

1 UNITED STATES OF AMERICA  
2 NUCLEAR REGULATORY COMMISSION

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4 ADVISORY COMMITTEE ON THE MEDICAL USES  
5 OF IOSTOPES (ACMUI)

6  
7  
8 Nuclear Regulatory Commission

9 Two White Flint North

10 Room T2D3

11 Rockville, Maryland

12  
13 Wednesday, October 20, 1999

14  
15 The committee met in open session, pursuant to  
16 notice, at 2:05 p.m., Dr. Manual Cerqueira presiding.

17  
18 MEMBERS PRESENT:

19 DR. MANUAL CERQUEIRA

20 MS. NEKITA HOBSON

21 MS. RUTH McBURNEY

22 DR. LOUIS WAGNER  
23  
24  
25

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

[2:05 p.m]

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2  
3 DR. CERQUEIRA: Good afternoon. My name is Manual  
4 Cerqueira. In Dr. Stitt's absence, I'm going to be interim  
5 chair for today's meeting. I would like to turn the meeting  
6 over at this time to Cathy Haney from the NRC.

7 MS. HANEY: I am going to read the official opening  
8 remarks for the meeting.

9 I am pleased to welcome you to Rockville for the  
10 public meeting of the ACMUI. My name is Cathy Haney. I'm an  
11 acting branch chief of the Rulemaking and Guidance Branch and I  
12 have been designated as the federal official for the advisory  
13 committee.

14 This is an announced meeting of the committee. It is  
15 being held in accordance with the rules and regulations of the  
16 Federal Advisory Committee Act and the Nuclear Regulatory  
17 Commission. The meeting was announced in the Federal Register  
18 in September and the meeting notice indicated that the meeting  
19 would start at two o'clock.

20 The function of the advisory committee is to advise  
21 the staff on issues and questions that arise on the medical use  
22 of byproduct material. The committee provides counsel to the  
23 staff but does not determine or direct the actual decisions of  
24 the staff or the Commission.

25 The NRC solicits the opinions of the council and

1 values the opinions of the committee very much.

2 I do request that whenever possible we try to reach a  
3 consensus on the various issues that we will discuss today or  
4 at any other ACMUI meetings, but I also do value stated  
5 minority or dissenting opinions. I do ask that if you have  
6 dissenting opinions that we read those into the record.

7 As part of the preparation for this meeting I have  
8 reviewed the agenda for members and employment interests based  
9 upon the very general nature of the discussion that we are  
10 going to have today. I have not identified any items that  
11 would pose a conflict. Therefore I see no need for an  
12 individual member of the committee to recuse themselves from  
13 the discussion. However, if during the course of our business  
14 you determine that you have some conflict, please state it for  
15 the record and recuse yourself from that particular aspect of  
16 the discussion.

17 At this point I would like to introduce those that  
18 are here today and those that we expect.

19 First, we are expecting Niki Hobson, who is  
20 representing patient rights, to join us.

21 Dennis Swanson is here, representing nuclear  
22 pharmacy. He is here as a consultant to the committee because  
23 Dennis did go off the ACMUI on September 30, I believe, but we  
24 are keeping him on as a consultant.

25 Dr. Cerqueira, who is representing cardiology as well

1 as background and diagnostic nuclear medicine. He will be  
2 functioning as the chair of the committee.

3 Dr. Don Cool, who is the director of the Division of  
4 Industrial and Medical Nuclear Safety.

5 Ruth McBurney, who is representing state interests.

6 Lou Wagner will be joining us shortly, and he will be  
7 representing the physicists.

8 I would like to make two other introductions.

9 Barry Siegel is off to my right. Barry has been a  
10 consultant to the Part 35 Working Group and has helped us with  
11 revising the rule.

12 Theresa Kendall, who is sitting over to my left by  
13 the pole, is providing administrative support to us. Also, she  
14 is the one that is handling your travel. If you need anything  
15 associated with travel, you can see Theresa.

16 With that, we will turn to Don.

17 DR. COOL: Thank you, Cathy. I am Don Cool, director  
18 of the division. Let me add my welcome to you for this  
19 afternoon's brief session.

20 As most you probably are both acutely and chronically  
21 now aware, we continue with the revision of Part 35. A good  
22 chunk of the agenda today is in fact to look at and be prepared  
23 to participate in the briefing of the Commission that will take  
24 place tomorrow morning.

25 By way of background on that, the Commission has had

1 in front of it since August a draft final rule for their  
2 consideration. They had requested the staff to provide the  
3 draft rulemaking language so that they could consider the  
4 entire aspect of the rule. Not only the major issues, but all  
5 of the bits and pieces to look at along with enough supporting  
6 information to allow them to understand why the staff had made  
7 the recommendations that it made.

8           They also asked that we provide them in a couple of  
9 specific cases with some specific information, one particularly  
10 being in the patient notification arena as result of some of  
11 their previous discussions. The package which they have front  
12 of them, which is publicly available, I hope each of you have  
13 had an opportunity to look at. That package in fact contains  
14 two different alternatives of possible rule text that the  
15 Commission will be considering.

16           Tomorrow's briefing of the Commission will be the  
17 public opportunity for the Commission to hear from the staff  
18 and from the advisory committee about the revision of Part 35  
19 in particular and any particular issues that you might wish to  
20 bring to their attention.

21           I would expect that they will be very interested both  
22 in your particular views on a number of key issues and may well  
23 ask some rather pointed and focused questions to try and help  
24 them understand the basis for particular recommendations in  
25 support or changes that might be part of that, because the

1 Commission is in fact in the position where following that  
2 meeting it is going to want to be considering and voting upon  
3 that package in order to give the staff direction on how to  
4 proceed.

5 The game plan for this is that the Commission will  
6 complete its review with this public meeting and then any  
7 further follow-up questions that they may ask of us and then  
8 will provide the staff the staff requirements memo indicating  
9 exactly how it wishes the staff to proceed with finalizing the  
10 document. We would expect that they would give us specific  
11 direction to change or modify specific rule text.

