therapy procedures. The FDA doesn't oversee that.

10 So there is no other mechanism by which we can
11 get that. In lieu of the fact that there is no other
12 mechanism, and there certainly is a potential for a major
13 problem from this, putting those two things in combination, I
14 would vote in favor of retaining item three until such time as
15 we can get a health oriented, medically oriented regulatory
16 body to take over this.

17 CHAIRPERSON STITT: I didn't think you were going
18 to let it go without a qualifier.

19 We are starting to come together on this.
20 Theresa and Jeff? Then we're going to see if somebody wants
21 to make a motion.

22 MEMBER WALKUP: As part of the medical dosimetry
23 community, I have in order to protect us, we really do need to
24 have that written directive. Otherwise, we are taking that

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1 into our own hands. We need that. We need to fill a definite
2 prescription of the doctor's orders.

3 CHAIRPERSON STITT: Jeffrey?

4 DR. WILLIAMSON: I didn't realize we were
5 debating the issue of whether a written directive should be
6 created or not as regulatory requirement versus record keeping
7 requirement that I question, whether there is any evidence we
8 need to have.

9 So I want to go on record saying I agree
10 completely with the utility of having written directives. In
11 fact, if there's one part of the quality management sort of a
12 constellation of regulations I like, it is the requirement
13 that a written directive be written and signed by the
14 attending physician. But I disagree that we need to have a
15 special federal requirement to keep the written directives and
16 treatment records in the sort of auditable form.

17 My impression is is that there is not a major
18 problem in this country with retaining those records. I
19 really can't imagine an institution writing a written
20 directive and making a treatment record and then throwing them
21 away. Occasionally through no one's particular fault, you
22 know, an occasional patient record or chart may be incomplete
23 or parts of it lost. That happens. I don't think
24 institutions should be punished for very small error rate in
25 record keeping that is bound to occur in any large institution

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1 that's trying to manage this huge amount of information
2 regarding patient treatments.

3 CHAIRPERSON STITT: In its most simplistic view,
4 if we can trust Barry, it is really retaining something that
5 we're already doing, but putting it in a location where it is
6 easy to find. Now what are the permutations of that that get
7 us into trouble?

8 John?

9 MR. GRAHAM: I am going back to the staff
10 requirement memo, that the quality management program
11 provisions should be reevaluated and revised to focus on those
12 requirements that are essential for patient safety, e.g.
13 confirming patient identity, requiring written prescriptions
14 and verifying dose.

15 Now it was presented to us that's a given. So I
16 skipped any discussion about whether this whole thing is a
17 practice of medicine and shouldn't even be a point of
18 discussion.

19 CHAIRPERSON STITT: Would you like to make a
20 motion?

21 MR. GRAHAM: We are talking about it. Now this
22 is one of the few times I disagree with Barry. I guess I am
23 being more Republican. I think if you start to set up the
24 retention of written records, it is retention that is uniquely
25 different in options one, three, and four. Option two in the

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1 language that's in our packet requires a written directive.
2 It does not require retainage. More importantly, it doesn't
3 require retaining in a specific format to facilitate federal
4 audit.

5 I think as soon as you get into retaining, you
6 are headed down a slippery slope where you beg for an outside
7 audit periodically. We have an extraordinary number of
8 complicated, potentially very dangerous procedures that are
9 performed in my hospitals every day. We have some incredible
10 records that document what is done and who ordered it, and how
11 it was performed. We don't seem to have any difficulty
12 auditing open heart surgery or neuro surgery, or the
13 administration of a very lethal drug. I don't understand why
14 these specific prescriptions are any more difficult for us to
15 review and monitor than any other medical information we're
16 currently collecting.

17 MEMBER NERP: They are currently retained. There
18 is no question that they are retained for long periods of
19 time.

20 MR. GRAHAM: For regulatory purposes.

21 MEMBER NERP: No. Your hospital retains --

22 MR. GRAHAM: Medical records have legal
23 requirements to keep them in there for seven years, minimum.

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1 CHAIRPERSON STITT: Okay. Lou, and then somebody
2 be thinking about a motion because we're going to have to go
3 one way or the other.

4 MEMBER WAGNER: Yes. That is a very important
5 point that you make, John and Jeff. The issue is whenever
6 regulatory body requires us to keep records, the regulatory
7 body should ask itself whether keeping of those records is
8 actually conducive to the protection of an individual or some
9 end goal for the stated direction or charge of what they are
10 trying to do. Or is that record being kept so that a
11 regulator can come in and go check it off easily and then
12 leave. That doesn't necessarily add to patient care.

13 Then we keep getting these burdens where we have
14 to do stuff that's not related to the patient care. It's a
15 regulatory requirement and we do it for the regulators. We
16 should be doing this stuff for the patients. It is clear that
17 the written directive is required. That is a standard of
18 practice. I agree with the idea that now they snuck in this
19 records of administered doses as an additional thing, sort of
20 like Congress always attaches things to bills and wants to get
21 them put through.

22 So in this case, I would recommend that the
23 Committee -- I would like to move that the Committee endorse
24 item three only in the first clause, the licensee be required

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1 to retain written directives, and drop the other part of that
2 sentence, and records of administered doses.

3 MEMBER NELP: Could you explain what that means?

4 MEMBER WAGNER: Simply that you have the written
5 directive. There is a written directive to be retained, be in
6 the patients' records, it will be somewhere. But you want to
7 keep a special log for auditing, which is the second part of
8 that.

9 CHAIRPERSON STITT: But we all have written
10 directives and we all have records of the doses administered.
11 That is different than -- I mean at face value, you can't, I
12 would not disagree with this but there is a different portion
13 of this that's not on the paper. It's the second part of the
14 clause that would be record keeping specifically for the
15 regulators.

16 MEMBER WAGNER: I'm sorry. But the problem --

17 CHAIRPERSON STITT: So I think we have to be
18 careful about the motion that we make because we all retain
19 written directives and records of how dose is administered.

20 MEMBER WAGNER: I agree.

21 CHAIRPERSON STITT: That is in the chart. That's
22 there for decades.

23 So how do we as a committee view the part that's
24 not on this piece of paper, but must be somewhere, which is

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1 we're keeping logs and retaining this for purposes of NRC.

2 There's something that's missing.

3 MEMBER NELP: I can respond for nuclear medicine.
4 I think it's like Naomi said. We just write it down in a book
5 every time we do it, and also put that in the patient's
6 medical record. But you can walk into my shop and I'm sure
7 yours. I can give you, if you wanted to see what we have done
8 since 1950, I can pull the books off the shelf and that's a
9 record.

10 Apparently with radioactive sources, you don't do
11 it. Ours is very simple to do and probably very commonly
12 done. But with multiple treatments or with complex treatments
13 with radioactive sources, you don't' keep a separate log entry
14 book I presume.

15 CHAIRPERSON STITT: Yes, we do.

16 MEMBER NELP: So it seems like we are doing the
17 same thing.

18 CHAIRPERSON STITT: So what is the question here
19 that we are supposed to answer?

20 MEMBER NELP: I mean you could audit my
21 experience over the last three years in a matter of -- I mean
22 I could provide you with the material in a matter of five
23 minutes.

24 CHAIRMAN STITT: Is the issue records being
25 available for inspection? There's a con under alternative two

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1 that just says -- refers to licensees retaining written
2 directives and records of administration. Thus, these records
3 would either be or not be available for inspection.

4 So I think it's really the manner in which --
5 what we're already doing for patient management is being
6 collated, collected, put in the purple NRC book. I think
7 that's the crux of the matter.

8 MEMBER GRAHAM: I would move that the Advisory
9 Committee on the Medical Use of Isotopes recommend the
10 requirement of written directives and written record of
11 administered doses, period.

12 CHAIRMAN STITT: Is there a second?

13 MEMBER SWANSON: Could you repeat that?

14 MEMBER GRAHAM: The ACMUI would recommend the
15 requirement of written directives and written records of
16 administered doses, period.

17 MEMBER WILLIAMSON: Do we need to second it to
18 discuss it?

19 CHAIRMAN STITT: Uh-huh.

20 MEMBER WILLIAMSON: Second.

21 CHAIRMAN STITT: All right, discussion?

22 Go ahead, Jeff.

23 MEMBER WILLIAMSON: Well, I thought we were
24 discussing the issue not of whether treatment records would be
25 required and written directives would be required, but whether

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1 we ought to agree or endorse a concept of having a federal law
2 requiring us to retain said records in auditable form.

3 So I would like to modify -- propose modifying
4 John's motion to add "but that we disagree that a federal
5 requirement to maintain said records of treatment and written
6 prescriptions is necessary for patient" --

7 CHAIRMAN STITT: Or you can make that a positive,
8 meaning we -- we feel that no separate record keeping
9 mechanism --

10 MEMBER WILLIAMSON: We do not feel that a federal
11 law regarding maintaining or retaining of these records is
12 necessary.

13 MEMBER NELP: Well, how about saying maybe
14 maintained in accordance with the current standards of
15 practice, is what we're saying?

16 MEMBER WILLIAMSON: Well, I don't think a federal
17 law saying we have to keep them in accordance with the
18 standards of practice is needed. They're already, I'm
19 arguing, kept probably quite well in the vast, overwhelming
20 majority of institutions.

21 CHAIRMAN STITT: I think we're all trying to say
22 the same thing. I think it's just getting the words on paper
23 correctly.

24 Naomi, you're nodding your head.

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1 DR. ALAZRAKI: Well, I was going to say the same
2 thing. As per standard of medical practice, written
3 directives for doses administered are regularly given or
4 written. A federal regulation would seem not appropriate.

5 Also, it's practice of medicine.

6 CHAIRMAN STITT: Dan?

7 MEMBER FLYNN: Does it help if it's records of
8 administered therapeutic doses? Does that help at all in
9 terms of --

10 CHAIRMAN STITT: I think we ought to watch that
11 for the time being.

12 I think the first part of the clause is probably
13 where -- your sentence works fine, but we need some qualifier
14 to indicate that we're not interested in having a regulation
15 define other log books or other modes of already duplicating
16 what we're doing once.

17 Is that one of the -- is that some of the gist of
18 what you guys are trying to say?

19 MEMBER WILLIAMSON: Well, I was trying to say the
20 ACMUI agrees that the new Part 35 should require written
21 directives and records of treatment. Okay, end of sentence.

22 Second sentence: The ACMUI does not feel that
23 patient safety requires a separate federal law requiring the
24 retaining and/or maintenance of said records in any particular
25 form to facilitate federal audits.

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1 MEMBER GRAHAM: Let me attempt a modification of
2 the motion.

3 CHAIRMAN STITT: You have been known for that, so
4 go ahead.

5 MEMBER GRAHAM: The ACMUI recommends requirement
6 of written directives and written records of administered
7 doses, but does not advocate the extraordinary retention of
8 these written directives or records beyond the normal practice
9 of medicine.

10 MEMBER NELP: Well, that's pretty sensible.

11 CHAIRMAN STITT: All right, so we're getting some
12 people nodding up and down here. Looks like it's being typed
13 up there for us.

14 We're appreciative. So far you're doing better
15 than we are.

16 MEMBER NELP: What is the legal basis for your
17 requirement, John, in your hospitals? Who tells you that you
18 have to keep your records, medical records, for seven years/

19 MEMBER GRAHAM: I believe it is state regulation,
20 but I'm not an attorney, so --

21 MEMBER NELP: I mean, somebody tells us we can't
22 throw away our x-ray records for five or seven years.

23 MEMBER GRAHAM: But I'm not sure who that person
24 is.

25 MEMBER NELP: Does anybody know?

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1 DR. SIEGEL: A starting point would just be tort
2 law. I mean, try defending a malpractice case and not having
3 any records. You'd have to at least retain records for the
4 statute of limitation related to malpractice liability.

5 DR. ALAZRAKI: Which is?

6 DR. SIEGEL: Varies from state to state.

7 CHAIRMAN STITT: Does the comment "does not" --
8 we've got the first statement that we're agreeing that we
9 write things down and we hang onto them. Does not advocate
10 retention of records. But aren't we also trying to --

11 MEMBER WILLIAMSON: Wait a second. It's not that
12 we're not advocating retention of records, it's that we're not
13 advocating a federal requirement to retain the records.

14 CHAIRMAN STITT: Or to have a separate set of
15 records.

16 MEMBER GRAHAM: The word missing was the
17 extraordinary retention of records beyond the normal practice
18 of medicine.

19 MEMBER SWANSON: But the issue is, I think, what
20 we're not advocating is that that has to be addressed in
21 regulatory space. Okay, the retention of records does not
22 need to be addressed in regulatory space. It's standard of
23 practice to retain these records, period.

24 We don't need a regulation to tell us to do that,
25 okay?

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1 CHAIRMAN STITT: So you could say does not
2 advocate federal regulations.

3 MEMBER SWANSON: Or you could say ACMUI
4 recommends a requirement that written directives and records
5 of administered doses be maintained, but does not feel that
6 this needs to be addressed in regulatory space, period.

7 MEMBER NELP: Well, he said in accordance with
8 current medical practice.

9 MEMBER GRAHAM: Dennis, I've got a feeling of the
10 committee that they wanted to have something that clarified
11 that we're saying you shouldn't have a retainage reg. That's
12 the only reason we added that.

13 MEMBER WILLIAMSON: That's what I've been trying
14 to say.

15 CHAIRMAN STITT: Well, are we saying that in our
16 words that we have up on the screen?

17 Jeff, go ahead.

18 MEMBER WILLIAMSON: I don't like the phrase
19 extraordinary retention. I would prefer we put something
20 clearer that says --

21 CHAIRMAN STITT: Yes.

22 MEMBER WILLIAMSON: -- the NRC does not advocate
23 a Part 35 requirement to retain records beyond, you know --
24 just period, to retain records period. And we could add as a
25 comment of an explanation that we feel the standards of

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1 current practice adequately address the problem of retaining
2 records.

3 CHAIRMAN STITT: Were you making some --

4 MEMBER SWANSON: I actually think we're all
5 saying the same thing.

6 CHAIRMAN STITT: But we're not putting it in
7 words very well.

8 MEMBER SWANSON: Well, are you getting the
9 message?

10 DR. ALAZRAKI: Well, I think Jeffrey said it in
11 words pretty well.

12 CHAIRMAN STITT: All right, let's see if it's up
13 there. ACMUI recommends requirement and administered doses,
14 but does not advocate a Part 35 requirement to retain records.

15 MEMBER WILLIAMSON: To retain records.

16 MEMBER NELP: Beyond the normal practice.

17 MEMBER WILLIAMSON: No, that's then saying that
18 they'll be a Part 35 requirement that says we have to follow
19 normal medical practice.

20 CHAIRMAN STITT: Right.

21 MEMBER WILLIAMSON: I would prefer to add a
22 sentence saying that we -- the ACMUI feels that standards of
23 practice in adherence to said standards of practice adequately
24 addresses the problem of maintaining patient records.

25 CHAIRMAN STITT: Theresa?

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1 MEMBER WILLIAMSON: Okay, yes; the ACMUI believes
2 that current, voluntary standards of practice and acceptance
3 of such standards of practice adequately addresses the problem
4 of maintaining patient treatment records, period.

5 CHAIRMAN STITT: Except those aren't voluntary.
6 We're doing that because we're required to by various tort
7 law.

8 MEMBER WILLIAMSON: That's irrelevant. We're not
9 talking about other agencies' laws. We're only talking about
10 Part 35.

11 CHAIRMAN STITT: I'm not sure I agree with that.

12 MR. JONES: Yeah, but if you removed it from the
13 regulations in Part 35 -- if you remove this requirement, then
14 your reason to remove it is because of --

15 MEMBER WILLIAMSON: It's already being done.

16 MR. JONES: Because it's required by --

17 CHAIRMAN STITT: You name it.

18 MEMBER WILLIAMSON: Not that it's being
19 necessarily required by anybody, but that we view it as such
20 an essential component of practicing medicine that we all do
21 it. We focus a lot of energy on it.

22 MEMBER NELP: See, I think you're wrong. I bet
23 you it is required by somebody, but --

24 CHAIRMAN STITT: It is required.

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1 MEMBER WILLIAMSON: And it may be required in
2 some other settings for various --

3 CHAIRMAN STITT: Theresa, you've had your hand up
4 three times.

5 MEMBER WALKUP: Yeah, I just -- maybe I need to
6 be clarified on this, and we may touch it when we get to the
7 radiation safety committee. But I know in our radiation
8 safety committee, we have to state we had four brachytherapy
9 implants and two radioiodine doses.

10 There were no misadministrations, nothing. So a
11 log will -- I mean, unless that changes in the radiation
12 safety meeting, then a log will still be kept. I mean, --

13 CHAIRMAN STITT: Well, you can do institutionally
14 what you what. We're trying --

15 MEMBER WALKUP: Is that just for institution?

16 CHAIRMAN STITT: Now your institution may have
17 set that up in response to Part 35. That's pretty common.

18 MEMBER WALKUP: Okay, that's what I didn't know.
19 Okay.

20 CHAIRMAN STITT: We've got all sorts of things
21 and still don't have a good -- we have a sense of what we're
22 trying to say, but I don't know that we're stating it very
23 well.

24 MEMBER FLYNN: I have another version. Can I try
25 another version?

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1 CHAIRMAN STITT: You can try most anything, Dan.

2 MEMBER FLYNN: All right. Well, if you say the
3 licensee -- forgive me this part. The licensee is required to
4 continue to retain written directives and records of
5 administered doses in accordance with existing medical
6 practice.

7 CHAIRMAN STITT: Do we want to add the clause
8 though that says we don't need additional federal regulation?
9 I think a positive statement -- I mean, a statement of what we
10 don't need --

11 MEMBER FLYNN: It's simply saying that we're
12 continuing to retain records in accordance with what we're
13 doing already in current medical practice.

14 CHAIRMAN STITT: That's still -- so far we agree
15 pretty well on --

16 MEMBER FLYNN: They're not telling us to do it.
17 We're doing it because it's -- we're doing it because of
18 current medical practice. And we've already been doing it,
19 and we'll continue doing it because of current medical
20 practice.

21 CHAIRMAN STITT: We all are doing well on the
22 first part. It's the second part we aren't doing well. I
23 think what you're saying is essentially what we've already put
24 down there.

25 John, do you have it ready?

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1 MEMBER GRAHAM: Let's see. This began -- I hate
2 whereas's, but -- Jeffrey, whereas, the ACMUI does not
3 recommend a federal regulation for the retention of records,
4 and whereas, medical records are retained, under existing
5 regulations within the practice of medicine, therefore the
6 ACMUI recommends that directives and written records of
7 administration, period.

8 MEMBER NELP: You get wrapped around the axle.

9 MEMBER GRAHAM: Back to my original motion.

10 CHAIRMAN STITT: Just phrased a little
11 differently.

12 Go ahead, Wil.

13 MEMBER NELP: It seems to me the only thing they
14 want us to do is keep the records for three years, which you
15 already do, and keep them in a form that somebody can come in
16 and make an audit, which we already do. So we're making a big
17 issue out of this.

18 MEMBER GRAHAM: But we just voted that we don't
19 recommend audits, so I'm trying to write the next motion
20 moving us in that direction.

21 MEMBER NELP: I'm not sure we need to make all
22 these motions, but give them a considered opinion and let them
23 deal with it.

24 CHAIRMAN STITT: Well, we could stop with what
25 we've got, which is just that very first phrase, that we feel

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1 we should retain records of directives and administered doses.

2

3 One more round of comment.

4 I don't even know what motion was seconded.

5 MEMBER NELP: Well, I don't even think we need a
6 motion.

7 CHAIRMAN STITT: Well, we have to put something
8 pretty strong --

9 MR. JONES: I have one question.

10 CHAIRMAN STITT: Yes.

11 MR. JONES: The "because". You don't needs
12 records because, and you had said that because of existing
13 regulations in the practice of medicine, it's already being
14 done. Okay, what requirements or regulations are you
15 referring to?

16 MEMBER GRAHAM: I'm not referring to a specific
17 regulation. I'm saying that whereas, medical records are
18 retained under existing regulations within the practice of
19 medicine. That's a statement of fact I'm real comfortable
20 making.

21 MR. JONES: Okay, I'm just asking what
22 regulations. You know, what existing regulations.

23 CHAIRMAN STITT: JCHO, your own hospital -- there
24 are lots of different regulations.

25 MEMBER GRAHAM: Requirements.

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1 CHAIRMAN STITT: Now we could simply vote on what
2 we're not having trouble with, license -- we agree to retain
3 written directives and records of doses -- vote on that and
4 then just leave commentary.

5 MEMBER GRAHAM: The motion on the table -- the
6 motion that was supported that's on the floor was that the
7 ACMUI recommends written directives and written records of
8 administration, period. That's the motion. There's no -- the
9 word retain is not in that motion.

10 CHAIRMAN STITT: Okay. And that was seconded by
11 somebody.

12 MEMBER GRAHAM: And that was seconded by Jeffrey.

13 CHAIRMAN STITT: One last round of discussion and
14 we're going to vote on that.

15 Jeff.

16 MEMBER WILLIAMSON: Okay, well I would agree with
17 John's most recent pseudo-motion. I guess that's not really
18 the motion. The one with the whereas's. With the one
19 addition that instead of whereas medical records are already
20 retained because of existing regulations, I would propose to
21 replace existing regulations and adherence to voluntary
22 standards of medical practice.

23 And then I would find that an acceptable
24 substitution for the initial, official motion that is on the
25 floor.

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1 CHAIRMAN STITT: Let's have a few more comments
2 while he's rethinking that and we'll decide what to do with
3 the motion we have and then the pseudo motion.

4 Lou.

5 MEMBER WAGNER: Let me get the gist of this. I
6 think all we're saying is the following:

7 A written directive and a record of the
8 administered dose must exist, not in any special form, but in
9 the form consistent with the practice of the facility.

10 CHAIRMAN STITT: That is the motion that's on the
11 table.

12 MEMBER WAGNER: That's it. That's the gist of
13 it, is it not?

14 CHAIRMAN STITT: That's right.

15 MEMBER WAGNER: That's it? Thank you.

16 CHAIRMAN STITT: Dennis and then --

17 MEMBER SWANSON: All I'm suggesting is that
18 motion needs to be expanded to give specific statement to the
19 NRC that we do not need that requirement to be put in a Part
20 35 regulation.

21 CHAIRMAN STITT: Why don't we vote on the motion
22 we've got. We can have a second motion. I think that's the
23 quickest way to do things. Because none of us are disagreeing
24 with motion number one.

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1 I'd like to call for the vote on the motion which
2 is one statement, which is -- do you want to read that back?

3 MEMBER GRAHAM: The ACMUI recommends written
4 directives and written records of administration.

5 CHAIRMAN STITT: All right, let's vote.

6 All those -- that was seconded, but you go ahead
7 and third it.

8 Vote. Everybody in favor? Those opposed?

9 All right, is there any further discussion or any
10 further motions?

11 MEMBER SWANSON: I make a motion that we say the
12 retention of written records does not need to be addressed in
13 the Part 35 regulation.

14 CHAIRMAN STITT: Would you like to second that?

15 MEMBER GRAHAM: Second.

16 CHAIRMAN STITT: Any further discussion? We've
17 really discussed this. Unless you've got something new to say
18 -- everybody in favor of that motion?

19 Oh, we're doing very well.

20 Everybody opposed?

21 What did we just say? We're still on
22 alternative two. Did we already -- all right, we have two
23 more to go, but Cathy says we've really kind of been through
24 this discussion, right?

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1 Licensee required to submit QMP modifications to
2 NRC.

3 What, John?

4 MEMBER GRAHAM: I move that the ACMUI recommends
5 that a licensee is not required to submit QMP modifications to
6 the NRC, period.

7 CHAIRMAN STITT: Lou, do you want to disagree
8 with that?

9 MEMBER WAGNER: No.

10 CHAIRMAN STITT: You wanted to second it?

11 MEMBER WAGNER: Absolutely.

12 CHAIRMAN STITT: I'm hassling you.

13 We will have limited discussion.

14 MEMBER WAGNER: Yes.

15 CHAIRMAN STITT: Yes, Lou was happy to second
16 that.

17 CHAIRMAN STITT: Dennis.

18 MEMBER SWANSON: I'm ready to raise my hand.

19 CHAIRMAN STITT: Okay, Dennis is excited.

20 Jeffrey, do you have a comment?

21 MEMBER WILLIAMSON: No, I was just seconding the
22 motion.

23 CHAIRMAN STITT: Oh, everybody wants to vote?

24 Everybody in favor of that motion?

25 Don't you wish you could vote, Naomi?

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1 Those opposed? Okay.

2 She's voting with her smile.

3 Licensee is required to maintain recordable
4 events. I'm going to jump in to say recordable events is
5 going to be discussed in some detail.

6 MS. HANEY: I would say you might want to table
7 that one until tomorrow.

8 CHAIRMAN STITT: Well, we're good at that. Can I
9 just say we're not going to discuss it or do we have to have -
10 -

11 MS. HANEY: No, you can just put it off until
12 tomorrow.

13 CHAIRMAN STITT: I'm just going to put that off
14 until tomorrow.

15 Jeff, you have a comment?

16 MEMBER WILLIAMSON: Well, it's a request.

17 Can we discuss Section A, what should be the
18 goals of the QMP or whatever we're going to -- whatever it's
19 going to be called? I think it would be appropriate to focus
20 some attention on --

21 CHAIRMAN STITT: Well, that's where he tried to
22 start us, and we actually balked. I think it would be very
23 appropriate to --

24 MEMBER WILLIAMSON: I think we've dealt with
25 everything else.

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1 CHAIRMAN STITT: Yes, I think that would be very
2 appropriate now that we're a little more grounded and
3 centered.

4 Yes, sir.

5 MEMBER GRAHAM: Just by a clarification,
6 regardless of how the discussion on a recordable event or the
7 definition of a recordable event turned out tomorrow, I'd be
8 curious in the sense of the committee regarding a
9 recommendation that would not require licensees to maintain
10 recordable events.

11 To facilitate discussion, I would move that the
12 ACMUI recommend that licensees are not required to maintain
13 recordable events, period.

14 MEMBER WAGNER: I'll second that.

15 CHAIRMAN STITT: Okay, it's been seconded.

16 So John has exercised his power of ignoring my
17 refusal -- no, I mean, what you're saying is, regardless of
18 how we discuss recordable event, no matter what answer we
19 would come up with for recordable event, we can make a motion
20 and discuss the issue?

21 MEMBER GRAHAM: That the maintenance of logs,
22 records that tie to recordable events is not a recommendation.

23 CHAIRMAN STITT: Well, it certainly goes along
24 with the discussion we've already been having.

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1 MEMBER GRAHAM: And that's based on three years
2 of listening to this group discuss this topic.

3 CHAIRMAN STITT: People want to comment?

4 We've had a motion that's been seconded. Time
5 for discussion.

6 DR. SIEGEL: I'm having a bit of a problem here.
7 Thinking NRC for the moment. Think out of the box and think
8 real performance-based, which is the licensee shall have a
9 program intended to ensure that authorized users -- or that
10 byproduct material is administered in accordance with the
11 directions of the authorized user.

12 The components of the program should be a written
13 directive, a record of the dose, period. Or patient
14 identification, and we could add whatever else we still think
15 we want to include.

16 In a performance-based rule, as long as nothing
17 is happening, it probably never gets inspected. It's just the
18 licensee continues to practice well and things go along just
19 hunky-dory. When there's a problem, the NRC is going to feel
20 a need to come in and try to understand the problem and
21 determine whether corrective action is necessary with that
22 particular licensee.

23 In the absence of certain specific records that
24 are kept to help the NRC do its job, even though we may not
25 want them to do the job, the NRC has a problem because they

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1 can't just walk into the hospital record room and say we're
2 here to go through your records.

3 I think there are confidentiality issues that
4 would prevent them from just walking into the average hospital
5 record room and starting to go through randomly selected
6 patient charts to see if there's been any misadministrations,
7 or whatever term you like, of byproduct material.

8 So keeping in some minimal record retention
9 requirements provides some level of comfort for the NRC and
10 provides some -- an insurance policy for us that we're not
11 opening all of our records open for NRC purview.

12 I throw that out for your thinking.

13 CHAIRMAN STITT: In talking -- if we have to
14 report whatever a recordable event is or will be, the NRC
15 would have all those records. And Dawn said they're going to
16 have a wonderful computer system?

17 DR. SIEGEL: Well, they wouldn't have the source
18 records though. I mean, they wouldn't have the source
19 documents. They just have some notification of an event, not
20 the original source documents that show why the event occurred
21 and who did what at what point in time.

22 CHAIRMAN STITT: That's not necessarily true.

23 DR. SIEGEL: I mean, that's what's true now.

24 Right now, you submit a summary description of
25 misadministration. It names a few people, but it doesn't name

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1 the patient, obviously; and it provides a summary, but it
2 doesn't -- you don't send in a photocopy of the written
3 directive as part of the misadministration report.

4 MEMBER FLYNN: After looking at about 60
5 misadministrations as a consultant, Barry is right. And I end
6 up asking the licensee for more records. Now, two-thirds of
7 the time, the summary provided to the NRC is correct and
8 nothing much added.

9 But about one-third of the time, additional
10 things that the licensee wasn't aware of but didn't understand
11 happened that made a dramatic change as to how the event is
12 subsequently interpreted. So I think I agree with Barry.

13 CHAIRMAN STITT: Okay, Dennis, you were
14 commenting?

15 MEMBER SWANSON: That last key item is -- it
16 refers to requirement to maintain recordable events. I
17 actually think you could address your concern if you went back
18 to option two and item number four under there where it says
19 you're going to have a quality management program and it says
20 that any unintended deviation from the written directive is
21 identified and evaluated and appropriate action taken.

22 You could do a simple modification of that
23 statement that says that any intended deviation from the
24 written directive is identified, documented, and evaluated,
25 and appropriate action taken.

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1 That way, you have the requirement that there's
2 documentation of this, but we don't have to get into a rule
3 that addresses maintaining these records, which is what we
4 just discussed with the other written records.

5 DR. SIEGEL: And I guess I'm still worried that
6 there's going -- when the lawyers sit down and look at this
7 recommendation, they're going to say but we still have a
8 problem in terms of what degree of licensee we have to just
9 start rummaging through all of the records of a hospital.

10 Whereas, a well defined set of records make it in
11 part clear that these are the records that the NRC has free
12 reign to look at as part of any inspections that it conducts.
13 Absent that, I think that there's going to be some collisions,
14 and I just -- I'm not sure I know exactly what the collision
15 points are.

16 But, you know, patient confidentiality laws and a
17 variety of other things may create problems for the Agency
18 that would force them to reject this suggestion.

19 CHAIRMAN STITT: Theresa, then Jeff.

20 MEMBER WALKUP: Could not just a log be kept of
21 those patients and that's it? And if they want to pull it,
22 then at least you'll be able to go I need John Doe and Jane
23 Doe and -- and that way, you don't have to keep this separate
24 written directive and a separate -- because it should be in
25 the chart and somehow just put that into it.

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1 CHAIRMAN STITT: Certainly could be.

2 Jeff.

3 MEMBER WILLIAMSON: Well, I wanted to respond to
4 Barry's premise, which is that the NRC cannot request access
5 to medical records -- in radiation oncology do. They say show
6 me the list of patient records that you audited.

7 Okay, now bring me four patient records in the
8 same modality that you didn't audit, I want to examine them.
9 And we go to our list and we find them. So in -- two points
10 are clear to me. One, certainly I think they do have the
11 right under current laws, evidently, to just simply go in and
12 request a class of records.

13 And it's obligation of the institution to be able
14 to respond to that. And if they can't, they're in trouble. I
15 don't know why there needs to be a federal law.

16 In addition, second -- let me finish, please.
17 Let me finish, please.

18 Secondly, in radiation oncology, we keep no
19 special parallel record for the NRC. We don't. We simply
20 will make available to them the radiation oncology chart with
21 -- which has the brachytherapy and radiopharmaceutical
22 documentation in it.

23 CHAIRMAN STITT: We have a comment from the
24 general public.

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1 MS. ROTHSCHILD: I just wanted to note as far as
2 the NRC authority to go into a hospital and look at patient
3 records, if this is an NRC licensee, there's specific
4 authority in the Atomic Energy Act, Section 161(c), for the
5 NRC to obtain such information as it deems necessary to
6 perform its functions.

7 Also, as far as patient confidentiality, I don't
8 want to -- that may come up more tomorrow, but I just wanted
9 to note that our understanding of the applicable -- I guess
10 there are ethical standards of the American Medical
11 Association -- are that a physician shall safeguard patient
12 confidences within the constraints of the law.

13 And that a duly promulgated federal regulation
14 would be -- you know, for that purpose, would be considered a
15 law.

16 Thank you.

17 CHAIRMAN STITT: Just restate the motion that's
18 on the floor and has been seconded.

19 MEMBER GRAHAM: That the ACMUI recommend that
20 licensees are not required to maintain recordable events.

21 CHAIRMAN STITT: Okay.

22 Wil?

23 MEMBER NELP: You know, let's go with it.
24 They're asking -- and we say that recordable events,

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1 misadministrations, really don't happen that often. We always
2 -- we keep the records. And I agree with Barry.

3 If I were in the role of the NRC, I'd want to be
4 able to go to some of these institutions that aren't like the
5 ones we represent perhaps where they need some help and you
6 can go in and review their records.

7 And it's a very small thing to ask. And it's not
8 pervasive at all as far as I'm concerned. And I think we're
9 barking up the wrong tree. And I'd like you to withdraw your
10 motion and let's get on with better business because this is a
11 very simple requirement.

12 CHAIRMAN STITT: Well, we can vote on the motion
13 and get a --

14 MEMBER NELP: Well, we could do that.

15 CHAIRMAN STITT: Other comments? I mean, we've
16 heard some interesting commentary on both sides.

17 Jeff.

18 MEMBER WILLIAMSON: Well, with the recordable
19 event reports, I suppose more generally thinking of them as
20 kind of like internal quality assurance event reports and
21 documentation of what you've done and so forth, it's not clear
22 how I would vote on this.

23 It seems to me I would need to know one, what is
24 the purpose of the recordable event in the first place?

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1 Secondly, within what sort of a regulation context does the
2 requirement to have these appear?

3 So, for example, if there were a requirement that
4 you have a program where you do have to document them in the
5 first place, then I would think that an additional requirement
6 to retain a record in some special way would be redundant and
7 unnecessary because I don't imagine, you know, for the same
8 reason hospitals don't throw away intentionally patient
9 records, they wouldn't throw away deliberations of their own
10 quality assurance actions.

11 CHAIRMAN STITT: Well, it's possible then --

12 MEMBER WILLIAMSON: So I can't say I would vote
13 for this motion without some reservations and qualifications.

14 CHAIRMAN STITT: It's possible though -- what
15 you're saying is you need to see more of the discussion here -
16 - what the discussion is going to be tomorrow, which means we
17 could --

18 MEMBER GRAHAM: But I'll pull the motion. Having
19 been duly chastised for --

20 CHAIRMAN STITT: Can you do that?

21 MEMBER GRAHAM: Yes.

22 CHAIRMAN STITT: Right, for speaking out of turn.

23 MEMBER GRAHAM: -- trying to usurp the wisdom of
24 the Chair in deferring it to tomorrow, I withdraw the motion.

25 CHAIRMAN STITT: I think that's wise.

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1 (Laughter.)

2 Now this will be heard up again. I think we can
3 all agree to that.

4 Do you -- does the group want to -- we're doing a
5 good job, particularly time-wise, and we're getting -- do you
6 want to walk through ABCD --

7 Okay, let's look at the rule. We have -- under
8 the alternatives chart that we started with, we are looking at
9 alternative two, except for the final licensee required to
10 maintain recordable events will be discussed later.

11 We need to look at part (a) under alternative
12 two.

13 MR. JONES: Dr. Stitt, I have one question.

14 The motions that you made essentially changing
15 the current requirements, okay, and we have two or three up
16 here. One about modification of QMP, written directives.
17 Okay, could you give me a little more on what you think -- if
18 we make this regulatory change that's been recommended, what's
19 the rationale for that change?

20 CHAIRMAN STITT: I think you've been hearing it
21 all along.

22 MEMBER GRAHAM: I think we're down to a couple of
23 options, aren't we, at this point?

24 MS. HANEY: Well, based on what I've heard,
25 you've narrowed it down to alternative two.

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1 MEMBER GRAHAM: And I think the committee --
2 there are representatives on the other side of the table, I
3 think, that can be much more eloquent discussing the
4 advantages of how a written program would be developed because
5 we've been told we have to have one.

6 MS. HANEY: No, what I -- going by what the
7 motions have been so far as far as what you would want in a QM
8 program, and if you're looking at this matrix, the only thing
9 that at least I heard the committee was in favor of having is
10 just the requirement to have a QMP.

11 And again, that was almost -- that's a given that
12 we have to have that.

13 CHAIRMAN STITT: All right, the only one -- we
14 also voted that you need to retain directives and doses, but
15 we also -- no, but we didn't want to be regulated to do that,
16 so I think -- the purest approach is that we're looking at
17 alternative two because we qualified point number three.

18 MEMBER WILLIAMSON: Would it help if we reviewed
19 page six, which is the draft language, of the --

20 CHAIRMAN STITT: That's what I was trying to get
21 us to do.

22 MEMBER WILLIAMSON: Yes, that's what I propose
23 that we do.

24 MS. HANEY: And I can tell you the difference
25 between -- really between page six and the current rule other

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1 than we dropped off everything but just item (a). The
2 differences are in (a)(1) where we said that the written
3 directive is based on a dose of 50 rem as compared to
4 specifying what it was for each different type of modality.

5 Fifty rem came from Part 20, and that is -- you
6 know, 50 was not necessarily a magic number, so that -- we
7 just chose a dose number to get in there.

8 Item two is the same as in the current rule.
9 Item three out of the current rule is gone -- was deleted.
10 That is the final plans of treatment and related calculations
11 for brachytherapy, teletherapy and gamma stereotactic
12 radiosurgery are in accordance with the respective written
13 directive.

14 We did not feel that was necessary.

15 Item three is the same as it was before. And
16 item four is the same. So we went from a five objective rule
17 down to a four objective with some minor changes.

18 MEMBER SWANSON: Are we open for comments?

19 CHAIRMAN STITT: Yes.

20 MEMBER SWANSON: Let me comment that I think the
21 approach taken in item one is a very good approach and much
22 better than the previous approach in that it allows
23 flexibility for new technologies and it's a lot less confusing
24 than trying to remember 30 microcuries versus something else.

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1 Okay, so, you know, I think that's very good. My
2 only recommendation for change would be I think one I referred
3 to previously, that in number four, it be changed to that any
4 unintended deviation from the written directive is identified,
5 documented, and evaluated, and appropriate action taken.

6 CHAIRMAN STITT: You know, it's interesting
7 because four comes back to the part that we're sort of
8 tabling. I mean, that keeps resurfacing whether we do or
9 don't want to maintain recordable events. Through this
10 mechanism, it has to be done, which makes it a little silly
11 for us to vote against it when we relook at John's withdrawn
12 amendment.