12 Then we would be looking to provide back to the  
13 Commission approximately three months after that direction was  
14 given a final complete package, which at that point would have  
15 any of the adjustments that the Commission wanted to have to  
16 the rule language itself, to the supporting documentation, as  
17 in the statement of considerations, regulatory analysis  
18 supporting documents, as well as the corresponding guidance  
19 document which has not yet been provided so that we didn't  
20 spent too much time writing a document before the Commission  
21 was in fact comfortable with how it wished the rule to look.

22 That is where we are procedurally in terms of the  
23 activities.

24 The Commission has a number of areas that we have  
25 suggested to them that are of particular interest because they

1 have been the things that we have talked about and have come up  
2 in the whole series of public interactions that we have been  
3 going through over the last a little over two years with this  
4 process. I think those are very familiar to us.

5 Things like reporting levels for an unintended dose  
6 to an embryo/fetus. The reporting of information to the  
7 patient and to the Commission, which is in fact the specific  
8 place where the Commission asked us to give them some  
9 alternative language.

10 Training and experience, which has throughout this  
11 process been an area of great discussion and back and forth.

12 So I would encourage you to use this afternoon to  
13 look at those particular issues and to know how you would tend  
14 to respond and which one of the committee members might be the  
15 lead for that particular arena when the Commissioners start to  
16 ask questions.

17 I expect tomorrow that there will be three  
18 Commissioners at the table, Chairman Dicus and Commissioners  
19 Merrifield and McGaffigan. Commission Diaz is out of town,  
20 but, as they did today during the briefing by the Organization  
21 of Agreement States, he will be listening by phone. I don't  
22 know whether they by the time tomorrow comes around have sorted  
23 out some of the technology glitches that made it essentially  
24 impossible for Commissioner Diaz to actually ask questions  
25 during the course of the discussion. I hope they will have

1 that fixed and that he will be able to participate as well as  
2 just listen to the briefing.

3           The one other thing that I do want to mention is that  
4 there was a briefing today by the Organization of Agreement  
5 States. Dave Walter, who has been part of the Part 35 Working  
6 Group throughout this process and the head of the Conference of  
7 Radiation Control Program Directors State Reg Committee did  
8 make a presentation to the Commission on that task group's view  
9 of the rule, and in particular several places where that task  
10 group of the conference is looking at some recommendation which  
11 does not exactly match what is in the proposed final Part 35  
12 that is front of the Commission.

13           I know Ruth McBurney has had a copy of that talk and  
14 the presentation that was made.

15           I should note that the discussion today did not  
16 reveal any new information that I was aware of. The topics  
17 which Mr. Walter discussed this morning in that public meeting  
18 were essentially the same topics which he had addressed during  
19 the Organization of Agreement States meeting in Austin, Texas,  
20 a month and a half or so ago.

21           There were a number of questions asked by various  
22 Commissioners in terms of the relationship between some of the  
23 more prescriptive proposals which the conference task group was  
24 considering and its interaction with the whole concept of the  
25 practice of medicine. There was a little bit of a discussion



1 back and forth of what might constitute practice of medicine.

2           There was some discussion on training and experience.  
3 In particular some back forth with regards to what data  
4 supports or doesn't support various segments of the training  
5 and experience both in terms of the event history that has been  
6 out there and the biological effects of different quantities of  
7 material, particularly in the unsealed therapy arena.

8           There was also some discussion on concepts of patient  
9 release and some discussion on the reporting criteria for the  
10 embryo/fetal dose, with Commissioners asking a couple of  
11 clarifying questions and getting some clarifying information.

12           In that respect, today's presentation paralleled in a  
13 number of ways the key issues that I expect to come out and may  
14 well give an indication to you as members of the committee of  
15 things that the Commissioners are likely to bring back up to  
16 you and ask you very similar sorts of questions to get the  
17 committee's view, and they are likely also to ask the staff  
18 that same sort of question, trying to understand as best they  
19 can before they vote the information that goes behind this, the  
20 kinds of considerations that have come into play, the facts and  
21 implications of the matter. I think it was very clear that the  
22 Commission is concerned about the implication for practice of  
23 medicine, for availability of care as part of their overall  
24 consideration of what to have in this rulemaking activity.

25           I think that concludes what I wanted to outline for

1 you. With that, Dr. Cerqueira, I will conclude my remarks and  
2 let you get on about the business of preparing for the meeting.  
3 Thank you.

4 DR. CERQUEIRA: Thank you very much. I think for  
5 some of the issues that you have identified, especially if the  
6 Agreement States have significant input, it will be very  
7 worthwhile for Ruth to give us whatever information she can  
8 recall from that meeting. The Agreement States right now,  
9 there are 30 of them --

10 MS. MCBURNEY: Thirty-one.

11 DR. CERQUEIRA: Thirty-one.

12 MS. MCBURNEY: We just added one.

13 DR. CERQUEIRA: The federal rule, unless it has wider  
14 application, may create some discrepancies and some further  
15 problems.

16 Cathy.

17 MS. HANEY: I would see we can just go on to the  
18 first agenda topic and address this one so we can focus on  
19 getting ready for the briefing.

20 This is the committee's self-evaluation. Let me give  
21 you a little bit of background for those that have not been  
22 with the committee for the last couple of years.

23 In 1998 the Commission came down with a request to  
24 all the advisory committees asking them to come up with  
25 self-evaluation criteria. We would always take about five or

1 ten minutes at one of the semiannual meetings and talk a little  
2 bit about the criteria and where we were.

3 As a result of one of the meetings we did come up  
4 with a list of criteria and that was forwarded up to the  
5 Commission. You have a copy of that memo under your tab.

6 After that, Commissioner McGaffigan came back and  
7 asked that we slightly modify two of the particular items and  
8 add in, I believe, an additional question. That is the list  
9 that you see in your book. You have a copy of what I have up  
10 on the screen. It's a listing of all the questions.