13 DR. ALAZRAKI: Well, the magnitude of the
14 unintended deviation is not defined here.

15 CHAIRMAN STITT: That's true.

16 DR. ALAZRAKI: And so that needs to be defined.
17 It may become -- that would become a recordable event if it --

18 CHAIRMAN STITT: And any unintended deviation is
19 wide open.

20 DR. ALAZRAKI: Right.

21 CHAIRMAN STITT: That's --

22 DR. ALAZRAKI: It should really be defined here.
23 Any unintended deviation which qualifies as a recordable
24 event.

25 CHAIRMAN STITT: Barry.

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1 DR. SIEGEL: The wording, if you read it
2 carefully, it requires an audit that any unintended deviation
3 from the written directive is identified. How can you
4 identify if you don't look for it?

5 CHAIRMAN STITT: If I don't find --

6 DR. SIEGEL: You are building in an audit whether
7 you like it or not.

8 MEMBER SWANSON: Fundamentally what happens then
9 is you would take it out and you'd say any unintended
10 deviation is documented. I think the way it really happens is
11 --

12 DR. SIEGEL: Evaluate it.

13 MEMBER SWANSON: Right, and evaluate it. Okay,
14 it's documented and evaluated, and appropriate action taken.
15 I would agree.

16 CHAIRMAN STITT: That any unintended deviation?

17 MEMBER SWANSON: Well, we have to define that.

18 MEMBER FLYNN: That's certainly not true. In
19 radiation oncology, the physicist -- different physicist,
20 different dosimetrists check the charts every week.

21 And one physicist -- this happens all throughout
22 the country -- will find out that an error was made on a
23 previous calculation the previous week, and then they will --
24 this happens in every single radiation facility in the country
25 every year.

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1 And then the doses are adjusted appropriately.
2 It's usually not a recordable event. And the patient gets the
3 right treatment when they finish the treatment. They get
4 their treatment adjusted. They might have been five percent
5 low on Wednesday. They might get five -- two and a half
6 percent higher on Thursday and Friday.

7 So this happens all the time.

8 CHAIRMAN STITT: Well, but as Barry says,
9 depending on who is reading it, this could be -- you know, if
10 somebody from the NRC staff is reading it, it looks like audit
11 to them. To you, it looks like the physicist needs to repeat
12 the dose.

13 MEMBER FLYNN: Patient pulls the source out five
14 hours early. You know, it's an unintended deviation. You
15 handle it. You --

16 CHAIRMAN STITT: Well, it's a good description of
17 how we can get into trouble with our words.

18 A lot of comments.

19 Naomi.

20 DR. ALAZRAKI: Yeah, well how do we -- again, in
21 nuclear medicine, how do we identify that there's been a --
22 what's been called a misadministration? It may have been the
23 wrong patient who got the dose or the right patient got the
24 wrong material. I mean, how do we identify these? Not
25 through audit necessarily.

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1 It's usually identified usually after the event,
2 but it's identified because in going through the inventory of
3 radiopharmaceuticals or in however. But it can be identified
4 on the floor if it's an inpatient by someone in the hospital
5 who realizes the wrong patient went down.

6 CHAIRMAN STITT: Barry.

7 DR. SIEGEL: The problem word here is the word
8 identified. It says that you have to have a mechanism for
9 identifying. It doesn't say once you've identified it,
10 evaluate it, figure out what went wrong and institute
11 corrective action.

12 As long as you leave the word -- those words, is
13 identified, in there, you're implying that you have to have a
14 mechanism to find these things, and that's an audit. I mean,
15 you have a physicist check the chart, and that finds errors
16 and that's great.

17 But how do you know the physicist didn't make
18 errors? You didn't identify all of them. It says any
19 unintended deviation is identified. And in the current rule,
20 the way that is turned into reality is by way of an audit.

21 So if you are throwing out the audit requirement,
22 you need to change item four.

23 CHAIRMAN STITT: Well, you could change --
24 identify the documenter. That's a different -- I mean, that's
25 what the physicist is actually doing. They go through all

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1 these daily, daily, daily doses. They document gee, they
2 didn't carry their one, therefore this number's slightly off.

3 That's a very different sort of thing.

4 MEMBER FLYNN: Can I make a motion that we remove
5 the two words, is identified, and replace it by the word "is
6 documented?"

7 CHAIRMAN STITT: Why don't we -- can I con you
8 into not making a motion as yet?

9 MEMBER FLYNN: Okay.

10 CHAIRMAN STITT: Let's keep discussing it because
11 sometimes we get stuck in our Roberts Rules of Orders and then
12 get -- can't get back on the road. But that sounds like one
13 to write down on the list.

14 Yes, go ahead.

15 MS. RIBAUDO: I wanted to elaborate on what Barry
16 said. I didn't realize it until you just pointed it out, but
17 from a health physics perspective, as we enforce what the
18 medical community does, even if you strike the word identify,
19 Barry's right; there's still a requirement the way it's
20 worded.

21 Any unintended deviation from the written
22 directive is documented and evaluated. There's still the
23 requirement. It's implicit. You have to first identify. So
24 what about if you were to say something like if an unintended
25 deviation is discovered?

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1 Then document and evaluate it. That way you get
2 around the point Barry was making that implicit, no matter how
3 it's -- you see my point? I don't know the legalese here.
4 Can you have a regulation with the word if in it?

5 CHAIRMAN STITT: I doubt it.

6 MEMBER SWANSON: Well, you could change it to any
7 identified --

8 CHAIRMAN STITT: Okay, let's keep discussing
9 four. And then once we've agreed on what we're going to agree
10 to, then we'll make the motion.

11 MEMBER NELP: I'd like to ask what's the
12 objection to the way it's written? It's not intrusive. It's
13 something you do ordinarily anyway. And I don't understand
14 what all the hubbub is about.

15 CHAIRMAN STITT: Well, I think that's what Barry
16 was trying to say, that the problem is --

17 MEMBER NELP: It's just the way you do business
18 right now. You have to do business that way or you're not in
19 the practice of medicine.

20 MEMBER GRAHAM: But the distinction is between
21 the practice of medicine and the federal regulation that would
22 require you to do it. And I think what we've been discussing
23 today -- unless I'm mistaken, half of this committee doesn't
24 think a QMP ought to exist at all as federal regulation.

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1 Now -- but that wasn't an option that was
2 presented as available on the table. So given that we had a
3 mandate to suggest how a QMP would take place, now we're in
4 the realm of federal regulation. I don't believe that we're
5 benefitting safety of the patients or significantly changing
6 the safety of the public by having this audit piece in here.

7 Hospitals will do it on their own.

8 MEMBER NELP: But, on the other hand, if you were
9 the regulator and you asked me to do this, I'd say that's no
10 problem. You're welcome -- I'm welcome to do that for you if
11 you want to assist me in the regulation of safety, and I don't
12 have a problem with that.

13 I don't feel intimidated or over burdened by
14 making -- saying I'm already doing this.

15 CHAIRMAN STITT: I have the microphone.

16 Under point six, the quality management program
17 provision should be reevaluated and revised to focus on those
18 requirements that are essential for patient safety. For
19 example, confirming patient identity, requiring written
20 prescriptions, and verifying dose.

21 It's possible that four can be stricken
22 completely. Because without four, we still maintain these
23 mandatory QMP points.

24 All right, we'll do this side of the table.
25 Let's start with Dennis and work down.

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1 MEMBER SWANSON: I think it's back to an
2 essential record keeping requirement that we really need here.

3 CHAIRMAN STITT: And what should be contained in
4 it?

5 MEMBER SWANSON: I'm back to, you know, that any
6 identified, unintended deviation from the written directive is
7 documented and evaluated.

8 CHAIRMAN STITT: Just say it one more time for
9 me, would you?

10 If any --

11 MEMBER SWANSON: That any identified, unintended
12 deviation from the written directive is documented and
13 evaluated, and appropriate action taken.

14 CHAIRMAN STITT: What's appropriate action?

15 MEMBER SWANSON: Well, okay, maybe we take that
16 out. And evaluate, period.

17 CHAIRMAN STITT: Documented and evaluated?

18 Let's keep going.

19 Theresa and then Jeff.

20 MEMBER WALKUP: I think -- I disagree with
21 removing four because if a therapist comes to me and said I
22 have a cobalt unit, I gave -- I set it up for two minutes and
23 15 seconds instead of two minutes and 51 seconds, okay, I've
24 now deviated from my written directive.

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1 And if I'm not allowed to go in and fix it in the
2 next day or two, or if I do -- okay, I gave too much today, so
3 we're going to take away a little bit for the next several
4 treatments. Now I've deviated again unless you give me number
5 four.

6 MEMBER FLYNN: No, no; you've changed the
7 prescription.

8 MEMBER WALKUP: Well, right. But you know --

9 MEMBER FLYNN: You can change the prescription
10 during treatment as much as you want to as long as yo don't
11 change it after the fact.

12 MEMBER WALKUP: But if you misadministrate, then
13 it was done before it was changed.

14 MEMBER FLYNN: Every dosimetrist will come to the
15 physician and say this is what happened, what do you think, is
16 it acceptable to give five -- you know, ten more rads the next
17 two days.

18 MEMBER WALKUP: That's right.

19 MEMBER FLYNN: And the physician says yes and
20 initials his name. And that's a prescription.

21 MEMBER WALKUP: But that's why I think we need
22 number four.

23 CHAIRMAN STITT: You're confusing regulation with
24 practice of medicine, I think. I think they've done a good
25 job with you, Theresa. They've got you working.

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1 You can do -- you can practice medicine with your
2 dosimetrist there and physicians and removing four does not
3 prevent you -- whether it's there or not there doesn't prevent
4 you from doing what you just said needed to be done for that
5 patient.

6 Jeff.

7 MEMBER WILLIAMSON: Well, I actually want to
8 comment on three and four together. I think three has enough
9 force. You know, this is an objective. It's not a fully
10 pledged plan of how to execute the objective. It's simply an
11 objective. And I think if someone follows that objective, one
12 thing they would do is, as appropriate for each modality, have
13 some method of identifying unintended errors and so forth.

14 So I don't think four needs to demand an audit.
15 So I would agree with the comments that suggest we put the
16 conditional in four.

17 I think there is a role for keeping four, some
18 form of four, as a federal regulation. I think that some
19 institutions I think are a little weak on having a good
20 feedback mechanism, and I really think that this is maybe sort
21 of a good use of federal regulation to encourage institutions
22 in some sort of at least semiformal fashion to use incidents
23 and errors to feed back in order to improve their process of
24 treatment, delivery and planning.

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1 CHAIRMAN STITT: So it sounds like we have some
2 support for four, with a possible change in the wording. And
3 I do remind you that by retaining four, I think it goes back
4 to John's pseudo motion that the licensee is required to
5 maintain recordable events whenever we get that definition
6 discussed.

7 They go hand in hand.

8 Naomi.

9 DR. ALAZRAKI: I think that in addition to the
10 changes that we've discussed, that any identified, unintended
11 deviation from the written directive, I think you have to
12 define that there which meets the criterion of recordable
13 event, whatever that turns out to be, has to be in there.

14 Because we don't want to identify, you know, very
15 minor deviations.

16 CHAIRMAN STITT: Go ahead to the left side. I
17 heard Ruth. There's a lot of mumbling over here amongst these
18 three, Ruth, Dennis, Lou. Ruth and then Lou.

19 MS. McBURNEY: Yeah, I still think you need to
20 keep number four and remembering that the written directive
21 only applies to what's now in number one. That it's only
22 required -- that the written directive is only when the dose
23 to any organ or tissue exceeds 50 rem.

24 So it would be a deviation from that written
25 directive that would be required.

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1 CHAIRMAN STITT: Lou.

2 MEMBER WAGNER: Well, the problem you get into
3 is, as always, it's in the enforcement of these rules once you
4 get them in there because again, you've got the unintended --
5 the identified, unintended deviation. First you get into
6 definitions of what is it.

7 Okay, number two, did you evaluate it or was it
8 the appropriate action that you took? I mean, one -- an
9 inspector's perspective on that problem is going to be
10 entirely different than the user's perspective on this
11 problem.

12 And while it's no problem for us within medicine
13 to identify what we mean by that and to actually take action
14 and act on it in a professional quality improvement, as a
15 regulation it becomes a very difficult issue.

16 And I sympathize with the idea that what we want
17 to do is to try to elevate the -- perhaps the quality
18 standards of some practitioners who could benefit by doing
19 this more often. I mean, I don't have a problem with that
20 either.

21 The difficulty I have is when we make this a
22 regulation, it applies to everybody. It's got to be enforced
23 to everybody. And again, it's more of a handcuff on those who
24 are practicing good medicine already to have this in there, to
25 struggle with it, to go through all of the paperwork and

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1 everything as identified with it without being very productive
2 in terms of changing what you really do.

3 CHAIRMAN STITT: Other comments? We're looking
4 at (a), number one, two, three and four.

5 I'm going to go over this way for a while and
6 then come back.

7 John.

8 MEMBER GRAHAM: And I'm looking for feedback from
9 the other side of the table as to how this could work or would
10 work.

11 If you read paragraph (a), it says each applicant
12 or licensee under this part, as applicable, shall establish
13 and maintain a written quality management program to provide
14 high confidence that byproduct material or radiation from
15 byproduct material will be administered as directed by the
16 authorized user.

17 Then we've got point number one, which is the
18 written directive; point number two that's confirming it's the
19 right patient; point number three, that you're documenting the
20 administration.

21 Can point number four simply be describe in your
22 quality management program how you maintain a high confidence
23 that the byproduct material will be administered as directed
24 by the authorized user? That gives you complete flexibility
25 on how you write it, and yet does provide a requirement that

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1 they document that for this outlying, shoddy program that may
2 need a little help.

3 MEMBER NEMP: That's what it says right now. It
4 says if you screw up, make a note of it, --

5 MEMBER GRAHAM: Mine's much broader than that be
6 design because then it doesn't get into issues like
7 identifying what unintended deviation is defined as and how it
8 was identified and how it's evaluated.

9 It's something less than just striking item
10 number four. It's saying tell us in the plan how you assure
11 that byproduct material or radiation from byproduct material
12 was administered as directed.

13 CHAIRMAN STITT: Has something that loose been
14 part of what licensees had to write in their QMP at this
15 point? No, you -- if it was, you'd know it? Okay.

16 Anybody else over here before I let these guys
17 have their way?

18 Go ahead.

19 MEMBER FLYNN: In paragraph (a), for years now,
20 I've been -- I think the -- we debated this before the QM rule
21 was even put in effect with the NRC. But the term high
22 confidence always bothered me instead of -- high confidence
23 sounds like a Mel Brooks movie or something, High Anxiety.

24 It should be to provide guidance, I think.
25 Because I think it -- I think human error is going to be with

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1 us all along. There's not going to be a zero error rate even
2 if you have a QM program. I thought guidance would be better
3 as opposed to high confidence or high anxiety or whatever.

4 CHAIRMAN STITT: And how many years has this
5 bothered you? You're just now --

6 MEMBER FLYNN: Since 1990.

7 CHAIRMAN STITT: Okay, that's a good comment.
8 I'll put that down here.

9 Jeffrey.

10 MEMBER WILLIAMSON: I'd like to comment about
11 provision number two, which is, to me, not an objective; it's
12 a prescriptive requirement. It doesn't say, you know, create
13 a program that, with confidence, makes sure you deliver the
14 right treatment to the right patient; but it actually
15 prescribes a remedy to the problem which is you must have a
16 way of identifying the patient redundantly.

17 To me, that's over -- it's not only too
18 prescriptive, but it's a grave oversimplification of the basic
19 problem. Because in radiation oncology for some of the more
20 complex treatments, you not only have to worry about the
21 identity of the patient, but you've got to worry do you have
22 the right records, do you have the right treatment planning
23 program.

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1 So there's a sort of a much more complicated
2 issue the physicist needs to deal with in making sure that
3 this concept of identity is being executed in the proper way.

4 So I would propose that this be written in a less
5 prescriptive way basically requiring that one of the elements
6 of the program be, you know, a procedure to ensure that the
7 with high confidence or whatever one wants to put in there --
8 that the intended treatment is delivered to the correct
9 patient and leave it at that.

10 And if that requires dual identification,
11 redundant identification in this very formal way in some
12 settings, that could be put in place in the institution's
13 program. And where other types of internal procedures would
14 be more appropriate, those could be substituted.

15 CHAIRMAN STITT: Confirming patient identity is
16 one of the elements that's required. It does not have to --
17 it could be -- the sentence could be truncated after is
18 verified.

19 MEMBER WILLIAMSON: That's right.

20 CHAIRMAN STITT: But the first part of that
21 sentence is -- we're obligated to.

22 All right, so that's another -- any other
23 discussion on the point that Jeff was bringing up?

24 The remainder of the sentence says by more than
25 one method. We may end up having to vote on these, you guys.

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1 Other comments? We're still on section (a), one
2 through four; but we're getting there, so don't give up hope.

3 No, Jeff, you can't have your turn again until
4 someone else speaks.

5 All right, go ahead.

6 MEMBER WILLIAMSON: All right, well I'm concerned
7 a little bit about the footnote, the second paragraph of
8 footnote one where it talks about, you know, the ability to
9 revise the written directive. And it makes it sound like, to
10 me, that suppose, you know, one's giving a low dose rate
11 brachytherapy treatment that takes 40 hours.

12 Administering the dose, to me -- that act means
13 starting the treatment. And as I read this paragraph, it
14 says you can't modify the prescription after you start the
15 treatment. And I think it's unclear. It should say you can
16 modify the prescription any time before the completion of the
17 treatment would be more clear.

18 MEMBER FLYNN: And that's also part of the way
19 the QMP was modified years ago in terms of brachytherapy, low
20 dose rate brachytherapy. You can change the prescription
21 anytime. Because I gave the example -- this is six years ago
22 -- whereby a patient in the hospital is ill. You have to take
23 the implant out.

24 You know, that she's confused, blood pressure's
25 dropping. You can modify the prescription anytime during the

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1 treatment and remove the implant early. And this happens all
2 the time.

3 CHAIRMAN STITT: Yeah, it makes no sense that you
4 have to do it prior to use. That presumes you know what's
5 going to happen.

6 MEMBER WILLIAMSON: Yes, that's right. And I
7 don't think that's the intent of this paragraph. I'm sure
8 it's perhaps just a mistake or an unclarity in the language.

9 CHAIRMAN STITT: You could say a written revision
10 to an existing written directive may be made for any
11 diagnostic or therapeutic procedure, period. Or provided that
12 the revision is signed and dated, period.

13 MEMBER FLYNN: For the low dose rate
14 brachytherapy, you can -- according to the existing QMP, you
15 can change -- we got that modified. You can change the
16 written directive anytime during the treatment.

17 CHAIRMAN STITT: Well, we can do the same for
18 high dose rate. It's just a little less common than for low
19 dose rate.

20 All right, it sounds like we're not satisfied
21 just to look over one through four, that now we're on the
22 footnotes. How about the nuclear medicine folks in the room?

23 Naomi.

24 DR. ALAZRAKI: A couple of things I wanted to
25 address.

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1 What you were just talking about, about writing
2 another -- or being able to change the prescription at the end
3 of the series of, let's say, brachytherapies, in the past, in
4 nuclear medicine, if the dose administered was -- exceeded
5 whatever, 20%, from the written directive but was lower than
6 the written directive -- in other words, instead of 100
7 millicuries, let's say 50 millicuries was given, that became,
8 quote, "a misadministration" because it deviated by more than
9 the prescribed amount.

10 But, in fact, the physician could just have
11 administered the remaining 50 millicuries at some -- upon
12 discovery of the mistake.

13 MEMBER SWANSON: It's still a mistake.

14 DR. ALAZRAKI: What? Yeah, it's a mistake.
15 Well, it's mistake just in the same way that the external beam
16 therapy is a mistake, which can easily be corrected in the
17 therapeutic process. I'm just making that point because it
18 was in line with what was said and could be applied to the
19 radionuclides as well.

20 I'm wondering also about in number one the number
21 50 rem as being the number for criterion as to whether or not
22 a written directive is required and where that came from.

23 MS. HANEY: Well, it came from Part 20. But it
24 was -- I would offer that there was -- it was a number that we
25 pulled up. It was already in the regulation. And in

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1 justifying this in the statements of consideration, we'd have
2 to go much further than that.

3 So at this point, we're only throwing it out to
4 get comments on it.

5 MEMBER SWANSON: And it is fairly consistent with
6 the current regulations which would require a written
7 directive for 30 microcuries of iodine-131, which is what --
8 how many rads the normal thyroid -- roughly 60?

9 DR. ALAZRAKI: Yes.

10 MEMBER SWANSON: Fifty rads per microcurie?

11 Okay, so it would be consistent with the current
12 requirements for a written directive.

13 DR. ALAZRAKI: About 30 microcuries.

14 MEMBER SWANSON: Right.

15 CHAIRMAN STITT: We're getting close on time
16 here. One thing that we could do would be to -- we could make
17 motions on everything we have discussed one by one. We could
18 make a summary of topics of comments and send them in a
19 bulletin fashion to -- in our minutes.

20 MS. HANEY: Well, I think it would be helpful, at
21 least from my standpoint, is if the committee does agree that
22 alternative two is the best of all four alternatives, to have
23 that in the record.

24 CHAIRMAN STITT: Well, I think we can say that.

25 I could ask the committee to make a motion on it. We have

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1 agreed that we're going to discuss the one, two -- the last
2 key item later. But just everything that we've discussed and
3 voted on so far, leave it as alternative two.

4 Yes, we've voted down everything else.

5 MEMBER NELP: I think we've had a good
6 discussion. It's all recorded. And if it ends up in the
7 minutes, we can go over those and revise the minutes according
8 to any real deviations from what we said. And I think it will
9 come out -- I think we're all on the same wavelength as we sit
10 here at this point in time.

11 CHAIRMAN STITT: Is it coming across that way in
12 the minutes? Because if we don't need to make motions on each
13 of these -- each of these discussions we've had of (a) -- I
14 think we are being fairly clear on these.

15 Jeff.

16 MEMBER WILLIAMSON: Well, I think it depends
17 whether you, as our Chairman, feel you can -- you have a sense
18 of the consensus here and can summarize it accurately or
19 whether we need to work more to clarify what it is we --

20 CHAIRMAN STITT: Well, why don't we try at least
21 something that summarizes what our discussion has been about.

22 As I just read through them, if we look, we are
23 now saying that alternative two, section (a), which has a
24 number of points starting with (a) itself, the comment of high

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1 confidence really refers to guidance is one of the issues that
2 we had a positive discussion about.

3 That (1) that's enclosed in parentheses, there
4 was some discussion of 50 rem, but I don't know that we want
5 to get into any details of that. We just addressed it and
6 said yes, we hear.

7 Number two, one of the comments that came up was
8 that, prior to each administration, the subject needs to be
9 identified -- the subject's identity needs to be verified.
10 That may be sufficient for two.

11 Point number three, we were accepting as is. And
12 point number four had a lot of discussion regarding
13 identification versus documentation and whether evaluation
14 and/or appropriate action even needs to be a part of number
15 four.

16 I think that we felt number four does need to
17 remain, however. There was also discussion of -- down in the
18 footnotes. Revision of an existing directive and whether that
19 has to be done prior to when a patient's condition changes.

20 MEMBER SWANSON: It certainly has to be done
21 prior to administering a radiopharmaceutical dosage, so that
22 part can stay in there, okay? I think.

23 DR. ALAZRAKI: I think we should have the same
24 option to correct when under dosed.

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1 MEMBER SWANSON: You always have the option to
2 correct, okay.

3 CHAIRMAN STITT: Well, those are the -- yeah,
4 those are the summary of the comments that we have been
5 discussing for the past 20 minutes.

6 Naomi and Barry.

7 DR. ALAZRAKI: I think one other thing, as sort
8 of a preamble to all of it, is that I think many of the people
9 sitting around the table did feel that we were discussing
10 practice of medicine rather than radiation safety.

11 And that if given the option, that discussion
12 would have been deemed not appropriate for this particular
13 regulatory agency.

14 CHAIRMAN STITT: Barry, do you have something to
15 say?

16 DR. SIEGEL: Just a comment about the second
17 paragraph under the footnote. It really is just part of the
18 same objective that says before you do it, give written
19 orders. And this just says before you revise it, give written
20 orders. It's again, don't shout down the hall and say turn up
21 the dose rate.

22 You've got to write it down. And the truth is,
23 if you then fig a little further in the regulation,
24 brachytherapy prescription can be modified in process. It

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1 just has to be written down. It's just not something the
2 technologist does on his or her own recognizance.

3 It has to be directed by the physician.

4 MEMBER WILLIAMSON: My comment wasn't directed
5 against that point. My comment was directed against the
6 language which seemed to be more regressive than the currently
7 published regulations which, to me, clearly allow a written
8 directive to be revised at any point up until the end of --
9 the completion of therapy if the therapy takes a finite, non-
10 zero amount of time.

11 CHAIRMAN STITT: This is actually the same
12 wording.

13 MS. HANEY: We didn't make any changes in the
14 footnote. This is the same wording as in status quo in the
15 current rule.

16 MEMBER WILLIAMSON: I don't know about you, but
17 it doesn't seem too clearly --

18 MS. HANEY: No, I'm not disagreeing with that by
19 any means.

20 CHAIRMAN STITT: Do you think it's sufficient to
21 have enumerated our discussions?

22 Okay, are you ready for a break? Anybody want to
23 make a motion? I'll just declare a break. What is this, do
24 we get 15 minutes for this one?

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1 (Whereupon, the foregoing matter went off the
2 record at 2:32 p.m. and went back on the record
3 at 3:00 p.m.)

4 CHAIRMAN STITT: Go ahead.

5 MS. HANEY: The next topic for consideration is
6 the radiation safety committee. And the key areas here were
7 when -- under what conditions would a radiation safety
8 committee be required. The working group came up with four
9 alternatives. We're actually working group and steering
10 group.

11 After we came up with the alternatives, we did go
12 into the rule language space and make some changes there. So
13 I would suggest that maybe we handle this area the same way as
14 we handle the previous topic area, is go through and first
15 decide on what's -- you know, when a safety committee is
16 important.

17 And then we can look at the rule language for
18 that particular alternative and decide if we -- if changes
19 should be made to that text.

20 As far as the alternatives, one is status quo,
21 and that's a radiation safety committee as required for all
22 modalities in a medical institution. The second alternative,
23 that the radiation safety committee is required for a medical
24 institution in all modalities with the exception of the

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1 diagnostic, low dose, sealed and unsealed byproduct material
2 uses.

3 That alternative was really getting at the point
4 of that if the modalities posed a very low risk, a radiation
5 safety committee was not required.

6 The third alternative is that there -- a
7 radiation safety committee is not required for any medical
8 licensee. And then the fourth is that the radiation safety
9 committee will not be required, but rather the medical
10 licensees will be required to establish and implement a
11 program for administrative and technical oversight of the
12 radiation safety committee.

13 There is, similar to the others -- at the back of
14 your package on page eight, there is a chart. If you want to
15 start with that -- again, on this one, it's a little bit
16 harder because we have more key items for consideration.

17 In column two, I would offer we got into having
18 to do a double check there first with the radiation safety
19 committee and then without the radiation safety committee. So
20 that's why we have the X slash. And then we have alternative
21 three and four.

22 And with this, I think I'll just turn it over to
23 the committee unless you have any specific comments that you
24 want me to make.

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1 CHAIRMAN STITT: Anything the committee wants to
2 direct to Cathy while she's up there? She'll be here, so we
3 can -- we can grab her.

4 I think we've got the hang of what's worked for
5 us in these other two issues, so let's just keep doing that.

6 Who feels strongly about radiation safety
7 committees on this committee? I just wanted to see if I could
8 wake up the group. Who feels strongly about radiation safety
9 committees?

10 All right, so we do have some -- Jeff, don't you
11 want to raise your hand? All right, I'm surprised.

12 MEMBER WILLIAMSON: I'm sure I'll think of
13 something to say.

14 CHAIRMAN STITT: I'm sure you will.

15 Dennis, jump in here.

16 MEMBER SWANSON: I feel strongly that radiation
17 safety committees are required within a medical institutional
18 environment. I think the RSO's need the support of a
19 radiation safety committee. I think the administration needs
20 the support of radiation safety committees within their
21 environment.

22 I think the issue, in my opinion, is not the need
23 for a radiation safety committee, but the very prescriptive
24 requirements that you have underneath your designation of

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1 radiation safety committee. You don't require it for quorums,
2 etc.

3 That, to me, is the issue. I think what I would
4 like to see as an option is retention of the radiation safety
5 committee, but allowing the institution to develop their own
6 policies and procedures relative to how that radiation safety
7 committee operates.

8 CHAIRMAN STITT: Dennis, let me ask you where
9 your feelings would fit into the four alternatives? We're
10 doing this a little bit differently. I guess I'd like some
11 general comments and I'm going to direct those because there's
12 so many individual bullets here and I'd like to get some
13 general feelings.

14 So what you just expressed, does it fit
15 into --

16 MEMBER SWANSON: Well, it's kind of a -- you
17 know, it's kind of a cross between alternative one and
18 alternative four, I believe, in that I would like to see the
19 requirement be maintained to have a radiation safety
20 committee.

21 But if you look at item number four or
22 alternative four, it really addresses that the licensees will
23 be required to establish and implement a program for
24 administrative and technical oversight of the radiation
25 safety.

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1 Okay, the problem with number four as currently
2 written is it says an RSC will not be required. And in my
3 opinion, I think you need a radiation safety committee.

4 CHAIRMAN STITT: Okay, Cathy, go ahead.

5 MS. HANEY: Dennis, on page five, which is the
6 rule text that would go along with alternative two, we made
7 some changes from the status quo rule text to remove some of
8 the prescriptiveness of the current rule that I think you
9 mentioned.

10 What you may be looking at is something closer to
11 the rule on page five, but with deleting a few more of these
12 items than what the working group did as compared to being
13 closer to alternative four.

14 CHAIRMAN STITT: And that's alternative two, the
15 rule text, that you were just describing?

16 MS. HANEY: Right.

17 CHAIRMAN STITT: I might ask some of you to start
18 --

19 MEMBER SWANSON: I think what I'm saying is you
20 just -- you really need to get away from all prescriptive --
21 putting any kind of prescriptive requirements on how that
22 radiation safety committee conducts its business, okay,
23 period.

24 But I would strongly recommend that you retain
25 the concept of a radiation safety committee. Again, you know,

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1 I think a radiation safety officer needs the support of a
2 radiation safety committee in order to ensure continued
3 administrative support of the radiation safety program within
4 the institution.

5 Conversely, I think that the administration of
6 the institution needs the opinions of a radiation safety
7 committee so as to ensure that these opinions are not solely
8 the opinions of a radiation safety officer. And that's the
9 role that I see the radiation safety committee providing to
10 the institution.

11 I think it's pretty important. And I think one
12 of the things you're going to have to define is what do you
13 mean by medical institution, because I'm not sure that's clear
14 to us anymore, okay -- any of us practicing today what a
15 medical institution means, okay.

16 But that's a little bit of a sideline.

17 CHAIRMAN STITT: Well, it's possible that there's
18 an alternative five, and I don't -- I hate to recreate things,
19 but we were, you know, allowed to consider that. I'm not
20 going to start suggesting that, but just to say it's possible.

21 I'd like to get more comments from people who
22 have strong opinions, strong feelings.

23 Naomi.

24 DR. ALAZRAKI: What about number two, Dennis? It
25 says that the radiation safety committee is required except

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1 when only diagnostic low dose byproduct material is used.

2

3 MEMBER SWANSON: Well, do you want me to respond
4 to that?

5 CHAIRMAN STITT: Go ahead.

6 MEMBER SWANSON: You know, I think in reality, if
7 this is applicable to a medical institution, your medical
8 institution isn't going to be limited to just provision of
9 nuclear medicine. Okay, so it's kind of a moot point. And
10 certainly, in my medical institution --

11 DR. ALAZRAKI: There are many institutions which
12 don't have any --

13 MEMBER SWANSON: Well, it depends on how you
14 define medical institution, I guess. That's the point I'm
15 trying to make.

16 MS. HANEY: Yes, I can just add that the work --
17 yes, the working group touched on what Dennis is mentioning,
18 that how do you define medical institution. And again, we
19 chose not to spend too much time on that so that we could move
20 forward.

21 The thought was that if it was in a hospital
22 setting, that -- where you're getting into multi-disciplines,
23 that's where the medical institution -- that's where you need
24 the radiation safety committee. For the stand alone physician
25 with a nuclear -- you don't need it.

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1 But you're right, we would need to define better
2 medical institution.

3 MEMBER SWANSON: I don't have any problems with
4 that concept. Okay, I don't have any problems with the
5 concept if only diagnostic nuclear medicine is the only entity
6 in that institution. But it wouldn't make sense to me to have
7 a radiation safety committee in an institution where you need
8 a radiation safety committee and exclude diagnostic nuclear
9 medicine.

10 That doesn't make sense to me.

11 MS. HANEY: No, that was not the intent of this
12 option. It was if the facility was only licensed for, say,
13 the current 100 and 200, they don't need a radiation safety
14 committee.

15 CHAIRMAN STITT: So, just a second; let me finish
16 with Naomi.

17 So the reason you said what about number two is
18 to discuss it?

19 DR. ALAZRAKI: Right, but I think that number
20 two, to me, does make sense. I think that any institution
21 which is providing "high risk" procedures using radioactive
22 materials or radiation delivery needs a radiation safety
23 committee.

24 And to support -- for all the reasons that Dennis
25 said, to support the radiation safety officer, to be sure that

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1 there is a level of awareness on the part of the
2 administration and on the part of physicians practicing in the
3 institution about radiation safety.

4 So I think number two sounds to me very
5 reasonable.

6 CHAIRMAN STITT: It would be hard to believe that
7 this group could hone in on something that quickly.

8 Barry's jumping up and down, and then Dan.

9 DR. SIEGEL: I'm not jumping up. Just a point of
10 -- I think Naomi's picked up on it. As it came across in this
11 version, option two is not worded correctly because it implies
12 that the committee doesn't have purview over 35.100 and 35.200
13 activities.

14 When in fact, what it means to say is that you
15 don't need a committee if the only thing you're licensed to do
16 is 35.100 and 35.200. If you're licensed to do other things,
17 then all of it comes under the purview of a committee. And I
18 also, just for the record, support the concept of radiation
19 safety committees for all the reasons Dennis said.

20 CHAIRMAN STITT: Barry, what you were just
21 referring to when you look at our page eight, alternative two,
22 with radiation safety committee/without radiation safety
23 committee, is that what you're referring to?

24 DR. SIEGEL: No, I'm -- look on page five.

25 CHAIRMAN STITT: Okay.

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1 DR. SIEGEL: And right at the beginning of the
2 draft rule text where it says each medical institution
3 licensee shall establish a radiation safety committee to
4 oversee the use of byproduct material, with the exception of
5 diagnostic low dose, sealed and unsealed byproduct material
6 use.

7 That implies that the committee wouldn't look at
8 that stuff. That's not what's meant. At least I don't think
9 that's what's meant.

10 MS. HANEY: It was not what was meant.

11 MEMBER NEMP: That's the exception of
12 institution use only.

13 DR. SIEGEL: That's correct. And there are some
14 of those. And those small, 20 bed hospitals that only have
15 diagnostic nuclear medicine don't need to be burdened with a
16 radiation safety committee.

17 CHAIRMAN STITT: Let me ask Cathy then to explain
18 to me the -- in the matrix on page eight, the slashes. So
19 you're saying if it's the small group that Barry just referred
20 to, the other side of the slash refers to them?

21 MS. HANEY: Correct.

22 MEMBER WILLIAMSON: It seems maybe one way to
23 address the question is not should there be a radiation safety
24 committee. I think that's sort of like asking should there be
25 motherhood and apple pie and stuff like that. But are -- is

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1 basically the current mode of medical practice such that we
2 need a federal law to keep this check in place with a high
3 level of confidence?

4 I guess that's, to me, sort of the John Graham
5 test here, if I could call it that.

6 CHAIRMAN STITT: Go ahead, the John Graham test.

7 MEMBER GRAHAM: I think with the clarification of
8 alternative two that we've discussed, that, as I understand
9 it, means there would be a radiation safety committee in
10 organizations that covers diagnostic materials as well.

11 Yes, I'm saying in this -- this is one of those
12 rare situations where I would say there's a federal regulation
13 that would retain a radiation safety committee for all the
14 reasons that have been discussed. And that's from someone who
15 literally spends time every couple months evaluating what
16 hospital committees we could kill.

17 This is not one of them.

18 CHAIRMAN STITT: Would the group like to focus on
19 alternative two as far as the subcomponents?

20 All right, you going to go along with that for
21 now, Lou? Okay, all right.

22 MEMBER FLYNN: Are we going to make a resolution
23 that we accept two or not?

24 CHAIRMAN STITT: Yes, please do that.

25 Dan.

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1 MEMBER FLYNN: I make a --

2 CHAIRMAN STITT: Do you want John to speak for
3 you?

4 MEMBER FLYNN: I make a motion that we support
5 alternative number two with the modification that institutions
6 who exclusively have diagnostic low dose, sealed and unsealed
7 byproduct use do not need to have a radiation safety
8 committee. But otherwise, they would fall under the purview
9 of a radiation safety committee in other circumstances.

10 CHAIRMAN STITT: All right, discussion.

11 Lou.

12 MEMBER WAGNER: I think I agree with it in
13 principle, but I'd like to extend it a little bit to say
14 diagnostic low dose sealed is -- excludes the potential for
15 the same facility to be able to treat hyperthyroidism. And
16 that can be done on an outpatient basis.

17 And I personally would like to see that also
18 included because there's lots of small facilities that will do
19 the majority of diagnostic, but they'll have a few patients
20 that they treat too, and that's all on an outpatient basis.

21 They have a radiation safety officer that
22 oversees the issues. They have a physician that oversees the
23 issues. They have a technologist there. It's an outpatient
24 basis. I'd like to see that included in the definition here.

25 MEMBER NELP: Of exceptions?

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1 MEMBER WAGNER: Yes, the exception of diagnostic
2 low dose, sealed and unsealed byproduct material uses. And
3 I'd also like to include in that the outpatient treatment of
4 hyperthyroidism.

5 CHAIRMAN STITT: Dennis and then Naomi.

6 MEMBER SWANSON: I have a problem with that in
7 that now you're going from something that's clearly low risk
8 to something of a different level of risk, and then we're
9 going to have to make that determination for every other
10 procedure that we do.

11 Clearly, the NRC has recognized diagnostic
12 nuclear medicine as low risk. Let's leave it like it is and
13 not try to confuse it with that issue.

14 CHAIRMAN STITT: Naomi.

15 DR. ALAZRAKI: I think what Dennis -- I'm not
16 sure that I understood what you just said, Dennis, but I think
17 that if you're using therapeutic doses of I-131, that you
18 really do need the radiation safety committee to support the
19 RSO and to also raise the awareness of the administration
20 about the issues of radiation safety.

21 Because you are dealing with doses which -- of I-
22 131 which fall into the category of they need special
23 attention, I think.

24 MEMBER WAGNER: I have personal experience with
25 it since I run such an institution. And it's very small in

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1 terms of a lot of its procedures. There's basically only
2 three people involved, the technologist, myself and the
3 physician.

4 And we never have any problems, and I never have
5 any problem getting support from administration. And whenever
6 we meet, we meet as a group. We meet as a group or three
7 people. We meet as a group and we go over all the issues. We
8 address all those things.

9 I don't understand -- yes, but here you're
10 getting into this rule about the committee meeting, and then
11 you're going to fall under all the other prescriptive elements
12 of the committee.