11 The other advisory committee have gone back to the  
12 Commission already with their self-evaluations. However,  
13 because the ACMUI has been so involved with Part 35, we went  
14 back and said we've really focused in on 35 and that is why we  
15 haven't gotten to you before, but the next meeting that we  
16 have, which happens to be this meeting, we will discuss it with  
17 the ACMUI members.

18 What I would like to do is work with the committee to  
19 provide support to you all. If we can go through these  
20 questions and come up with some answers to them rather than  
21 spending time correcting them editorially, if we can get some  
22 thought processes down, some brainstorming down, then we can  
23 come back and refine this for you and then put it out for the  
24 committee to look at as a whole and maybe hold a telephone  
25 conference call where you would actually get a second chance to

1 look at it. At this point we need to make the next step, which  
2 is maybe to spend 20 or 30 minutes going through some of these  
3 items.

4 The first one I would offer is, does the staff and  
5 the ACMUI interact in such a manner as to satisfactorily  
6 address issues before the Commission? Rather than me bias you,  
7 I will turn it back.

8 DR. CERQUEIRA: I can make my first comments.  
9 Probably being the most junior member of the committee, I think  
10 the whole Part 35 revision rulemaking has involved an extensive  
11 amount of interaction between the committee and the staff. I  
12 think we have provided a significant input in terms of the  
13 medical applications and the clinical setting, which is  
14 expertise that the staff do not really have. I think there has  
15 been extensive interaction and unique expertise that have been  
16 provided, and the mechanism for this interaction has been  
17 satisfactory.

18 Perhaps we should go around and take comments,  
19 perhaps starting with Lou who has been here a while.

20 DR. WAGNER: I guess my only comment would be the  
21 ACMUI has absolutely no inhibitions about interacting on any  
22 issues that are brought before it. I have been pretty  
23 satisfied with being able to address everything. I don't have  
24 any qualms about this issue.

25 DR. CERQUEIRA: Ruth.

1 MS. MCBURNEY: Since the draft comments are mostly  
2 mine, I would say the staff has been very helpful in telling us  
3 what issues need to be addressed and what the issues are, what  
4 they want input on, and certainly with this volume of material  
5 that we are being asked to comment on on this significant  
6 rulemaking there has been, as you say, a great deal of  
7 involvement. That relationship with the staff has been very  
8 positive.

9 DR. CERQUEIRA: Dennis.

10 MR. SWANSON: Yes.

11 DR. CERQUEIRA: Niki.

12 MS. HOBSON: Certainly the experience of interacting  
13 with the staff has been thoroughly enjoyable for me. This has  
14 been an education for me sitting in on these meetings and  
15 hearing the learned discussions from both sides of the table.

16 Sometimes I wonder -- and there is probably some  
17 logical explanation -- when the committee takes a stand that is  
18 not necessarily reflected in the staff's input to the  
19 Commission. I am wondering why that happens. In particular  
20 the patient notification issue. We have been pretty unanimous  
21 in not wanting patient notification, and yet we keep seeing  
22 that issue come up. Are we not saying it strong enough, or is  
23 there something else going on that I don't quite understand?

24 MS. HANEY: Can I address that?

25 DR. CERQUEIRA: Yes, Cathy.

1 MS. HANEY: Your opinions are reflected in the  
2 minutes. We have the minutes after each one of the meetings.  
3 Those minutes are provided to the Commission. It happened to  
4 be that in this particular package they went up with the rule  
5 language. It doesn't always happen that way. In fact, usually  
6 it goes up under a separate cover, but in this one is made  
7 sense to give it to them so they could see it first hand out of  
8 the minutes.

9 When we do a rulemaking, what leaves us is not really  
10 what the ACMUI had recommended. We try at subsequent ACMUI  
11 meetings to come back and tell you what happened. That is a  
12 relatively new effort. The last two or three years before that  
13 I think there was a big gap on feedback to you. You might not  
14 like what we tell you when we come back and tell you, but at  
15 least now you know why it happened. But the minutes do go up.

16 One thing if I could get you to comment on. The  
17 bylaws right now call for two meetings. Last year we had the  
18 ACMUI meetings, but we did cancel the November meeting.  
19 Because of the Part 35, there was no reason for you to get  
20 together.

21 Under this particular item, you might want to comment  
22 on the frequency of the meetings. Maybe additional use of  
23 telephone conferences. We did find out that if we do have a  
24 telephone conference which involves the entire committee and  
25 decisions are being made, that does need to be made public. We

1 need to give a call-in line for any of the public that would  
2 want to come in. So that would affect how whether we would  
3 really want to go that way.

4 And use of e-mails. NRC is getting into all this IT  
5 stuff. If you would want to comment on how that would help or  
6 how it does help the committee to address issues and whether  
7 you feel like you are getting enough information from us. We  
8 could send you more e-mails if you want them, but you might be  
9 getting enough of them already.

10 DR. CERQUEIRA: Cathy, I guess the Federal Advisory  
11 Committee Act does mandate how some of this communication can  
12 be handled. I'm sure we have to stay within those guidelines.  
13 I think some of these alternative methods would certainly be  
14 valuable as a way to get information from the committee and  
15 feedback from the members of the committee and staff. I think  
16 we would be willing to explore some of these possibilities.

17 I would like to make one comment about some of Niki's  
18 statement. We are an advisory committee. We can feel very  
19 strongly about things, but there is no obligation upon the  
20 staff or the NRC Commissioners to take action on the  
21 recommendations. That's a little bit of a reality check that I  
22 had to go through when I got here.

23 Would anybody else like to comment?

24 MR. SWANSON: Just a question, Cathy. Since it seems  
25 like final decisions on a lot of these issues lie with the

1 Commission, how does the staff and the Commission interact so  
2 that you have full understanding of where the Commission is  
3 coming from on various issues such as patient notification so  
4 that you can bring that back to this committee?