13 MEMBER SWANSON: But that's what we're talking --
14 that's what they need to take out.

15 DR. ALAZRAKI: Yes, the committee could be
16 adjusted for the type of situation that you're talking about.

17 MEMBER WAGNER: And then also -- well, okay.

18 I can see your point. If the size of the
19 committee could be adjusted for that, that's one issue.

20 But I just don't want to see facilities that are
21 just limited by that to be hampered by having requirements for
22 another committee which has so many X members, and have such a
23 size, and meet on a formal basis, and that take minutes for a
24 quorum and all that other stuff, which simply is unnecessary.

25 CHAIRMAN STITT: Go ahead, Ruth.

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1 MS. McBURNEY: Yeah, I think it's important for
2 those facilities to still have a radiation safety committee if
3 they're doing therapeutic -- using any therapeutic levels of
4 material.

5 In the situation you were talking about, Lou,
6 it's probably more important that we have more flexibility in
7 the make up and membership of the committee, especially if
8 it's a radiation safety officer that's off site in these small
9 facilities that's not on site all the time or physicist or
10 whatever to get together periodically to discuss matters, but
11 may not need to be made up of all these other representatives.

12 CHAIRMAN STITT: Just a comment.

13 We have a motion that we will vote on, and then I
14 think to follow what we've been doing on other sections, then
15 we should go through the draft text point by point.

16 Okay, Dan, we'll let you make this motion. Do
17 you want to repeat it?

18 MEMBER FLYNN: I make a motion that we accept
19 alternative two with clarification that the institutions with
20 only diagnostic, low dose, sealed and unsealed byproduct
21 materials do not have to have a radiation safety committee.

22 CHAIRMAN STITT: Okay.

23 All those in favor? All those opposed?

24 And the good news is, if we continue to chug
25 along at this rate, we're going to take some of tomorrow's

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1 agenda and put it today. That's to spur you on. I don't know
2 if you view that as good news or bad news.

3 In fact, Cathy's gone out to see if she can
4 hustle some -- let's turn to page five. If I've got it
5 correct, that is alternative two, which we just voted in favor
6 of. And some of this gets into the specifics that I think a
7 number of the committee members brought up.

8 Let's start discussing the draft rule text for
9 alternative two.

10 Dennis, go ahead.

11 MEMBER SWANSON: For alternative two, you know,
12 to get rid of the very prescriptive requirements here, I would
13 suggest that you look at alternative four now, okay.

14 And if you go to page seven under draft rule text
15 at the bottom of the page, you would have something like to
16 oversee the use of licensed material, the licensee must
17 establish a radiation safety committee or policies and
18 procedures relative to the operation of the radiation safety
19 committee that will do the following.

20 Okay, and those are the general performance type
21 of criteria without getting into anything prescriptive.

22 CHAIRMAN STITT: We may want to end up with a
23 motion on this because this gets a little more specific than -
24 - we were making commentary on the previous section.

25 MEMBER SWANSON: So moved.

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1 MEMBER NEMP: Second.

2 CHAIRMAN STITT: All right, we've got a motion
3 and we've got a second. And the motion is for us to turn to
4 page seven.

5 MEMBER WILLIAMSON: Do we need to vote on this
6 before we turn to page seven?

7 (Laughter.)

8 CHAIRMAN STITT: Well, the intent of the motion
9 was to turn to page seven. Let's discuss page seven, draft
10 rule text.

11 Dennis, why don't you just walk us through it.
12 You're the guys that have to use this, so talk to us about
13 this.

14 MEMBER SWANSON: I would say that draft rule
15 text, which now would come under option two, --

16 CHAIRMAN STITT: Right.

17 MEMBER SWANSON: -- okay, would say to oversee
18 the use of licensed material, the licensee must establish
19 policies and procedures relative to the operations of the
20 radiation safety committee that will do the following.

21 And really, those are pretty performance-based as
22 they're written there. I don't really have a whole lot of
23 problems with those.

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1 DR. SIEGEL: Except paragraph E because E is --
2 if you look at E on page seven, E is develop a mechanism for
3 communication.

4 MEMBER SWANSON: That is the mechanism. You're
5 right.

6 DR. SIEGEL: But the committee is the mechanism.

7 MEMBER WILLIAMSON: So would the proposal be to
8 take on page seven A and B and substitute it for B(1) through
9 B(5) on page five? Is that the idea?

10 MEMBER SWANSON: Yes, it would be basically
11 taking A through E and -- excuse me, A through D and
12 substituting it for everything that's currently under A and B
13 on page five.

14 CHAIRMAN STITT: The motion we're dealing with
15 was -- I mean, if we stick with your motion, that's
16 effectively what the trade off is. The motion kind of directs
17 us to the stuff on page seven.

18 All right, let's keep on discussing this.

19 MEMBER WILLIAMSON: Well, I think then it's not
20 clear what the definition of radiation safety committee is.

21 I would think one might want to keep the bit
22 there where it says that the membership -- you know, basically
23 should be a representative cross section of the primary users
24 and authorized users within the institution and include some
25 connection to management and the radiation safety officer and

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1 so on because that's the reason that was -- that we put forth
2 for having the radiation safety committee in the first place.

3 Otherwise, it doesn't seem that there is any
4 difference between alterative four and alternative two if you
5 don't keep the definition of the concept of radiation safety
6 committee intact in some form. Otherwise then radiation
7 safety committee can be whatever the institution specifies it
8 to be and we're back to alternative four.

9 CHAIRMAN STITT: Any rebuttal?

10 MEMBER FLYNN: I agree with that. I think you
11 could be a little bit more specific about the safety
12 committee. For a small institution, if it's a representative
13 from each modality, if there's one modality, there's one
14 member. Bigger institution, therapy, nuclear medicine and
15 other areas, there would be more representation to the
16 committee if there was nuclear cardiology and other people.

17 But a small institution, the committee would be,
18 by definition, small. So it shouldn't be too burdensome. I
19 find it's also -- is there something missing intentionally in
20 this? Since I'm a new RSO, I see there's something missing
21 here that we have to discuss every meeting, and that is I
22 don't see where it says review quarterly the exposure records
23 and review annually the ALARA program.

24 That was sort of, you know, carved in stone as to
25 something we do. Is that intentionally out of --

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1 CHAIRMAN STITT: Cathy has a comment.

2 MS. HANEY: Yes, it was intentionally taken out
3 thinking that the requirements in Part 20 to have an ALARA
4 program and periodically review your program cover those. And
5 we were going in with the philosophy that if there's a
6 requirement in Part 35 that is required -- also required in
7 20, that we would let 20 take care of it and take it out of
8 35.

9 MEMBER FLYNN: Okay, because -- I mean, I've
10 discovered problems with some exposure records and then we've
11 taken actions. But that wouldn't happen then. It's probably
12 not necessary. These are not major problems. They're -- you
13 know, they're --

14 MS. HANEY: Well, the intent again would be is
15 that yes, that review would still take place, but it would be
16 --

17 MEMBER FLYNN: By who?

18 MS. HANEY: By the radiation safety committee or
19 whoever is reviewing the ALARA program at the facility. And I
20 mean, I need Part 20 to give you the exact quote for you. But
21 there is a requirement for the annual audit of the program in
22 Part 20. And as part of reviewing that, one would look at the
23 film badge records, the dosimetry records.

24 And that's not necessarily being required under a
25 35 requirement, but would fall under a 20. Again, it was

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1 giving the licensee a little bit more flexibility in how they
2 do these things. And we just thought the Part 20 requirement
3 covered it.

4 You know, if you want to put it back in, we can
5 certainly put it back in. But it wasn't --

6 MEMBER FLYNN: I'm not sure if it should be back
7 in or not. I just wondered if it's not there -- I mean, if
8 you don't want it, keep it out. But do you think that the
9 licensees will pick up on the fact that they need to do it?

10 I mean, who's going to know if the safety
11 committee doesn't know that they should do it?

12 MS. HANEY: Well, I guess --

13 MEMBER FLYNN: How does that happen in a small
14 institution that they just say well, if they just don't do it,
15 they don't feel it's required anymore so they stop doing it?

16 MS. HANEY: We would still have in guidance space
17 when we're discussing radiation safety committee -- we'll
18 probably still have some references to Part 20 requirements.
19 That, you know, in addition, you know, Part 20 says you ought
20 to be doing this.

21 So it's not -- the guidance wouldn't be meant to
22 be just solely Part 35. I guess the other is that the
23 licensee should be familiar with Part 29 and what they should
24 be doing under Part 20.

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1 CHAIRMAN STITT: I'd like to get the committee
2 back to the items that are listed on page 7. I want to just
3 continue discussing these. There has been the issue brought
4 up that there potentially needs to be an addition, as long as
5 we're focusing on this group, because that's what the motion
6 has led us to focus on. But one of the comments that came up
7 was we may need to add some segment that talks about the
8 composition of the committee.

9 MEMBER SWANSON: I have no problem with including
10 a segment that addresses the composition of the committee.
11 However, I don't think that segment should include specific
12 requirements for specific individuals. So I would recommend
13 if you're going to do that that you would include a statement,
14 something like, "Membership must reflect the scope of
15 operations respective to the use of byproduct materials within
16 the institution and include the radiation safety officer and a
17 representative of management."

18 CHAIRMAN STITT: Do you have that written down?

19 MEMBER SWANSON: I do have that written down.

20 CHAIRMAN STITT: Okay. Because we need to --
21 I'll make a note that it must reflect the composition.

22 Okay. Let's continue to discuss page 7, A
23 through E, and there is a potential F that Dennis just
24 described.

25 MEMBER SWANSON: Probably be A.

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1 MEMBER WILLIAMSON: Well --

2 CHAIRMAN STITT: Oh, yes, Jeff. Okay.

3 MEMBER WILLIAMSON: Well, on page 7 under A,
4 maybe teletherapy physicist might be kind of an outmoded
5 requirement as --

6 CHAIRMAN STITT: Yes.

7 MEMBER WILLIAMSON: -- a category.

8 CHAIRMAN STITT: Go ahead, Cathy. I think we've
9 discussed this before.

10 MS. HANEY: This is something that I think will
11 get refined further on down the line as we work with it. Some
12 thoughts were given to, you know, in this case just defining a
13 physicist, that we would not -- you know, do we need to define
14 a teletherapy physicist, an HDR physicist, gamma stereotactic?
15 You know, do we want to get at that level of wordiness and
16 definition space, or can we just say "physicist for the
17 modality."

18 So whatever and wherever we end up on those
19 particular items, you'd have to make the corresponding change
20 here. But that was an item that has been brought to our
21 attention.

22 CHAIRMAN STITT: Okay. Good comment. Any other
23 commentary on the bullets that are in front of us?

24 MEMBER NEMP: I think it's pretty good.
25 Simplified, but it's the same.

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1 CHAIRMAN STITT: Do we want to go as far as
2 making a motion? This is fairly --

3 MEMBER GRAHAM: We have one on the table.

4 CHAIRMAN STITT: That's true. I'm sorry. We --

5 MEMBER WILLIAMSON: That was to turn to page 7,
6 right?

7 (Laughter.)

8 CHAIRMAN STITT: We have a motion to turn to page
9 7. Right. It was a little -- it was more eloquent. It was
10 more eloquently stated than that. Dennis, give us your --

11 MEMBER SWANSON: I recommend that under option 2
12 we replace Sections A and B with the draft rule language that
13 appears under alternative 4, A through D, plus an additional
14 statement E that would include, "Membership must reflect the
15 scope of operations respective to the use of byproduct
16 materials within the institution, and include the radiation
17 safety officer and a representative of management other than
18 the radiation safety officer," which is the standard wording.

19 CHAIRMAN STITT: Okay.

20 MEMBER WAGNER: Second.

21 CHAIRMAN STITT: All right. So that was the
22 motion. It has been seconded. We have had some discussion.
23 Go ahead.

24 MS. McBURNEY: Would you still have the
25 introductory statement in 2, but changing the wording to

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1 reflect, "Each medical institution licensee shall establish a
2 radiation safety committee to oversee the use of byproduct
3 material, with the exception of institutional licensees that
4 use only diagnostic and low dose and then seal"?

5 CHAIRMAN STITT: Yes. That was the first motion
6 that we voted on, so that's still -- that's intact. Now we're
7 just discussing the text, the draft rule text.

8 Everybody ready? More comments? John?

9 MEMBER GRAHAM: Well, I think the only comment
10 for the record is that with the motion that we're about to
11 vote on, there clearly is a committee stating that there is no
12 need for a prescriptive rule on a quorum, or how often that
13 committee is meeting, or how they are maintaining records.

14 CHAIRMAN STITT: And the record should show all
15 of these people are shaking their heads up and down.

16 (Laughter.)

17 They're too tired to speak up.

18 All right. That's in the minutes. All right.

19 Let's vote on this.

20 DR. SIEGEL: You are, in a way, saying that the
21 committee has to meet at least annually, because option D
22 says, "Review annually, with the assistance of the RSO, the
23 radiation safety program."

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1 CHAIRMAN STITT: I suspect John, in his axing of
2 hospital committees, if you're committee didn't meet annually,
3 you would be on the list to be axed. So --

4 Any other comments? All right. Let's vote.

5 Those in favor of this recommendation, including
6 the additional proviso that reflected composition, raise your
7 hands.

8 Those opposed?

9 We are on a roll.

10 Now we are at the free association part of the
11 meeting, because we're an hour and a half ahead of time.

12 Here's what the plan is. We're going to turn to
13 tomorrow, 4:15. We're going to start with the University of
14 Cincinnati. I'm hoping that radiopharmacy guidance and
15 carbon-14, which are supposedly being in preparation somewhere
16 upstairs, may be able to float down here.

17 There is a suggestion we could start on training
18 and experience, but the cardiologist is gone for the
19 afternoon. He will be back tomorrow morning. There is going
20 to be a lot of discussion on patient notification. We have to
21 discuss definition of reportable events, and I think that is
22 going to take a fair amount of -- either one of those alone is
23 going to take some time. Well, at least reportable events
24 are.

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1 So we've got a fair amount of material that I
2 think we ought to keep using until at least 5:00 today,
3 because we really break down and get tired when tomorrow gets
4 here.

5 MEMBER NELP: We could discuss training and
6 experience with the exception of nuclear cardiology, which is
7 sort of a -- but there is a lot of other material there to
8 discuss. And then Manny -- we could save that segment perhaps
9 for when he returns tomorrow.

10 CHAIRMAN STITT: I think anything we can get
11 started on today is going to be a help.

12 MS. HANEY: -- the radiation safety officer
13 aspect of that package. The package you have has several
14 pages of training and experience for the authorized user, and
15 then you go ahead and interpret the experience for the RSO.
16 So maybe we, again, can start on that. We will have copies of
17 the viewgraphs made for you. But that, like you said, we
18 could at least do some preliminary discussions on.

19 DR. ALZARAKI: What about the University of
20 Cincinnati?

21 MS. HANEY: That's what I'm doing now.

22 DR. ALZARAKI: Oh, that's what you're doing now.
23 Okay.

24 CHAIRMAN STITT: Do we have handouts on that, or
25 is that --

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1 MS. HANEY: Well, I'll have handouts for you.
2 I'll have them available for you.

3 Also, I didn't get the opportunity to study up on
4 this subject, so you'll have to bear with me.

5 CHAIRMAN STITT: We'll learn with you.

6 MS. HANEY: We'll learn --

7 CHAIRMAN STITT: This is all new to us, too.

8 MS. HANEY: All right. And I can't get -- I
9 tried to move this up. We can't do it.

10 All right. Let me go ahead. Basically, this
11 started back in 1996 when NRC received a petition from the
12 University of Cincinnati. They asked that we amend 20.1301,
13 which is the dose limits for the public, to authorize that
14 specified visitors of hospitalized therapy patients that are
15 currently considered members of the public be allowed to have
16 their dose limits go up to 500 millirem. This was really
17 intended for individuals that would provide support, direct
18 support/comfort to the patients.

19 We noticed that receipt of the petition in the
20 Federal Register and asked for comments on it. Then, their
21 next step was to prepare a draft rulemaking plan. This was
22 forwarded to the agreement states for their review and
23 comment, which is along with our standard for how we address
24 petitions.

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1 There were revisions made to this plan, and it
2 was forwarded to the Commission for their approval in August
3 of last year.

4 The proposed rulemaking plan -- these were the
5 elements that were listed that would allow an authorized user
6 physician the discretion to permit consenting adult family
7 members to receive up to 500 millirem annually from exposure
8 to the patients. We would then have to amend 35.315 and
9 35.415 to require licensees to obtain and document voluntary
10 informed consent from the family members if they would be
11 going over 100.

12 The licensees would be required to provide ALARA
13 guidance to these visitors, and then we'd amend 20.1003 to
14 include a definition of a family member.

15 Some of those things changed, so don't get too --
16 don't focus too much on what is up there. You've got to wait
17 until the last two slides.

18 Okay. The Commission approved the rulemaking
19 plan, and we just recently received this. And they asked in
20 the proposed rule that would go out that we would justify, on
21 a public health and safety basis, the requirement for the
22 licensee documentation that the family members provide
23 informed consent to receive up to the 500 millirem and that
24 they receive the ALARA instructions.

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1 They said that any of the recordkeeping
2 requirements needed to be discussed in the Federal Register.
3 And the third one, we should coordinate with ACMUI to draft a
4 plain English informed consent form, some of why we're here,
5 but you may not need to do that. And that they also wanted us
6 to make a very clear statement in the Federal Register notice
7 that it may be possible for some individuals to receive up to
8 one rem exposure under this.

9 The thinking there is that more than likely, the
10 primary caregiver, after the patient is released from the
11 hospital, who can now get 500, is going to be the same person
12 that is going to be the specified visitor in the hospital;
13 and, therefore, they get another 500, and you add 500 and 500
14 and you get 1,000.

15 Okay. Here is what staff is proposing to -- how
16 to address the Commission's direction. We propose eliminating
17 the licensee's requirement to document the informed consent
18 and the ALARA guidance. We felt that it would impose an
19 unnecessary burden and cost upon the licensee, and that it
20 can't be sufficiently justified on the basis of health and
21 safety.

22 Then we would revise Sections 1301, 315, and 415
23 -- and I have the rule language for you -- and then we would
24 add in the Federal Register notice about the one rem.

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1 Okay. 1301 would be revised to indicate that if
2 an authorized user determines that it's appropriate in
3 accordance with Part 35, the authorized user may permit a
4 radiation dose up to .5 rem.

5 And then, in 315 and 415 -- it would be good if I
6 can get these up there -- just add the statements that on a
7 case-by-case basis, with the approval of the authorized user
8 and in consultation with the radiation safety officer, the 500
9 millirem.

10 So I bring this to you as a status report, but
11 also from the standpoint of looking -- this is -- you're the
12 first group that has seen this rule language. This was
13 developed I think on Wednesday morning. So it's a very good
14 time now for you to make comments on it from the standpoint of
15 rule language or a decision to not go ahead with the informed
16 consent and the documentation of that, and any other items
17 that would be associated with this.

18 MEMBER NEMP: I'd like to make a comment.

19 MS. HANEY: Oh. And let me add one more thing
20 before you open it up. We recognize that this is a revision
21 to Part 35, and at the same time we have this major revision
22 to Part 35 going on. But the Commission direction was such
23 that we would move ahead with this rulemaking, so there was a
24 decision made to go forward with this.

25 CHAIRMAN STITT: Wil?

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1 MEMBER NELP: I've been very heavily involved
2 with the ethics and principles of informed consent over the
3 years in other areas at our university. And I think your
4 recommendations that it not be a requirement in writing are
5 excellent.

6 MS. HANEY: Okay.

7 MEMBER NELP: What you've recommended there I
8 think is very reasonable.

9 MS. HANEY: Okay.

10 CHAIRMAN STITT: Other comments from the crowd
11 that is familiar with this? Naomi?

12 DR. ALZARAKI: Well, I think the whole thing is
13 very reasonable. I think it should be done.

14 CHAIRMAN STITT: It's getting scary.

15 (Laughter.)

16 Dan?

17 MEMBER FLYNN: I can remember we had a few low
18 dose rate gynecology brachytherapy cases, and the dose rate of
19 the meter could be 30 milliremkins an hour, or .03. And then
20 you have these very elderly patients, you know, and the -- you
21 know, the husband who is 75 years old would like to spend time
22 with his wife. And these terrible restrictions, asking him to
23 be 20 feet away against the wall, it just seems bizarre for a
24 75-year old man not to be able to get a few hundred millirem

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1 if the need be, you know? Because there is no harm or danger
2 to that individual.

3 CHAIRMAN STITT: Barry?

4 DR. SIEGEL: The only thing I am not sure about
5 is why the after-consultation with the RSO is a condition of
6 this. If we believe that the authorized user has the
7 radiation safety training necessary to administer 35.300 and
8 35.400 things, why does the RSO have to be in the loop? It's
9 just one more bureaucratic complication of a medically
10 sensible rule. So I'd recommend deleting that phrase.

11 MEMBER FLYNN: I would also, because the -- in
12 some institutions the RSO is not a physician. I think this is
13 really a medical judgment here and not about a specific
14 individual case.

15 CHAIRMAN STITT: John?

16 MEMBER GRAHAM: I think we can formalize this and
17 summarize the discussion. I'd recommend that the ACMUI
18 recommend the adoption of the rule as proposed with the
19 revision to 315 and 415, removing the requirement for
20 consultation with the radiation safety officer.

21 MEMBER NELP: Amen.

22 CHAIRMAN STITT: Was an amen the same as a
23 second?

24 (Laughter.)

25 Discussion? Dennis?

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1 MEMBER SWANSON: The only reason why I could see
2 that would be there on a practical basis is because the
3 radiation safety officer is typically the person that monitors
4 dose rates, okay, and would set the time limitations. At
5 least that's the way it is in our institution. So, you know,
6 I think in reality that is what takes place. I can see why
7 you might want to take it out, but --

8 CHAIRMAN STITT: Ruth and then Jeff.

9 MS. McBURNEY: Also, what is the entry to 35.315?
10 Who is authorizing the case by case?

11 DR. SIEGEL: The licensee.

12 MS. HANEY: The licensee is theoretically
13 authorizing it, but it is really being done by the authorized
14 user.

15 MS. McBURNEY: Okay. So, I mean, there if the
16 licensee is authorizing that, I would think that the radiation
17 safety officer would need to be involved, and also, to help
18 verify the dose to those members of the public and visitors.

19 MEMBER NELP: I'm going to comment on that. You
20 do have to keep a -- if you release these people, you do have
21 to make a record of it. You have to make a notation of it.
22 And on a case in point, I will monitor these patients myself
23 if the RSO isn't immediately available. It's just much more
24 convenient.

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1 And I think to make them beat the individual
2 isn't necessary. I think the licensee is capable of doing
3 monitoring. I'm quite sure he would be.

4 CHAIRMAN STITT: Lou and then Jeff.

5 MEMBER WAGNER: I think the offensive word here
6 is the approval. We have a --

7 (Laughter.)

8 I think the approval is the word that is the
9 difficulty. So now you can advise the RSO. I don't care. Go
10 ahead and advise the RSO that you are doing this, but you
11 don't have to seek approval from the RSO.

12 DR. SIEGEL: It doesn't say that.

13 MS. HANEY: No, it's approval of the authorized
14 user after the authorized user has consulted with the RSO.

15 MEMBER WAGNER: I'm sorry. I misread that.

16 DR. SIEGEL: But if the RSO says no, what
17 happens?

18 MS. HANEY: It doesn't happen. I mean, you can't
19 allow the person to get 500, the way it's worded now.

20 DR. SIEGEL: And so do we really want the RSO to
21 be able to overrule the physician's judgment that the dose
22 will be within the prescribed limit and that it's appropriate
23 for this adult visitor to be with that patient?

24 CHAIRMAN STITT: Jeff and then Naomi.

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1 MEMBER WILLIAMSON: What was the rulewriter's
2 motivation for including this qualification in here, Cathy?

3 MS. HANEY: Really for the same reasons I think
4 Dennis brought up and -- or at least I heard a little bit of.
5 It's just that the radiation safety officer would bring to the
6 decision process some of the radiation safety aspects that the
7 authorized user may not be keying in on.

8 I can tell you that it was not a "must be in
9 there." There was not a lot of discussion on including it, so
10 I think if the committee wanted it excluded there would be a
11 very good chance that it could come out. This was -- you
12 know, strawman language went up.

13 MEMBER WILLIAMSON: It seems very paternal. Let
14 me put it that way. You make the presumption that, you know,
15 if it's not exactly specified how to do it in the regulation
16 that the authorized user will behave in an irresponsible
17 fashion. So I think that, you know, the law is there and the
18 institution should have the flexibility to figure out how to
19 follow it.

20 CHAIRMAN STITT: Right.

21 Naomi, you had a --

22 DR. ALZARAKI: Yes. Since we have a definite
23 dose limit there, I would hope that we wouldn't require the
24 institution to be badging people for this, and I was just
25 wondering whether it shouldn't, instead of being a definite

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1 limit, say approximately or something like that. Just because
2 I don't -- you know, it's a legal requirement here, and if
3 they start badging people and going to that expense, in terms
4 of the interpretation, in terms of enforcement, how this will
5 be read.

6 MS. HANEY: I think it would be read that the
7 licensee would not have to badge, but the licensee would be
8 able to have some type of program or procedure or something in
9 place that they could show that they have made a decision
10 that, you know, this person has not received greater than 500.

11 It would be very unlikely that we would put
12 approximate 500. We usually go -- you know, we go for a
13 number in the rule. But the licensee would have the
14 flexibility of meeting this. I would expect that when the
15 statements of consideration get written for the rule that it
16 would bring up those things that I just said that the licensee
17 would -- you know, it's up to the licensee to set a program.

18 And when an inspector came out, they would
19 probably say, you know, "Are you allowing visitors to come up
20 to 500?" You know, "What is your -- how is this individual
21 specified? And how are you making sure that they stay under
22 500?" And then they would stop at that point.

23 CHAIRMAN STITT: Dan?

24 MEMBER FLYNN: Are we talking other than low dose
25 rate brachytherapy patients who were admitted to a hospital?

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1 Is there someone else that we're talking about? I've had 131
2 cases admitted to a hospital.

3 Well, you know, what happens is what is posted on
4 the door, because I do it -- you know, the dose rate at two
5 feet, the dose rate at a meter, the dose rate at the doorway.
6 You still have those things posted.

7 MS. HANEY: Right.

8 MEMBER FLYNN: That doesn't change that. But for
9 that specific case-by-case basis, you say, "Mr. Smith, you can
10 stay there and hold your wife's hand for two hours," but it
11 can't be more than eight hours in a day or for the time, you
12 know. You give the time limit. It's going to be 30 --
13 whatever the dose rate is at three feet, you just tell him how
14 long he can be there. I mean, that's what we do with
15 everybody else.

16 You don't badge everybody. You note the dose
17 with a geigercounter, and you measure what the dose rate is at
18 two feet and at one meter, at the bedside and at one meter,
19 and then you -- that's posted and you advise the -- the nurses
20 have training. You just multiply the dose rate times the
21 hours, what your limit is. You know, that's all you need to
22 do.

23 CHAIRMAN STITT: Any other comments? Lou?

24 MEMBER WAGNER: I'd just like to finalize on
25 this. I commend the NRC for coming up with such a sensible

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1 rule that is non-prescriptive and is really getting to the
2 point. I can only request, and my personal opinion would be
3 it really is unnecessary to have the after-consultation with
4 the radiation safety officer. And I would recommend that it
5 would be even better if that were removed.

6 MEMBER GRAHAM: That's part of the motion on the
7 floor.

8 CHAIRMAN STITT: So let's vote.

9 All those in favor -- do we want to repeat the
10 motion? It was to accept with --

11 MEMBER GRAHAM: With the amendment that it would
12 delete clause under 315 and 415, with after-consultation with
13 the radiation safety officer.

14 CHAIRMAN STITT: Okay. Those in favor, raise
15 your hand.

16 Those opposed?

17 We're doing well.

18 Are you able to go on?

19 MS. HANEY: I will try radiopharmacy, with the
20 understanding that if there are questions that I cannot answer
21 that we'll -- I'll get those for you tomorrow.

22 As most of you are aware, there were three guides
23 that went out relative to the radiopharmacy rule. They went
24 out in the March time period. The comment period is closing

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1 in the very near future. On that, we have received some
2 comments on it -- on the documents.

3 Our plan is to -- obviously, to review all of the
4 comments, we'll need to address them, and we'll move forward
5 to finalizing the guides. We are hoping in the November
6 timeframe to have a meeting with the organizations, the
7 appropriate organizations that were involved with commenting
8 and development of the reg. guides, where we would bring out
9 some of the issues and concerns in finalizing the document.

10 The document would probably -- that meeting would
11 not take place until the November timeframe, and then we would
12 be working toward finalizing the document. It would probably
13 be in early -- in spring of next year is probably what I would
14 guess at this point, as far as final documents being out.

15 We are running into some concerns, because some
16 of the items in these reg. guides -- in the reg. guides were
17 merely -- the reg. guides in the one case, that was an
18 Appendix to 10.8. There are some things in there that are
19 very specific and tied to Part 35 revision that we're doing
20 right now.

21 So we may not be able to do all of the changes
22 that some of the individuals wanted, the commenters wanted,
23 made now in light of what is going on in 35, and with the
24 guidance development going on there because it would be --
25 we'd be coming out with one thing, and then the rule is going

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1 to be changing right away, and we'd be getting in. So we may
2 not be able to address all of those comments.

3 That's where we are. And as I said, I mean, if
4 you have specific questions, I'll try to answer them.

5 CHAIRMAN STITT: Go ahead. Dennis? Naomi?

6 MEMBER SWANSON: No. I think that my concerns,
7 and I think the concern of the nuclear pharmacy community, is
8 that there are several problems with the guidance document as
9 written. We have repeatedly been offered the opportunity to
10 meet with the NRC to discuss those problems, and I think that
11 is what we're looking for at this point in time is the
12 opportunity to meet with the NRC to discuss this problem.

13 MS. HANEY: Okay. Actually, they are in my
14 viewgraphs, so let me see if I -- how well I covered
15 everything I was supposed to say.

16 Okay. I covered everything.

17 (Laughter.)

18 My staff can brief me very well.

19 CHAIRMAN STITT: Any other comments to Cathy from
20 the nuclear pharmacy group, nuclear medicine group area?
21 Okay.

22 MS. HANEY: Let me go ahead with the C-14.

23 CHAIRMAN STITT: All right.

24 MS. HANEY: We spent I think a considerable
25 amount of time at the last meeting discussing this. The

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1 proposed rule was published on June 16, 1997. The comment
2 period ended on July 16th. Right now we are resolving those
3 comments. I do not think we received very many comments on
4 the particular -- the proposed rule.

5 The document right now is on its way to the
6 Commission for final blessing, and at that point it will be
7 published for a final rule.

8 Good enough?

9 CHAIRMAN STITT: Comments to Cathy? Dennis?

10 MEMBER SWANSON: I think one of the main comments
11 that I've heard regarding that rule dealt with there are
12 provisions in that rule that addressed modification of that
13 capsule for research purposes that basically prohibited use of
14 the C-14 urea in any other dosage form other than the capsule.
15 Okay? And there was concern because now we're back into, you
16 know, restricting the practice of medicine and practice of
17 pharmacy as to what might be done with that particular agent.

18 Now I'm guessing -- and correct me if I'm wrong
19 -- that the reason for that is because this addresses exempt
20 distribution to general licensees.

21 MS. HANEY: Correct.

22 MEMBER SWANSON: And personally speaking, I'm not
23 sure I want general licensees to be modifying those capsules.
24 Is that -- I think that that's --

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1 DR. SIEGEL: But, in fact, it's not really to any
2 individual, because it's a legend drug which means that you
3 need a prescription to get it in the United States.

4 MS. HANEY: Right.

5 DR. SIEGEL: So you didn't have to put that in
6 your rule, but that is, in fact, what will happen.

7 Isn't there a provision, though, that says that
8 if you are going to use the capsule, if the individual is
9 going to use the capsule for research, then the individual has
10 to be a Part 35 licensee?

11 MS. HANEY: Right. And it would fall under 35.6.

12 MEMBER SWANSON: And I wasn't totally sure I
13 understood why you said that -- I mean, why a
14 gastroenterologist who was doing a study of the treatment of
15 ulcer disease couldn't use this tool as part of his research
16 in his office if he chose to conduct that research.

17 I wasn't sure where that came from, because the
18 risk certainly isn't any higher when it's used in the research
19 mode, as it exists, than it would be used in the clinical
20 mode.

21 MS. HANEY: Donna-Beth, can you -- this is what
22 -- you know, I was not prepared to do this today.

23 DR. HOWE: Since we haven't seen the Commission's
24 approval on it yet, we don't know exactly what the statements
25 of consideration will say in that particular area. But right

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1 now, the statements of consideration say that in order to --
2 because it comes under research, in order to protect the human
3 subject certain basic rights, then it would have to come under
4 35.6, and that is not based on risk, nor did the health and
5 human services regulations, uniform regulations on protection
6 of human subjects base it on risk.

7 There was a comment on the health and human
8 service uniform policy that said it should be based on risk,
9 but they did not adopt that comment. They did not respond to
10 it. It is independent of risk.

11 DR. SIEGEL: There is no problem with that.
12 Nothing in allowing the distribution of one microcurie C-14
13 capsules relieves the end user from requirements with the
14 uniform federal policy on human subject proportion. That
15 would be my spin on it.

16 DR. HOWE: That's true.

17 DR. SIEGEL: And since the people you're
18 releasing it to aren't your licensees, they are not really
19 bound by any further regulations from the NRC anyway.

20 MEMBER SWANSON: They're held to a different set
21 of regulations.

22 DR. SIEGEL: They're held to a different set of
23 regulations by a different standard altogether, not really
24 linked to the -- once that capsule leaves -- if I understand

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1 it, once that capsule leaves the manufacturer, it is out of
2 NRC purview at that point.

3 DR. HOWE: It is the same as a smoke detector.
4 As long as the smoke detector is being used as a smoke
5 detector, it is under exempt distribution. If the smoke
6 detector were taken apart, and the source put into something
7 else or used for some other purpose, then it would no longer
8 be exempt distribution.

9 So the capsule is for diagnostic test and not for
10 research. If it were to be used for research, it would then
11 come under 35. We haven't seen the final Commission decision
12 on that comment.

13 MEMBER SWANSON: Certainly, if anybody was
14 intending to use it in research where they were going to
15 modify the capsule or the dosage form, okay, I would want that
16 to be governed under Part 35. However, if somebody is just
17 going to use that capsule in the current dosage form as part
18 of the research study, okay, it ought not have to come under
19 Part 35. It is a prescription drug, I think is basically what
20 we're saying.

21 DR. HOWE: But it will come under Part 35 because
22 of 35.6, and that there are --

23 MEMBER SWANSON: But we're saying it's not
24 appropriate.

25 DR. HOWE: -- protections under --

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1 MEMBER SWANSON: Okay.

2 MS. HANEY: Dennis, if we can -- maybe we can,
3 you know, do some more research between now and tomorrow. If
4 we can find out something that would help provide a better
5 reason for you, we'll let you know tomorrow, if that would be
6 okay.

7 MEMBER SWANSON: Okay. But I think you need to
8 understand that that person using that capsule and that dosage
9 form in research, you know, the obligations of that research
10 project are covered by another set of regulations. Okay. You
11 don't need to codify that in your regulations. I think, in
12 fact, that codification is inappropriate.

13 MS. HANEY: Okay. We'll take that under
14 advisement, and we'll also look and see what we can find out
15 between now and tomorrow.

16 I guess the last topic that was under 4:15
17 tomorrow was the discussion on Part 33 rulemaking. And when I
18 gave you the status this morning on your previous
19 recommendations I covered that, so I don't think I need to go
20 back over that, unless you have specific questions.

21 CHAIRMAN STITT: Good. I think we've taken care
22 of the 4:15 to 5:00 slot.

23 We've got an hour left. I want to use it for
24 something. There are a couple of possibilities. I think we

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1 can't be as formal, but we could start discussion of training
2 and experience. That's a very hot topic.

3 There's another thing on my mind which we could
4 do. It has to do with the handout. I got it by e-mail
5 yesterday, and then there is a handout threshold of reportable
6 events. We could at least discuss reportable/recordable. We
7 could discuss these definitions -- the old misadministration
8 -- and not start making motions and recommendations, but there
9 is going to be some need to at least get up to the same level
10 of discussion.

11 Jeff is nodding his head. That's about all it is
12 going to take for me to want to pursue this, quite frankly.

13 MEMBER NELP: Is that the 12:30 topic?

14 CHAIRMAN STITT: This is the 12:30 topic. What I
15 would like to do -- and, Cathy, I don't know if you -- I don't
16 want to put you on the spot, but if you can -- you seem to be
17 able to help lead us into discussions. Would you look at
18 recommendations for threshold of reportable events? I don't
19 want to start identifying those alternatives that we like or
20 don't like, because we'll have to do that. There is a member
21 of the public who will be here tomorrow, but I think we need
22 to be saying similar things to one another.

23 As to our level of understanding, the status quo
24 recordable/status quote reportable, which was referred to as a
25 misadministration still is. We had one last week.

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1 Wait a minute. I flagged it here. Another
2 option is raising these thresholds to the level of NRC
3 abnormal occurrence in reporting criteria. That's a whole
4 different set of topics -- well, not topics, but of
5 thresholds. So unless somebody boos me and pulls me off the
6 stage, I'd like to at least get us talking about what these
7 numbers are, what your feelings are, so then we can start
8 looking at the alternatives tomorrow.

9 Jeff, you and I agreed, let's do it. All right.

10 Cathy, do you want to try to introduce the
11 subjects?

12 MS. HANEY: This is going to give me a free night
13 tonight, because now I don't have to study for my presentation
14 tomorrow.

15 CHAIRMAN STITT: There you go. Well, I think
16 this will help us at least start to hone in on the
17 alternatives, if we can have this discussion now.

18 MS. HANEY: Well, let me tell you what got us to
19 this point. I went to the first working group meeting in
20 August. This paper was not developed. When we got to the
21 steering group point and we started talking about patient
22 notification, we started to -- we really got into the point
23 of, well, the notification issue is so closely tied to what is
24 the reporting threshold and the recording threshold that we
25 need to start looking at this.

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1 Also, from Don Cool having done some
2 presentations to the professional societies where he was able
3 to, on a cursory level, start talking about what the different
4 alternatives were, again, he was getting asked questions like,
5 well, what is the threshold for reporting? In other words,
6 you know, at what point do I need to be concerned about
7 telling you different things?

8 The other thing that was driving this in coming
9 up with alternatives was the SRM again. It said that we
10 should come up with a way to identify precursor events, and I
11 probably -- I don't have here the exact quote from the SRM for
12 you, but it's back at my desk. I'll get that -- I mean, back
13 at my seat. I can get that for you.

14 So we were trying to somehow come up with a way
15 of capturing these precursor events. When the working group
16 sat down to do it, we first -- we came up with a term for
17 discussing these precursor events that went something along
18 the line of, if there is anything else you think we ought to
19 know, then tell us. And that wasn't going to work in
20 regulatory space.

21 (Laughter.)

22 So at that point we said, well, you know, we've
23 got a week and a half until the ACMUI meeting. We have to get
24 this out of here, so why don't we put forth what our intent is
25 to capture, and then have you help us develop what the exact

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1 rule language would be for -- or not the exact rule, but a
2 strawman rule language for what is this precursor event and
3 what we're trying to get at.