5 MS. HANEY: I will answer it from personal  
6 experience, and this is more less just a couple of years. I  
7 feel especially with Part 35 that the Commission really does  
8 have a good understanding for where the ACMUI is, because I've  
9 had the opportunity to talk either with the Commissioners  
10 directly or with their technical assistants on a one-on-one  
11 basis. I have been quite honest with them about where we  
12 stand, where staff is. Even within staff there are differing  
13 opinions. Where the ACMUI is, where the states are. I have  
14 tried to keep them informed of all the different interests that  
15 are out there.

16 It was easy to do with a rulemaking like this that  
17 has as much visibility as it has. On some of the other  
18 rulemakings we have done in the past on Part 35 they have not  
19 been as visible. So it has really afforded someone in my  
20 position the one-on-one contact with the TA's or with the  
21 Commissioners themselves.

22 What we try to do is in any of the Federal Register  
23 notices we have to address that it was discussed in an ACMUI  
24 meeting and this is what the ACMUI said. So it is going to  
25 them in writing. I have no problems with that. Sometimes when



1 you get the opportunity to meet one-on-one you can get a point  
2 across a lot better than you can by just reading it in a draft  
3 Federal Register notice.

4 MR. SWANSON: Do you feel as a staff member meet with  
5 them enough to have a good understanding of where they are  
6 coming from on this issue, Part 35?

7 MS. HANEY: On this one, yes. I think this one has  
8 gotten enough visibility and the way that it has been handled  
9 internally with a little bit more of a streamlining process as  
10 far as management. As any government agency, we have our  
11 management chain. I haven't had to go through as many of those  
12 steps with this rulemaking. That has helped a little bit.

13 Also, NRC as a whole is going through a bit of a  
14 change where we are looking more for stakeholder involvement  
15 and stakeholder opinion and what are the implications on  
16 stakeholders. It is almost like everything is kind of changing  
17 for the good at this point.

18 DR. CERQUEIRA: If we are going to finish on time, we  
19 probably should continue. Following Dr. Stitt's lead, she was  
20 a very good taskmaster on time.

21 We have enough information here in terms of the  
22 interactions between the staff and the committee.

23 Question 2 of the self-evaluation criteria: Do the  
24 committee members clearly define issues for staff and provide  
25 timely, useful, objective information to the staff when

1 requested?

2                   This is almost a comment from the staff rather than  
3 the committee.

4                   MS. HANEY: We will get our opportunity to respond to  
5 these too.

6                   DR. CERQUEIRA: Any comments on this, Lou.

7                   DR. WAGNER: I think the statement that is made there  
8 is somewhat pejorative and should be struck. It tends to  
9 indicate that people are biased. I think the whole idea here  
10 is we have to represent different professions. The whole  
11 intent is to represent the different sides, and I don't think  
12 that should be presented in a pejorative way. That is planned;  
13 that is the way it's supposed to be.

14                   As far as I'm concerned, within my experience and  
15 interactions that I've had, the answer is yes. I don't know of  
16 any cases where we have not been able to communicate with the  
17 staff well enough to provide objective information and clearly  
18 define the issues. I think the statement as it is written is  
19 too pejorative and should be struck.

20                   DR. CERQUEIRA: Ruth.

21                   MS. MCBURNEY: It really wasn't meant to be  
22 pejorative. To be objective, you have to look beyond not only  
23 the group that you are representing, but to try to provide the  
24 most accurate information. I think the committee members do  
25 try to do that.

1 DR. CERQUEIRA: I would like to comment that this is  
2 a forum for input from various groups that are involved, both  
3 physicians as well as physicists, radio chemists. I think the  
4 composition has been carefully thought out. We obviously don't  
5 always agree on some of these issues and we have very strong  
6 opinions on them.

7 Certainly in the interactions that I have had people  
8 have managed to put aside some of their real core issues in a  
9 spirit of compromise to come up with a consensus which has  
10 overall safety of patients in mind. Rather than seeing this as  
11 a negative, I think it is a positive.

12 Dennis.

13 MR. SWANSON: The only comment I might make is I  
14 think the committee does a good job defining issues in response  
15 to items or regulations or proposed regulations that are put in  
16 front of the committee. One could also interpret this to mean  
17 that the committee members themselves are bringing issues to  
18 the NRC for discussion, and we probably haven't done that as  
19 much as perhaps we should be doing it.

20 DR. CERQUEIRA: Good point.

21 Do you have sufficient information?

22 MS. HANEY: Maybe "the forum for providing comments  
23 from different perspectives," and then I will delete what is  
24 written there. Are you okay if I delete this and then just go  
25 with those bullets?

1 DR. CERQUEIRA: I think that is fine. Question 6  
2 also addresses some of this, all elements of the medical  
3 community. I think we will revisit that again.

4 Does the staff have any comments for us? Are we  
5 timely?

6 MS. HANEY: Yes, I think so. The experience has  
7 really been with 35, and I think everything has run very  
8 smoothly with 35. When we have needed you, you have been there  
9 for us. I think the use of the subcommittees has been  
10 wonderful. In fact, we got a tremendous amount out of the  
11 subcommittees.

12 Also, I haven't had a problem in calling any one of  
13 you and saying I've got this particular issue, you're the best  
14 one to answer this, can you give me the advice, and getting  
15 timely advice. When we go back with our staff review of the  
16 interactions with the committee, that is what I am going to  
17 emphasize.

18 I personally think there is a tremendous value to  
19 this committee and my ability to access radio pharmacy,  
20 physicists. Everyone always says, what does the patient rights  
21 advocate say? They don't care what Dennis says.

22 It has been great. That's what I'm going to bring  
23 up.

24 Are you okay with number 3?

25 DR. CERQUEIRA: Any additional comments?

1 MS. HANEY: I would like to get your comments on the  
2 subcommittees and whether this is a particular question or not.  
3 Maybe we can put some bullets here, and then if it's not, when  
4 we get to it, we can put it in another place. Did you find the  
5 use of the subcommittees beneficial as compared to just waiting  
6 and presenting the big bulk of the material at a full meeting?