4 That is really what this note 2 is directed at,
5 and it's probably worthwhile taking a minute or two to read
6 this note 2, because this is what we're looking for as far as
7 the precursors go.

8 Again, as with QM, it was being taken as a given
9 that we needed to identify precursor events, and that's why,
10 through all five of these alternatives, you will note that we
11 have precursor event in there.

12 The alternatives that we came up with for the
13 status quo plus the precursor -- status quo meaning that you
14 keep the current definition for misadministration and you keep
15 the current definition for recordable event. Those currently
16 appear in the definitions of Part 35.

17 The thinking is that no matter how we end up
18 defining these terms, coming out with these thresholds, they
19 probably will no longer appear in the definition because they
20 don't -- it's not really appropriate to have them in the
21 definition section. We will probably end up throwing them
22 back into some type of rule text, with a reference from the
23 definitions section, back to the rule text. But again, that's
24 three or four months down the line.

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1 The next alternative that we came up with is that
2 we would raise the reportable to the AO criteria, and then
3 still have that precursor in there. The AO criteria, if you
4 look on page -- I guess the best place to see that is on page
5 7. I want to make sure I get you to the right -- yes, page 7
6 at the bottom, A and B. The reason for going to that is it's
7 a dose base, and trying to get into a dose base space there.

8 We would still keep the recordable, but we would
9 raise the recordable to the current reportable level, or, in
10 other words, the current level for misadministrations.

11 The third alternative gets rid of recordable
12 events and just has the reportable at the AO criteria.

13 The fourth one is to -- that the reportable would
14 be lowered to the recordable. This gets very confusing.

15 (Laughter.)

16 It was very hard at the working group level, and
17 from listening to myself now it is even still confusing.

18 But in other words, four is a lowering of the
19 current threshold, is what it really means.

20 Five is a combination of, you know, pick 1, 2, 3,
21 or 4, but rather than having a requirement for the reporting
22 of these voluntary -- for the reporting of the precursors,
23 there would be a voluntary reporting of precursors, and we
24 would, at that point, be looking to some of the other federal
25 agencies where there is voluntary reporting to see how it is.

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1 And I think -- if you will give me a second, I
2 think in order to evaluate this I do need to read the page
3 from the SRM for you.

4 Okay. What I'm going back to is under the SRM on
5 DSI-7. It's under your tab on update or revision of Part 35.
6 Item 3 -- and this is very key to this presentation -- is that
7 the staff should address how best to capture not only relevant
8 safety significant events, but also precursor events. And
9 that -- so during your deliberations on this, the bottom line
10 is we need to be able to capture some of these precursor
11 events, and that's why it appears throughout this whole
12 document.

13 The other thing to keep in mind in reviewing this
14 is that we have a requirement to report to Congress AOs. So
15 you can almost take the AO threshold as the highest level.
16 That's a fixed level at this point with Congress, so that's
17 your high. And then your low point is that we need to be able
18 to capture the precursor events.

19 And with that, I'll just open it up to
20 discussion.

21 CHAIRMAN STITT: Cathy, let me hone in on that
22 and just ask you a question. Because the QMP supposedly had
23 as one of its interests precursor events, but that seemed to
24 -- precursors were supposedly to be picked up by a certain
25 threshold that if you exceeded was reported, and, therefore,

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1 could identify precursors, and that doesn't seem to work at
2 all. How would this be different in identifying precursors?

3 MS. HANEY: Well, I guess let me say, first of
4 all, the concept of these thresholds would come into play in
5 several places in the rule. It might go back in -- however a
6 QMP ends up being -- you know, there may be a touch on these
7 reportable/recordable, using the new definition in that rule
8 text. It would also come about in patient notification. Do
9 you notify the patient at recordable/reportable? So this
10 subject has -- touches several aspects of Part 35.

11 As far as -- I think what you're saying is since
12 QMP didn't capture precursor events, what makes us think that
13 this will? Is that pretty much --

14 CHAIRMAN STITT: That's the short way of putting
15 it, yes.

16 MS. HANEY: Okay. I think we're recognizing that
17 QMP didn't capture precursor. The Commission has said,
18 "Staff, go out and capture these precursor events," and now
19 we're trying to come up with a way of doing that. And that is
20 what gets us back to where I said we started out trying to
21 define precursor and we couldn't get there.

22 CHAIRMAN STITT: Well, let me throw something out
23 about that, and then I would be interested to hear opinions.
24 As you probably know, my institution is doing a fair amount of

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1 research on human factors, human error, and precursor events,
2 and it's usually a research topic.

3 One of my concerns, and certainly my question, is
4 is this something that can be identified in a standard
5 practice? I mean, just in the practice of medicine, the
6 procedural aspects that institutions would even understand are
7 precursors to something that is eventually going to -- might
8 happen or might be caught as a near miss and then corrected.

9 My concern is that this is easily a research
10 topic. I don't know if it lends itself, at least through any
11 of the measurements that we have, to identifying this in the
12 routine course of practice. I'm not sure if we can get
13 precursor data through any type of regulatory process.

14 Dennis and then Jeff?

15 MEMBER SWANSON: Is it possible to address this
16 through a performance-based requirement, something along the
17 lines that the licensee shall establish policies and
18 procedures for reporting and evaluating precursor events, and
19 then allow them to come up with their internal policies and
20 procedures? And would that meet the NRC's requirement in that
21 you would have access to this information through your
22 inspection process?

23 In other words -- let me give you an example. I
24 mean, you know, we have policies and procedures in our
25 institution where we -- you know, we record and evaluate any

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1 -- where we exceed the dose of a radiopharmaceutical, a
2 diagnostic agent, by more than 10 percent, because we consider
3 that the standard of practice, plus or minus 10 percent.
4 Okay? Can we leave some flexibility for the institution to
5 develop their own policies and procedures for capturing these
6 events?

7 MS. HANEY: I think we can leave some
8 flexibility. However, we need a certain amount of uniformity
9 across licensees. And without defining a precursor event, I
10 don't think you would have -- we would not have the assurance
11 that we were getting the uniformity that we need.

12 MEMBER SWANSON: The problem that you have in
13 defining precursor events, though, is, you know, you can
14 actually limit the information you get, which is what we've
15 seen from the past. Okay? And if your goal is to truly
16 evaluate these events for the purpose of, why did they happen
17 and what improvements, you don't want to limit the information
18 that you get. Okay? And I think that -- I've said it many
19 times. That was the problem with the previous reporting
20 program.

21 So there's kind of a tradeoff there I think in
22 what you're looking for and what the goals of this program is.

23 CHAIRMAN STITT: Jeff?

24 MEMBER WILLIAMSON: Yes. I guess I have a couple
25 of comments on this. I think the first is to amplify I think

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1 on what has just been said by Judy. It is kind of in a
2 research area, what the significance of these things are, and
3 I think there are several implications of that.

4 First of all, I don't know that it is possible at
5 this point to give an objective criterion so that any event X
6 is a precursor event, if and only if the following conditions
7 apply. You can characterize but not define, and use clinical
8 judgement to make an assessment of whether a given deviation
9 from the norm has potential for more -- under some slightly
10 different scenario for the possibility of an unsafe situation;
11 and, therefore, you know, requires some kind of corrective
12 action, or is of interest to others.

13 So I think, you know, there is going to be sort
14 of a level of fuzziness that you'll have to accept that we
15 deal with every day as clinicians. And if you're going to
16 sort of be like clinicians, you've got to kind of accept, you
17 know, the way the world is, I would argue.

18 Secondly, I am not clear what the -- you've got
19 this directive to create precursor events. Do you know why
20 you want the precursor events and what you're going to do with
21 them? Are you going to use this as sort of a method of meting
22 out more punitive actions and punishing licensees? Are you
23 just collecting the data for research? I think this is really
24 important.

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1 You should be addressing, in a clear fashion,
2 some perceived public health hazard. And, you know, the
3 purpose for -- you know, will dictate the method you use to
4 collect the data and what you do with it. And if you sort of
5 start out, well, we're just going to have precursor events,
6 you know, I think you understand what I'm getting at.

7 MS. HANEY: Let me read you two sentences from
8 the note at the bottom of the page that I think starts to get
9 at what you've asked -- that the requirement would be intended
10 to identify events, incidents, and situations which have
11 implications for that facility or implications for similar
12 facilities, generic incidents that may adversely affect the
13 dose to the patient or the public.

14 The objective of this requirement is to identify
15 information that would be useful to avoid potentially
16 significant problems and to improve the radiation safety
17 program at licensed facilities.

18 CHAIRMAN STITT: There are a couple of comments
19 down here. I just wanted to add, before I let this side talk,
20 that, again, as I remember several presentations about QMP, I
21 could swear that a variety of things that had to be documented
22 in the QMP had to do with a fishing expedition, that the NRC
23 was looking -- was going to look at all of the stuff that was
24 turned back in to see if there was something that maybe made a
25 picture, made a drawing or a diagram.

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1 Studying this as I do with a whole group of
2 people who are from all sorts of walks of life on our campus,
3 this is a very difficult topic, and I just am concerned that
4 it's another fishing expedition that is not very well defined
5 by those few groups of people in the country, where you've
6 even looked to people who you're spending a lot of money
7 contracting to. And they don't know what they're doing.

8 So it concerns me that we're turning it into a
9 regulation and asking people who are practicing medicine to
10 determine what precursor events are on what I view is another
11 fishing expedition.

12 Naomi?

13 DR. ALZARAKI: I presume, although I don't know
14 that it was -- I see it written anyway -- and maybe this is a
15 wrong presumption -- that we're talking about -- as reportable
16 events, we are applying this only to therapeutic procedures or
17 utilizations of radioactive iodine which exceed whatever the
18 threshold is -- 30 micro --

19 MS. HANEY: You have a combination of both there.
20 If you go with the status quo, you go a little bit -- you are
21 in that space of the therapeutic. If you go with the report
22 with -- that the AO criteria, since that is a dose based, if
23 you meant to administer a diagnostic dose, and instead you
24 administered a therapeutic dose, you could kick into this. So

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1 that is why I can't give you a definite yes or no to your
2 question.

3 DR. ALZARAKI: 2 and 3 would almost -- at least
4 by 3 definition -- yes, they both use the abnormal occurrence.

5 MS. HANEY: Yes. As long as you're using the AO
6 criteria, you are at a dose base, so it's not a
7 differentiation between diagnostic and therapeutic, although
8 it almost falls into that.

9 Now, in 2, where you do keep the option of
10 reportable and recordable, the recordable, when it becomes the
11 current misadministration, again, is still -- it is still the
12 big things like the therapy.

13 DR. ALZARAKI: Okay. Well, you know, taking that
14 into consideration and the discussion about whether this is a
15 large research project being conducted by NRC which is not
16 well spelled out and being financed by users, you know, I
17 think alternative 3 of the options we have makes the most
18 sense.

19 CHAIRMAN STITT: Barry, you had a comment?

20 DR. SIEGEL: Yes, two. One, in partial answer to
21 what you just said, Naomi, currently misadministration
22 reporting captures some, but a very tiny number, of diagnostic
23 misadministrations if those dose thresholds are exceed -- the
24 five rem EDE and the 50 rem organ -- and it almost never
25 happens. That's number 1.

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1 Number 2, I just now realized, Cathy, that
2 actually the way this is structured you have left out one
3 option. As much as I hate to say it, you've left out status
4 quo reportable/delete recordable, because you have that
5 parallel structure and all of the others --

6 MS. HANEY: Yes, that's true.

7 DR. SIEGEL: So you actually need a new number 2,
8 and then 2 would become 3, 3 would become 4, 4 would become 5,
9 and 5 would be alternatives 1, 2, 3, 4, or 5.

10 MEMBER NELP: Where are you reading from?

11 DR. SIEGEL: The voluntary report. I'm just
12 saying that --

13 MS. HANEY: But you're right. Yes, because that
14 gets back to this morning's discussion on whether we even need
15 the recordable --

16 DR. SIEGEL: Correct.

17 MS. HANEY: -- aspect.

18 Can I recognize Don?

19 CHAIRMAN STITT: Yes, you can.

20 MS. HANEY: Don?

21 MR. COOL: I wanted to try and address, for just
22 a moment, several of the things that have been said around the
23 table about how any of us got into the issue of precursor,
24 because I think perhaps understanding a little bit of the
25 context might help just a little bit.

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1 First of all, let me say, Dr. Stitt, that you may
2 well be right in terms of whether or not we are going fishing,
3 and whether or not, in fact, the type of fishing is actually
4 in terms of trolling, or wandering around hoping that we will
5 snag something with a long line off the back of the boat.

6 The historical background -- the Commission has
7 been interested in precursor events -- put that in your quotes
8 -- in all of its programs, as a general way of expressing that
9 from a regulatory standpoint, but more importantly from a how
10 can we improve overall performance within the community that
11 is regulated and for which we are held responsible by our
12 friends down on Capitol Hill, by seeing if there are ways to
13 identify things which didn't quite go bad enough wrong for us
14 to get called down on the Hill on the carpet, and which would
15 lead someone, maybe the same institution, maybe other
16 institutions or programs or activities, to look at and think
17 about whether or not the same sort of thing might go wrong
18 there, and, therefore, lead you to think about whether or not
19 you might want to do or change something within the program or
20 the way in which you conducted business, so as to avoid that.

21 The examples that tend to get tossed around when
22 you're in Commission meetings and discussions generally don't
23 come from the medical community. They are things like, well,
24 you know, once upon a time, such and such facility bulged a
25 UF6 cylinder. That really was a precursor to the fact that

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1 some other facility two years later did the exact same
2 scenario, except that they succeeded in rupturing the
3 cylinder. And had somebody sort of thought about that, then
4 maybe they wouldn't have gone and done the same sort of thing
5 by not weighing the cylinder, and, therefore, have avoided the
6 particular event.

7 The reason I think that it is, and probably
8 always would be to some extent, a fishing or a research
9 expedition is the very nature of the fact that a priori I
10 can't sit here, and I think what I'm hearing you say you can't
11 sit here, and write A, B, C, D, and E forms the explicit,
12 complete, universal set corresponding to precursor, all of the
13 possibilities that go wrong.

14 What the Commission has asked us to do is to
15 attempt to find ways to capture those things, and this is why
16 we wrote the note on the bottom here and why we are really not
17 so much in text space that we have alternatives, but rather
18 looking for your suggestions as to how to draft text that
19 might assist in having people understand that what we are
20 looking for is, in fact, things which would tell us that there
21 is something within the programs that other people would
22 benefit from knowing about.

23 And a priori I would have guessed that the
24 agency's approach to such data might be to publish an
25 information notice or put into the newsletter that thus and so

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1 happened and that people might want to be alert for similar
2 sorts of things, and see what sort of implication it has for
3 your program. Thank you very much. End of discussion.

4 Now, with that as background, I don't know
5 whether you can then come back and say, "But that's why, in
6 fact, you see things like voluntary reporting, and why you see
7 things like can you define a sort of generalized methodology
8 that would have people thinking in the same lines and being
9 alert to the same issues."

10 Quite frankly, I don't think the Commission was
11 necessarily thinking about a punitive detailed structure of
12 saying that identifying a precursor event threw you into
13 violation space. In fact, the whole point of this is not
14 necessarily to get in that mode, but rather to be able to
15 identify and to have someone else be able to do something
16 about it before you got into that kind of mode of operation.

17 CHAIRMAN STITT: A couple of comments, and then
18 I'll let the committee speak.

19 When devices have problems there is a reporting
20 mechanism through the FDA. Accelerators commonly end up on
21 that list, and some of that can be thought of as precursor.
22 What strikes me, both in my practice and also reading this, is
23 that over the past few years the things that have happened in
24 therapeutic radiology is the advent of remote afterloading,
25 both low dose rate and high dose rate, which is a mechanical,

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1 computerized -- it's got hardware, software -- infinitely more
2 procedural as far as various steps that certain people have to
3 coordinate. And it's one of the better models for looking at
4 precursors.

5 Low dose rate or manual remote afterloading is
6 probably at the far end of the spectrum and is why it makes it
7 very difficult to do precursor for that. And all you've got,
8 unless your source falls out of the bucket or the bucket falls
9 off, is basically sequences of human error.

10 So I think that with remote afterloading of all
11 dose rates with the stereotactic, because they are all
12 procedural and gizmo related, that those factors make
13 precursor research more possible.

14 Certainly, what I would like to recommend and
15 have the committee support me entirely on is lots of money
16 being given to my institution from your institution.

17 (Laughter.)

18 We have little bits of money that are coming that
19 way, but I think I'd like to see you make that motion and
20 everybody support that we continue our research.

21 All right. Let me open it up. Jeff had his hand
22 up.

23 MEMBER WILLIAMSON: Well, I think it's all fine
24 and well to collect such information and become a
25 clearinghouse for it and see if you can see a pattern. But I

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1 think if you are going to include it in Part 35, which is
2 regulatory space and potentially punitive if you, you know,
3 don't play along according to the proper tune, you should,
4 one, clarify explicitly this is not, you know, going to lead
5 to -- lead an institution into punishment space as you put it
6 for complying with the request. And secondly, it should be
7 voluntary. And thirdly, the criteria, since you accept that
8 they are inherently fuzzy given our level of knowledge of
9 human errors and factors analysis, you know, should explicitly
10 recognize the necessity to exercise clinical judgment in
11 identifying these events.

12 CHAIRMAN STITT: I'm going to go around the table
13 for any other comments along this line, and then I have one
14 final task this group has to do before we quit today.

15 Anybody else over here? You'll be next after
16 Dennis.

17 MEMBER SWANSON: You know, in listening to this,
18 my personal feelings about this is I think it's important to
19 report directly to the NRC events that meet the abnormal
20 occurrence threshold. I would also think it's important that
21 somewhere in -- you know, what I get concerned about is what
22 about the events between that threshold and unintended
23 deviations from whatever is planned.

24 I don't want institutions -- and there ought to
25 be something in the regulations that address the requirement

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1 for the institutions to look at those events, okay, and that's
2 what I'm getting back to is there probably ought to be some
3 performance requirement for them to look at those events as
4 part of their quality improvement program.

5 Again, let me emphasize, though, I wouldn't put
6 specific numbers on those. I would leave that up to them to
7 determine in their policies and procedures, and then I would
8 see a voluntary reporting of that information to the NRC.

9 CHAIRMAN STITT: Wil?

10 MEMBER NELP: I had a question to you. If I have
11 a reportable event, I fill out a form to report it to you that
12 -- you have made up the form that you've sent to me, is that
13 correct? You give me a method of reporting and you ask me to
14 fill out the blanks?

15 MR. COOL: The present process doesn't
16 necessarily have a form. The rule says that if you have X
17 type of event -- and right now it's expressed as percentages
18 plus or minus on the dose, then you need to call the
19 operations center within X number of hours and provide the
20 following kinds of information.

21 The fact of the matter is that my friends who are
22 on the fourth floor here in the operations center have a
23 little form and they're going to ask you the things so that
24 they can check out the little boxes and enter it into the
25 system.

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1 MEMBER NELP: So why wouldn't you say, "Thank
2 you, Dr. Nelp, for telling me about this. Now I'm going to
3 send you another form, and I'd like you to list -- answer
4 these questions and see if there are any things that led up to
5 this that we should be aware of, because we're compiling this
6 information."

7 There were precursor events, but the term is very
8 glitzy. It's an in word. If you go out to Walla Walla,
9 Washington, and ask physicians about their precursor events,
10 they're not going to know what the heck you're talking about.
11 Or they may think you're being rude.

12 (Laughter.)

13 I agree with Judith that we want to -- there are
14 simple ways of policy you can gather the information. But
15 let's keep it out of the regs. I think it should not be in
16 the regulations at all.

17 CHAIRMAN STITT: Rude or maybe even kinky.

18 MEMBER NELP: Kinky, yes.

19 CHAIRMAN STITT: All right. We'll say that
20 you're first in line on this side. Just this once.

21 DR. SIEGEL: Precursor events I think, having
22 discussed this previously with some members of the staff here,
23 I think if you try to define that in the regulations you're
24 going to go back to the other thing I used to joke about with
25 this -- operators are standing by -- because you're likely to

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1 have it so vague that people are going to be so confused about
2 what they have to report that you're either going to be buried
3 in paper or buried in phone calls.

4 And that is why I really strongly support a
5 voluntary reporting mechanism, which you don't even have to
6 take responsibility for. You could work out a deal with the
7 United States Pharmacopeia and let them be the clearinghouse
8 for your voluntary reports, much the same way that they are
9 for drug and device reports, those that are not -- the device
10 reports that are not mandatorily reported to the FDA.

11 That's a way to let people who have something
12 that occurred that is bothering them let people know and start
13 investigating it if they choose to. It is a very non-
14 judgmental mechanism. And frankly, based on the things that
15 I've seen the USP do with the data and what they transmit on
16 to the FDA, I think it has worked very, very effectively. And
17 so it could be completely out of Part 35 space and still
18 accomplish what the Commission wanted to accomplish. So
19 that's what I would argue for.

20 CHAIRMAN STITT: Good comment. Keep on going.

21 Andrew?

22 MEMBER KANG: Yes. I have just one comment, or
23 the question is that I -- I fully understand the NRC's deep
24 concern about the radiation safety in this precursor event.
25 But I am not sure that -- and precursor means, by definition,

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1 it is an event happening prior to a main event. Without that
2 main event happening, how do you define the precursor?

3 You know, again, all of the potential precursor
4 events doesn't necessarily lead to accidents. So again, it is
5 very vague terminology there, the precursor. We can say that
6 that is precursor, but it is very difficult to assess, even if
7 you collect all of the precursor event data.

8 So I think what I would think is more appropriate
9 is that when you collect any real incident report, then you
10 can -- may perhaps collect at the same time what the user
11 think that might have been happening prior to the incident.
12 Only you can collect the data when radioactivity event
13 happened. Then you can probably collect some precursor event.

14 CHAIRMAN STITT: John?

15 MEMBER GRAHAM: There have been a number of
16 comments that we should go on the record to recommend that the
17 collection of information on precursor events is a great,
18 good, and wonderful thing as long as it's kept on a voluntary
19 level. As I think we discussed at length in the April
20 meeting, the problem is that you cannot collect this
21 information. You cannot analyze this information without
22 committing resources to do just that.

23 And I don't know -- and from the tone of your
24 comments -- for the Nuclear Regulatory Commission to go out in
25 search of precursor events that might avoid a Three Mile

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1 Island accident, I understand that it wouldn't take me very
2 long to get to a very strong cost-benefit analysis of doing
3 that.

4 But at the level that we're talking, with the
5 millions of procedures that we're talking about, to come up
6 with a national database to try to track medical precursor
7 events that may or may not, after a litany of esoteric
8 research, result in a change in the system or procedure, I
9 would not recommend even a voluntary system moving forward if
10 it's going to have significant cost.

11 So I think the issue is that the staff has been
12 charged to address how to capture precursor events. Fine. I
13 think the staff could recommend a voluntary program and throw
14 the charge back on professional societies and groups that
15 already exist to identify the best, most effective way to
16 voluntarily review those activities. You can't do this -- and
17 the USP was discussed at length last time as a voluntary
18 program and is still the best model I think any of us have
19 heard of.

20 And I would go on record that I think we ought to
21 -- and as the other component, move towards option 3, which is
22 a reportable event is raised to the AO criteria.

23 CHAIRMAN STITT: I want to get to that in a
24 minute. It costs money to use the --

25 MEMBER GRAHAM: Nothing is free.

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1 MEMBER FLYNN: I just also believe that it should
2 be voluntary, and there is other ways to get at it, quite
3 frankly. For example, if someone had all of the minutes of
4 all of the radiation safety committees that have met say in
5 the last five years, you could read through minutes -- you
6 read through minutes. I have read through the minutes of
7 other hospitals. You come across incidents happening, things
8 that happen that they discuss during the meeting briefly.
9 It's not a reportable event. It's not a recordable event.
10 It's just something that someone brought up at the meeting.

11 And you'll find that things come up that could
12 have led to something that could have been a problem but it
13 was, you know, caught right away or something. It was taken
14 care of. Those would be, in my view, precursor events and
15 they -- you find them in the minutes of radiation safety
16 committee meetings.

17 The other thing that -- I think that anyone who
18 voluntarily reports has to understand that there is no
19 enforcement side to whatever this event was. So I think it
20 has to be voluntary. When inspectors come around, they can
21 ask that this is now -- part of inspection is voluntary. If
22 there are any things that have come up, it's not enforceable.
23 It's not -- there is no -- if there is anything unusual
24 happening during any of the plants that we should know about
25 in order to -- you're laughing.

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1 If it's voluntary, you know --

2 CHAIRMAN STITT: How are you going to make me
3 believe that there is no punishment?

4 Naomi, let's go on to you.

5 MEMBER FLYNN: Well, if you haven't violated any
6 --

7 CHAIRMAN STITT: Right. I don't think that's the
8 culture we've worked on under -- for so long that it would be
9 very difficult to start --

10 MEMBER FLYNN: Well, anyway, if you look at all
11 of the misadministrations that I guess the NRC is trying to
12 put together a database on right now, there are things that
13 have happened quite commonly in radiation oncology. At least
14 in the 50 or 60 I've looked at there have been three different
15 things that have happened multiple times, and I --

16 CHAIRMAN STITT: Let's keep going. Naomi, I'm
17 going to go to you, and then I have another --

18 DR. ALZARAKI: Again, some variation on the same
19 theme, and that would be that if the NRC really wants to
20 collect this data, if they have the funds to support
21 contracting with one or two professional societies to collect
22 it for them on a voluntary basis from their constituents, you
23 might be able to collect something over some period of time.

24 But I've got a project on breast cancer that I'd
25 love for you to put in the regs. to collect data for me.

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1 (Laughter.)

2 CHAIRMAN STITT: Well, tomorrow we will address
3 alternatives 1 through 5. It would not be beyond my summary
4 of what I've been hearing today to think that although each of
5 these includes that we should address precursor events in all
6 of these alternatives, I think we could end up in trouble if
7 we try to come up with an alternative and also hook on the
8 statement about precursor. They may end up needing to be
9 different statements.

10 Jeff, I want to move on. Can I?

11 MEMBER WILLIAMSON: Yes. I was going to ask if I
12 could ask a question about a different aspect of this
13 presentation, but perhaps this is not the one you intend to
14 move on to.

15 CHAIRMAN STITT: Well, here is what I want to do,
16 and we're getting down to 20 minutes. Again, this is to bring
17 us hopefully together so that we're using the same terms. I
18 would like to review, in the document that we have, the old
19 recordable event, the old misadministration, the status quo
20 recordable, the status quo reportable, and AO. So I'm looking
21 at page 3, looking at --

22 MEMBER WILLIAMSON: Could I ask a question about
23 AO?

24 CHAIRMAN STITT: Yes. Let's just talk about what
25 AO -- because when we get to the alternatives tomorrow, if we

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1 understand what terminology we're using, I think we won't have
2 to have that discussion again.

3 Tell us about AO, then.

4 MEMBER WILLIAMSON: Well, you know, what AO looks
5 like to me is that it is an event that must satisfy two
6 criteria. It has to deliver doses, you know, to organs or
7 bone marrow or something that exceed a certain threshold which
8 is specified here in Part A, and then it must satisfy a bunch
9 of conditions which are the same form -- have the same form as
10 the current definition of misadministration.

11 So it seems to me like what the intent is is to
12 rule out a certain set of procedures that, you know, do not
13 have the potential for giving dose that exceed these
14 thresholds. My concern about this is that it does not address
15 one of the major glaring deficiencies of the current
16 misadministration definition, which is there is no threshold
17 for wrong site.

18 So I would like to ask, if I -- if we were doing
19 an intracavitary implant in a patient that gave more than
20 1,000 centigray to the target organ, and the resident, say, is
21 removing the sources at the end of the implant, and he or she
22 fumbles and drops the source on the bed for two seconds, and
23 gives a microsievert extra to the thigh of a patient, that,
24 under current terminology, I think would be a

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1 misadministration, because there is no lower dose threshold
2 for wrong site criterion of the misadministration definition.

3 Would this be also an abnormal occurrence? We
4 have delivered, let's say, one milliremkin of radiation to
5 some unintended site, which is a very tiny fraction of the
6 dose that would be there anyway from inverse square law
7 falloff of the implant as prescribed.

8 MS. HANEY: I think in that case for it to be an
9 AO you'd also have to meet the criteria of A, if you reference
10 page 3. You would have met it under B. Under B, it would
11 have been an AO criteria. But if you didn't exceed the dose
12 thresholds in A, it would not have been an AO.

13 MEMBER WILLIAMSON: Well, I guess the question
14 is, does the dose levels in A -- are they unintended doses,
15 incremental doses added on top of the doses that are supposed
16 to be there? Or are those the doses that would be there if
17 you correctly executed the procedure? So in other words, I
18 thought the --

19 MS. HANEY: These are incorrect.

20 MEMBER WILLIAMSON: So the intent of the AO
21 definition is that these doses are due to some kind of an
22 avoidable error on the part of the caregiver, and they are not
23 due at all -- these are on top of the doses that would have
24 been delivered if the implant had gone off as prescribed. Is
25 that correct?

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1 MS. HANEY: Yes, that's --

2 MEMBER WILLIAMSON: Because I did not get that
3 impression from, you know, my discussions with Dr. Siegel
4 about this issue.

5 CHAIRMAN STITT: Well, we could make a statement
6 as we address this in more detail about the wrong site, that
7 it keeps coming up, particularly, again, with the remote
8 afterloaders, because I think you just are able to more define
9 certain occurrences. In the past, it was a little bit
10 magical.

11 MS. HANEY: Also, I guess a couple of things to
12 know -- when we reference up there the -- like on 2, 3, and 4,
13 where we're raising something to the current misadministration
14 criteria, if there are problems with the misadministration
15 criteria like, for example, the wrong site, the changes could
16 be made in the rule text at that point. This was more a
17 conceptual change as compared to the nitty-gritty items.

18 MEMBER WILLIAMSON: Well, you know, it's just I
19 think -- I want to underscore again, I think one of the most
20 kind of destructive influences of the current
21 misadministration definition and associated reporting rules,
22 you know, is that it lets a whole bunch of -- it treats a
23 whole bunch of cases of small errors, most of which probably
24 fall under the wrong site in some sort of trivial way, but
25 then are treated by the agency as if they involved, you know,

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1 some real injury or some event of medical significance to the
2 patient, and you have to go through and notify the patient and
3 the referring physician, get everybody alarmed, and it sort of
4 creates -- and then also subject the institution to punitive
5 measures -- all over something that by definition, you know,
6 is presumed to have medical significance and involve potential
7 harm to the patient, but in reality doesn't. And so I really
8 think this is an important issue.

9 CHAIRMAN STITT: I also want to refer the group
10 back to the discussion we had today and didn't complete --
11 licensee is required to maintain reportable events, recordable
12 events, abnormal occurrence events. So that discussion has to
13 be held tomorrow. And there are some levels that --

14 MEMBER NEMP: It can be either/or.

15 CHAIRMAN STITT: Well, it could be any of the
16 above. Remember, we said we need to -- the feeling was we
17 probably needed to maintain some sort of record. What will it
18 be?

19 MS. HANEY: The other thing, when I got back to
20 my desk I realized this morning when I spoke about the one SRM
21 where the Commission had given the SRM to the ACMUI, there
22 were two more questions that had to do with events that I was
23 going to table until this discussion. Would you like me to
24 put those up just so people can be thinking about them?

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1 CHAIRMAN STITT: We can be thinking about them
2 tonight, right.

3 Does everybody feel comfortable -- I don't know
4 if comfortable is the right word -- are we making the same --
5 are we working under the same understanding that
6 misadministration, according to 35.2, and all of the points
7 that are listed here on 35, everybody now knows what abnormal
8 occurrence event criteria are?

9 MEMBER NELP: I'm confused whether we're talking
10 about having to report only one series of events that are
11 "mistakes" or "misadministrations," and they would follow the
12 definition of what is called an abnormal occurrence. And
13 those are the events that we would report, or we would report
14 events other than that as also being misadministrations.

15 CHAIRMAN STITT: I think that's what we will be
16 discussing.

17 MS. HANEY: Yes. It really depends upon the
18 option that you choose.

19 MEMBER NELP: So we could choose just one event
20 will be reportable, and it can have this definition or some
21 other definition.

22 MS. HANEY: Right. But then you also have to
23 come to grips with this precursor event.

24 MEMBER NELP: Well, I think we've come to grips
25 with that. I think that's very --

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1 MS. HANEY: Okay.

2 MEMBER NELP: I don't think that's --

3 MEMBER GRAHAM: Just one question on that before
4 we leave it. The definition of abnormal occurrence that is
5 published here on page 7 that you had introduced as a required
6 data element that you, the NRC, has to report to Congress?

7 MS. HANEY: Yes.

8 MEMBER GRAHAM: Is that Congress' definition of
9 an abnormal occurrence?

10 MS. HANEY: No. That's --

11 MEMBER GRAHAM: Is that staff's recommended
12 definition?

13 MS. HANEY: It is --

14 MEMBER GRAHAM: Could this committee throw it out
15 and propose something else?

16 MS. HANEY: Well, yes, I guess is the answer.
17 This is the definition that NRC has gone to Congress with and
18 said, "This is what we will report to you at this level." Now
19 --

20 MEMBER GRAHAM: So any change in it you would
21 have to take back to Congress.

22 MS. HANEY: If we change the AO criteria -- now
23 recognize that this group can change those numbers for the
24 purpose of Part 35. Where I run into a problem is if you
25 raise the Part 35 reporting higher than the AO criteria, then

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1 I can no longer -- we can no longer meet the statutory
2 requirement to tell Congress.

3 So you have the -- well, you have -- I mean, if
4 you want to make it 30 versus 50, I mean, that flexibility is
5 in there. You can even come up with other thresholds. These
6 were just ones that the working group came up with.

7 MEMBER GRAHAM: Okay. But to clarify, we can
8 make it lower, but we couldn't make it higher without the NRC
9 having a requirement of going back to Congress.

10 MS. HANEY: Yes.

11 MEMBER GRAHAM: So --

12 MEMBER NELP: And this is the current
13 requirement.

14 MS. HANEY: This is the current requirements for
15 the AO criteria. Also, realize that this is -- there are
16 several other requirements for reporting to Congress. This is
17 only a small portion of the AO criteria, and I only picked the
18 ones that were specific to misadministrations. There are ones
19 that are just specific to fuel cycle, to reactor site, things
20 like that. But this was the only section that was
21 appropriate.

22 MEMBER WILLIAMSON: Could you supply us tomorrow
23 with a more complete definition, and if you have any, you
24 know, useful regulatory guide or other associated document
25 that helps you interpret this to --

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1 MS. HANEY: The AO criteria?

2 MEMBER WILLIAMSON: Yes. To give us --

3 MS. HANEY: Sure.

4 MEMBER WILLIAMSON: It's totally new to me, and I
5 must confess I find the wording of it very ambiguous. And
6 maybe this is just sort of a very brief summary of a longer,
7 more extended definition.

8 CHAIRMAN STITT: You know, Cathy, a question
9 along that similar line, you report to Congress, then, under
10 Section B -- represents either B2, treatment delivered to the
11 wrong treatment site. So Congress just heard about you have
12 dropped the source on the patient's thigh?

13 MS. HANEY: No. No, because in this case it's an
14 A and B. So if he dropped the --

15 CHAIRMAN STITT: I got you.

16 MS. HANEY: -- source on the patient's site, and
17 the dose exceeded A --

18 CHAIRMAN STITT: Okay.

19 MS. HANEY: -- then we would have to tell
20 Congress.

21 CHAIRMAN STITT: Thank you.

22 MEMBER NELP: Did you, in fact, report any AOs to
23 Congress last year from the arena of medical usage?

24 MS. HANEY: Yes, we did.

25 MEMBER NELP: Do you know how many?

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1 MS. HANEY: How many? About 12.

2 MEMBER NELP: Thank you.

3 MEMBER SWANSON: This is an attempt to establish
4 consistency between the Part 20 AO requirements, right? Don't
5 they appear in Part 20?

6 MS. HANEY: No. AO criteria is a management --
7 an NRC document, a management directive, internal staff
8 document.

9 MR. COOL: What you will find is that the AO
10 criteria in general are at least a factor of five larger than
11 any of the actual dose criteria. So if you're looking at Part
12 20 dose limits, the AO criteria are generally five times the
13 limit in Part 20. So in general, the AO criteria are a set of
14 numbers which are substantially above that which requires
15 reporting in the regulation itself, and is the cut set that
16 the Commission has currently given to Congress.

17 And Congress, by not disagreeing, coming back and
18 saying, "We want to hear about -- more or less has accepted
19 with regards to what we will tell them about really
20 significant events under their particular act and oversight
21 actions." The agency, in fact, just in the last year or two
22 did a revision of the criteria, and there were some changes.
23 And, in fact, the present set that is represented here in the
24 medical arena is a set which results in there being fewer AOs

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1 identified in this arena than there was previously by about a
2 factor of two.

3 CHAIRMAN STITT: Go ahead, Cathy.

4 MS. HANEY: Yes. As I mentioned, in the SRM that
5 went directly to the ACMUI there were four questions. Two we
6 discussed this morning. These are the last two, and they are
7 event related. So we can maybe come up with answers for these
8 during tomorrow's discussion.

9 The third question that was in considering
10 various events, misadministrations, equipment failures, and
11 procedural errors, what criteria should the NRC use to
12 determine that a particular event is isolated rather than
13 having program implications for that licensee or generic
14 implications for other medical licensees, and what is the best
15 process for the reporting of events to ensure that the NRC is
16 aware of potentially generic issues.

17 And then the last question is, in evaluating
18 errors, should a threshold be established beneath which
19 corrective action is not required? And how would such a
20 threshold be set, and how would it be implemented? So those
21 are things that are very key to this discussion of precursor
22 events.

23 MEMBER FLYNN: Are we discussing this again
24 tomorrow?

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1 MS. HANEY: I'm closing it up. I'm closing up
2 shop.

3 MEMBER FLYNN: Good.

4 (Laughter.)

5 MS. HANEY: Well, that's -- no, it's --

6 CHAIRMAN STITT: Yes, this has all been
7 background for tomorrow. I think we have had quite a
8 discussion, however, on precursor events.

9 Don't leave yet. You're not excused. You have
10 to ask permission.

11 Any other comments before we close down for
12 today? Take this section home, make sure you're comfortable
13 with it, so we don't have to spend a lot of time going through
14 definitions tomorrow again.

15 MEMBER FLYNN: I think looking at these
16 incidents, I mean, I think that -- I think -- is it Dennis
17 Serig who is compiling a lot of this database? And I think if
18 an incident comes up, like in radiation oncology, I think the
19 staff could ask, you know, members of this committee, together
20 with NRC staff, who have been collecting a database, to
21 determine whether this is something that they need to pursue
22 or not.

23 Then you've got -- you know, if it's a nuclear
24 medicine problem, then you've got several nuclear medicine
25 people here, plus you've got staff like Mr. Serig, who is

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1 collecting a database over the years with these abnormal
2 occurrence events and misadministrations and other things, to
3 determine whether this happened before, whatever it is that
4 has happened, and whether anything needs to be pursued on that
5 or not. I think it has to be a case-by-case basis.

6 CHAIRMAN STITT: Any other comments? Looks like
7 we wore out that side of the room. Okay. 8:00 tomorrow
8 morning then.

9 See you then.

10 (Whereupon, at 4:55 p.m., the proceedings in the
11 foregoing matter went off the record.)

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