7 MS. MCBURNEY: I think that is going to be addressed  
8 in number 9.

9 DR. CERQUEIRA: My experience on the committee has  
10 all been related to Part 35 revisions and it has been very  
11 intense, with frequent meetings and interactions.

12 DR. WAGNER: Are we addressing 9 now?

13 MS. HANEY: No. We can come to that. I didn't  
14 realize the subcommittee was on there.

15 DR. CERQUEIRA: Any additional comments on 3?

16 Let's move on to item 4. Does the committee provide  
17 expert advice which is not available from within the agency?

18 MS. HANEY: Let me read it into the record. The  
19 answer that we are looking at is:

20 Yes, the members of the committee represent those  
21 being regulated as well as medical, physics, and pharmaceutical  
22 expertise not available on the staff. It also provides input  
23 from the state regulatory perspective which is to some extent  
24 different from that of NRC, and input from radiation safety  
25 officers who must implement the final rules and guidelines.

1 DR. CERQUEIRA: It's a very concise statement. I  
2 think it sort of summarizes some of the things we have said  
3 earlier.

4 Does anyone wish to make changes or additions?

5 MR. SWANSON: The main point is you are getting input  
6 from people that actually have to put your regulations into  
7 practice.

8 DR. CERQUEIRA: The regulated community.

9 MS. HANEY: Question 5. Want to go ahead?

10 DR. CERQUEIRA: Sure.

11 MS. HANEY: Does the committee meet frequently enough  
12 to address issues in a timely manner. The answer is yes.

13 I would say if we could elaborate here. This is  
14 really getting at what I was starting prematurely to talk  
15 about. For right now semiannual is working, but looking back  
16 to where we were last November, were you in agreement with  
17 canceling that November meeting because of where we were with  
18 the projects? To the best of my knowledge, that was first time  
19 we had actually canceled one of the big meetings. It didn't  
20 seem practical to have it.

21 Would like us to continue to consider that when we  
22 are having a meeting whether the timing is right and whether  
23 there are sufficient issues to bring everyone together?

24 DR. CERQUEIRA: I think that is totally appropriate.  
25 To just have a meeting for the sake of meeting is not in

1 anybody's interest. We spent all this time working on the  
2 draft rule. I think over the next several years we are going  
3 to have to deal with the fallout of that, and there may be more  
4 issues than we care to address.

5 MS. MCBURNEY: There are also those special topics  
6 that we put aside until this rulemaking was finished.

7 DR. WAGNER: I would say that I think it is important  
8 that this committee meet at least twice a year and try to make  
9 every effort to do so.

10 I think last year and last November was an exception,  
11 mainly due to the fact that the staff was so overwhelmed that  
12 organizing and putting together a meaningful meeting was  
13 difficult. I think we should make every effort to have a  
14 meeting twice a year to keep up to date with what the issues  
15 and principles are. It's just very important.

16 Whether we are going to address it or not, I also  
17 like the issue of having subcommittee meetings in there,  
18 because they seem to be extremely productive meetings where a  
19 lot of fresh ideas come forth.

20 I would not want us to get into a cavalier attitude  
21 toward having meetings. I think we absolutely should have at  
22 least two a year.

23 DR. CERQUEIRA: Good points. If we don't have enough  
24 issues, then you'd have to question the value of the committee.

25 Any additional comments for 5?

1 Cathy.

2 MS. HANEY: Number 6. Do committee members bring  
3 issues from all elements of the medical community to the  
4 attention of NRC staff. The answer that we are looking at:

5 Yes. Usually for those issues that involve other  
6 aspects of the medical community consultants are brought in for  
7 the committee meetings to provide expertise and information for  
8 decision making in those areas. I was pleased to see that a  
9 radiation safety officer position has been added to ACMUI since  
10 this position plays a key role in implementation of rules and  
11 sees issues more clearly from a radiation safety standpoint.

12 DR. WAGNER: Who is "I"?

13 MS. MCBURNEY: That was the one person that responded  
14 to this.

15 MS. HANEY: It wasn't me, Lou. I didn't write these  
16 answers.

17 DR. CERQUEIRA: Any additional changes or deletions?

18 MS. HANEY: Number 7. Does the committee facilitate  
19 and foster communication between the public, medical community  
20 and NRC?

21 Yes. This gives greater opportunity for the NRC to  
22 listen to input from the public and the medical community as  
23 well as for representatives of the medical community to better  
24 understand the regulatory philosophy that goes into standards  
25 and policy.



1 DR. WAGNER: Is this a question mostly answered by  
2 staff about the committee and rather than us about ourselves?

3 MS. HANEY: No. This is really for you to look at  
4 yourselves. The question is, are you providing a link or a way  
5 of getting information from your professional organizations to  
6 us? And vice versa. Are you able to take information that you  
7 get from being on this committee and go back to your  
8 professional organization and help them to understand why we do  
9 things the way we do things.

10 DR. WAGNER: We have to be very careful, though. As  
11 you know, we cannot speak as ACMUI members when we are talking  
12 to any of those other groups. This question is a little dicey  
13 for me to get into because of the way it is worded and phrased.  
14 I would hope that our most important role is to give the staff  
15 a perspective on regulation so that its communication with  
16 other areas outside of the ACMUI is more fluid and more  
17 communicative.

18 DR. CERQUEIRA: Dennis.

19 MR. SWANSON: It goes the other way too. I routinely  
20 do presentations before the nuclear pharmacy community as to  
21 where we stand with the regulations, et cetera. So, yes, it is  
22 working the other way also. I clearly announce that I am not  
23 doing a representation as a member of the ACMUI. It provides a  
24 mechanism to keep these people up to date, because obviously  
25 they are not in this room.

1 DR. CERQUEIRA: I think the way the meetings have  
2 been set up, if there are other interest groups that are out  
3 there, they have the opportunity of making presentations and  
4 presenting other viewpoints that may not necessarily be  
5 directly represented in the community. That option exists out  
6 there to make certain we get communication from all the  
7 parties.

8 Any additional comments for 7?

9 Why don't we go on to 8. I will read it while Cathy  
10 is typing.

11 Does the committee consider current resource  
12 constraints of the NRC when recommending new or enhanced  
13 regulatory programs?

14 Yes, I feel that it does. One example this year was  
15 the initial proposal for an exam to be included in the training  
16 requirements for authorized users. The review of exam programs  
17 would have been resource-intensive for NRC. This was one of  
18 the reasons it was removed as a proposed requirement. This  
19 measure was concurred in by the ACMUI.

20 Comments?

21 MR. SWANSON: To the same extent that the NRC  
22 considers resource constraints of the medical community when  
23 recommending new or enhanced regulations.

24 You don't have to put that down.

25 MS. HANEY: I'll get it in there somewhere.

1 MR. SWANSON: In all reality, I think that is  
2 something that is in the back of our mind that goes both  
3 directions.

4 MS. MCBURNEY: What's it going to cost the community  
5 to implement and what's it going to cost the regulators.

6 DR. CERQUEIRA: Other comments?

7 We can go on to number 9. Does the committee make  
8 effective use of subcommittees to assist the staff on specific  
9 tasks or projects?

10 Yes. I felt that the diagnostic and therapeutic  
11 subcommittees were very effective in addressing issues specific  
12 to those areas during the development of changes to Part 35.

13 DR. WAGNER: I really like the subcommittee. They  
14 have been extremely productive. They are very intense and well  
15 focused sessions. So I would encourage the further use of  
16 subcommittees on issues, meeting between the staff and the  
17 ACMUI on these issues. It was great. It's terrific.

18 DR. CERQUEIRA: Lou, right now the breakdown as sort  
19 of diagnostic and therapeutic, which was sort of a risk-based  
20 pairing. Will this be the type of subcommittee that we would  
21 have in the future? What subcommittees do you envision?

22 DR. WAGNER: I think that is an obvious breakdown.  
23 Now since the focus is going to be more oriented toward therapy  
24 there should be some focus on subcommittees within therapy for  
25 different items and different issues. That will break down and

1 get some of these issues addressed and drawn out.

2 DR. CERQUEIRA: Dennis.

3 MR. SWANSON: I think that question probably should  
4 read, does the committee make effective use of subcommittees  
5 and individual ACMUI members. Then you can bring in your issue  
6 where you routinely call up people if you have got specific  
7 questions.

8 I think we probably have made the most effective use  
9 of subcommittees over the last two years, but prior to that  
10 there were things where individual members were brought in as  
11 consultants. That is what I am trying to get back into this  
12 because I think that has also been very effective.

13 DR. WAGNER: I think the most important point is to  
14 state that the subcommittee use is a more effective and  
15 efficient use of ACMUI committee members' time, and hopefully  
16 it is also more effective use of NRC staff time. That's a very  
17 important issue, because we don't have to meet as a full  
18 committee and a few people can really intensely get on with the  
19 issues. It certainly doesn't drag things out in a full  
20 committee meeting and have things belabored with discussion  
21 that just never ends.

22 DR. CERQUEIRA: A very positive response for the  
23 subcommittee program, and it is encouraged in the future.

24 MS. HANEY: One more.

25 DR. CERQUEIRA: Number 10. Does the scope and size

1 of the committee meet the current needs of the NRC?

2 Yes. I think the scope and size are appropriate. I  
3 would hope that all positions can be filled in a timely manner  
4 so that the level of expertise remains consistent.

5 Lou.

6 DR. WAGNER: This has been an issue since I've been  
7 here and it has not been solved. I believe it is one that  
8 should be addressed before the Commission. I am very  
9 disappointed in the fact that there are lots of positions that  
10 don't seem to get filled in an appropriate time when they are  
11 vacated. I don't know if we still have the radiation safety  
12 officer position officially filled. Is that filled?

13 MS. HANEY: No.

14 DR. WAGNER: Then we use nuclear medicine people and  
15 other individuals who should be representing things and we have  
16 these large gaps at times with people not filling these  
17 positions. When we know a position is going to be vacated, it  
18 should be announced well before it is vacated, and there should  
19 be a replacement coming in right after it's vacated. The  
20 person who is going out should know who the replacement is  
21 going to be.

22 I don't know what the rules are with regard to all  
23 these things, but it seems to me that a more effective lead  
24 time to get those positions filled promptly would make the  
25 ACMUI more effective. It also would make the ACMUI more

1 efficient, because the subcommittee then would have a full  
2 staff or complement of representation in order to get their  
3 jobs done.

4 This has been an issue since I have been here. It  
5 has never gotten resolved, and I am still disappointed to see  
6 how this whole process is going.

7 MS. HANEY: Let me ask one thing that I would like  
8 under this question for the committee to put something on the  
9 record for. Last year when we went up to the Commission with  
10 who was on the membership, there were some positions that were  
11 cut, one of them being a radiation oncologist position, which  
12 would take us down to one oncologist on the committee.

13 We are in the next step of the process for filling  
14 some of these positions. It is a long administrative process  
15 to get someone seated.

16 One of the things that we asked the Commission to  
17 reconsider was having two oncologists back on the committee.  
18 The rationale that we gave for that was that the oncology  
19 profession is so diverse. Basically, we said it is very hard  
20 to find one person that can address everything.

21 I guess I would like your comments on whether you  
22 agree with that.

23 DR. WAGNER: Are you saying that Judy Stitt's and Dr.  
24 Flynn's positions be combined into one?

25 MS. HANEY: Last year they were combined to one.

1       However, we have gone back to the Commission from a staff level  
2       saying that we would like two positions.  Actually, Dr. Flynn  
3       had also written a letter to Chairman Jackson at that point  
4       saying that it was not wise to do that.  Some of the reasons  
5       that I just gave you is what Dr. Flynn had given.

6                 Since we have got this topic before us, if they  
7       decide to against that, I could also say in the October 1999  
8       meeting the committee reinforced the need for two oncologists  
9       on the committee.  I don't want to put words in your mouth, but  
10      if you would like to say that.

11                DR. WAGNER:  Absolutely.  The facts are you are  
12      looking at risk, and that is where the risk is.  That is where  
13      the doses are delivered; that is where the radiation levels are  
14      high.  There is where you have such a wide variety, and it is  
15      expanding in its scope in terms of applications.  There is no  
16      way in the world you can have representation from one person  
17      who knows it all.  That's impossible.

18                I think that two people is absolutely essential to  
19      the proper function of this committee from that standpoint.  
20      That is the biggest area that really needs representation from  
21      the medical community.

22                MS. HANEY:  Thank you.

23                DR. CERQUEIRA:  Right.

24                MS. MCBURNEY:  I agree with that.  With all the  
25      things that we are going to need to be addressing at least in

1 the near future on the emerging technologies, the labeled  
2 antibodies, intravascular brachytherapy, and so forth, there is  
3 probably not a single oncologist that is doing a lot of all of  
4 that, plus teletherapy as well as the radiopharmaceutical  
5 therapy and so forth.

6 MS. HANEY: There is definitely one oncologist. If  
7 the Commission goes the preferred route, there would be two  
8 oncologists, the radio pharmacist position, the radiation  
9 safety officer. The research position was one of the ones that  
10 was cut last year by the Commission. I have a paper upstairs,  
11 but off the top of my head that's it.

12 Dr. Alzeraki is still on the committee. She  
13 unfortunately had jury duty, so she could not come today. So  
14 we do have diagnostic represented. They are just not here  
15 today. And John Graham is also still on the committee but  
16 because of death of one of his supervisors there were some  
17 responsibilities he needed to pick up.

18 John is here for another year. Lou, you are here for  
19 two more. Does that sound right?

20 DR. WAGNER: I thought it was one, but maybe it is  
21 two.

22 MS. HANEY: I think you are two, because I think we  
23 renewed you.

24 DR. WAGNER: If you can put with me for another year.

25 MS. HANEY: Sure. You're going to help me implement



1 this rule. As long as we can continue to argue the 5,000  
2 millirem reporting threshold I need you around.

3 DR. CERQUEIRA: Those are some very good points. I  
4 guess one of the things that does come up is how wide a group  
5 do you need. Talking about the radiation oncology, with the  
6 emerging technologies some of the cardiology community feel  
7 somewhat under represented in the sense that we have sort of a  
8 diagnostic cardiologist, but as that representative I am  
9 certainly not an expert in any way in intravascular  
10 brachytherapy. So there is some expertise within the  
11 cardiology community that is not represented, and I certainly  
12 don't quality to represent.

13 You can't every opinion, but at the same time if this  
14 is going to be an important area in the future, then I think  
15 that consideration should be given as well.

16 MS. HANEY: We always have the option of inviting  
17 someone to the meetings. I would just say that when you do see  
18 the agendas coming out, if you think there is someone that we  
19 do need to invite, if you can give us feedback, we can do it.  
20 I think we are going to get to the point we are going to need  
21 to bring in some of the cardiologists that are working in the  
22 therapy area to sit in as an invited guest. That is probably  
23 going to be an obvious one, because I think we will be dealing  
24 with T&E issues for them soon.

25 If there a particular meeting that you think we

1 should invite somebody, please let us know. We can do that.  
2 We've never had a problem with bringing in an invited guest.

3 What we will do is take these and refine them a  
4 little bit just to help you out some. Then we will send it  
5 back out to you. If you want to change it, feel free to change  
6 it. My intent is not to put words in your mouth. If you don't  
7 like what you see, make sure you tell us.

8 DR. CERQUEIRA: Cathy, this is not going to be  
9 presented to the Commissioners tomorrow; is that correct?

10 MS. HANEY: No.

11 DR. CERQUEIRA: This is sort of an ongoing process.

12 MS. HANEY: This is a separate action.

13 DR. CERQUEIRA: I think it might be a good idea to  
14 send it out to people. For some people this is first time they  
15 have seen this, and it might be worthwhile for them. I am sure  
16 that people will add specific comments and input.

17 MS. HANEY: Even on your flight back, if something  
18 comes to mind and there is more information, just send me an  
19 e-mail and we can incorporate it right away.

20 MS. HOBSON: Can I just make one comment?

21 DR. CERQUEIRA: Sure.

22 MS. HOBSON: Earlier you were talking about using  
23 e-mail and conference calls, and I think that is a great idea.  
24 I have benefited greatly from the face-to-face meetings and  
25 hearing the interaction between the committee members and among

1 the committee members, because each of you come from an area of  
2 expertise that I don't know about. So it's really very  
3 beneficial to me to hear all this discussion. Conference calls  
4 are fine as long as everybody is hooked up and I can eavesdrop  
5 in on these conversations. But one-way e-mails would not be  
6 real beneficial to me.

7 MS. MCBURNEY: You don't have the group dynamics.

8 DR. WAGNER: All e-mail should be copied to everybody  
9 on these communications.

10 MS. HANEY: I think we are doing that. I hope we are  
11 doing it.

12 DR. WAGNER: I think it is.

13 MS. HOBSON: As long as I get everybody's input.

14 DR. WAGNER: There shouldn't be any private  
15 conversation going on with these kind of issues.

16 MS. HOBSON: I need it probably the most of anyone.

17 DR. CERQUEIRA: I was just appointed to this HCFA  
18 committee which is now under the Federal Advisory Committee  
19 Act, which has very strict rules. I don't think you are  
20 allowed to have conference calls because it constitutes a  
21 public meeting without public access.

22 MS. HANEY: We did check into that. Like the meeting  
23 we had where we had a couple of members. We went through our  
24 lawyers. My understanding was that we could do a meeting by  
25 phone except it would have to be noticed as a public meeting

1 and the phone lines would need to be made available to the  
2 public to call in. That would be a meeting where we were  
3 making decisions. Just an informal one-on-one or two-on-one  
4 where it is almost like scoping early things like --

5 DR. CERQUEIRA: Does it require a Federal Register  
6 notice?

7 MS. HANEY: Diane, was it Federal Register or just a  
8 public meeting notice?

9 MS. FLACK: I'm not sure about that. But you have to  
10 provide a room that people can go to.

11 MS. HANEY: I don't think we will go that way. That  
12 would almost be if there was something we needed an answer on  
13 in two weeks and we knew we couldn't bring you in. My intent  
14 is not to go to that. I agree with Niki. There is a big  
15 benefit of sitting around a table and talking about it.

16 MR. SWANSON: I think it goes beyond that. I think  
17 there is probably something to be said for body language.

18 [Laughter.]

19 MR. SWANSON: For example, Office of Protection from  
20 Research Risk for IRB activities mandate that if you have a  
21 local research context, which means that if you are doing  
22 research someplace else, you have to have a representative from  
23 someplace else. They will only allow video conferencing. They  
24 will not allow telephone conferencing because they believe  
25 there is something to be said about body language. In reality,

1 there probably is something to be said about body language.

2 DR. WAGNER: What am I saying right now?

3 MR. SWANSON: I know what you are saying all the  
4 time.

5 DR. CERQUEIRA: Let's take a five-minute break.

6 [Recess.]

7 DR. CERQUEIRA: I would like to welcome everybody  
8 back for the start of the next session, which is going to be  
9 the preparation for the October 21 Commission briefing on the  
10 revision of Part 35, Medical Use of Byproduct Material.

11 Cathy and Diane have provided some overheads which  
12 are under Part 35 Vugraphs, ACMUI.

13 MS. HANEY: These viewgraphs have already gone to the  
14 Commission. So we really don't have the option of changing the  
15 text. We could change it if we absolutely had to, but my  
16 recommendation is not to.

17 DR. WAGNER: Cathy, we meet tomorrow at 2:00 with the  
18 Commission; is that correct?

19 MS. HANEY: No, at 9:30. It's on the One White Flint  
20 building, the other building, on the first floor. If you just  
21 come in and say you are going to the Commission hearing room,  
22 there are there. Be there before 9:30, because they do start  
23 promptly at 9:30.

24 The format is that I will do a half hour  
25 presentation. Then they will ask me questions or drill me for

1 30 minutes. Then you guys will switch seats. You will come up  
2 to the table. I would plan for a half hour presentation, no  
3 more than that. Then you get drilled for a half hour.

4 Chairman Dicus is trying very hard to stick to  
5 schedule. The other thing that she is trying to do is to let  
6 the individuals go through the entire presentation before  
7 asking questions. If you remember from previous ones, the tend  
8 to jump in. But any thing is open. That is what they are  
9 trying for.

10 You should have copies of my viewgraphs, the ones  
11 that I will be using.

12 DR. CERQUEIRA: Cathy, do you want to go over yours  
13 and then go to ours?

14 MS. HANEY: I can.

15 DR. CERQUEIRA: What we should try to do with today's  
16 meeting is go over the specific material that we want to cover,  
17 but also to assign somebody from the committee that will be  
18 making the presentations.

19 DR. WAGNER: Could you brief us quickly about the  
20 composition of the Commission as it stands today?

21 MS. HANEY: Right now Greta Dicus is still chairman.  
22 She will be chairman until next Friday. Next Friday we will  
23 get a new chairman. I think Dick is his first name. Dick  
24 Meserve will become the new chairman.

25 Tomorrow you will just have Chairman Dicus. You will

1 have Commissioner McGaffigan, who you have met with before.  
2 Commissioner Merrifield, who when you briefed him in March last  
3 year -- he'll be off on your right -- this was the first time  
4 he had heard anything about medical.

5 That will be it sitting at the table tomorrow.  
6 Commissioner Diaz is not here. They did try to tie him in by a  
7 phone line to a briefing this morning and it didn't work real  
8 well. So they are probably going to try it again. You may  
9 hear this voice, and that's Commissioner Diaz. You have met  
10 with him also. So until next Friday we are with a four-person  
11 Commission.

12 DR. WAGNER: It keeps changing.

13 MS. HANEY: It does. Once Chairman Jackson left we  
14 needed a chairman. We can't have an acting chairman. That's  
15 why they moved Dicus in. Now we have the new one. It keeps us  
16 on our toes.

17 What I could do is go briefly through what I'm going  
18 to say, and I'm going to tell you some places where I think  
19 maybe you could help and some comments that you might want to  
20 add. When we get to that specific area on your viewgraphs, you  
21 will have an idea of where we are going.

22 Page 1 is just the briefing outline.

23 DR. CERQUEIRA: This under the Part 35 viewgraphs for  
24 staff, which is the last tab.

25 MS. HANEY: I am not going to go much into the

1 background because of the time, and they have heard a lot of  
2 before, but I will be stressing continuous interaction. You  
3 may want to comment on the interaction that you know of that  
4 has taken place and how effective that has been.

5 Then just the purpose of the SECY paper, which is  
6 that four inches of paperwork that we mailed you.

7 Key issues for Commission consideration. The idea  
8 here is, these are the big ones that we are bringing to you,  
9 Commission. At the same time there are probably about 300  
10 other little ones that are in this package, but I don't have  
11 enough time to go through all of those issues with you.

12 These are here because either they were concerns of  
13 the Commission where they asked us specific questions, or they  
14 were concerns of the stakeholders that I thought really needed  
15 to come to their attention in this sort of this meeting.

16 The first thing that we discuss on page 5 is the need  
17 for a formal risk assessment. The Commission had asked us to  
18 come back with the pros and cons of doing a formal risk  
19 assessment. I will be emphasizing here that the rule is risk  
20 informed, that we have made significant reductions in the  
21 unnecessary regulatory burden in the diagnostic area; there  
22 there are still some prescriptive requirements for the therapy,  
23 but we believe that is warranted by risk.

24 Page 6 is the Radiation Safety Committee. I will be  
25 explaining that the comments were fairly well split on the



1 Radiation Safety Committee. Health physicists, radiation safety  
2 officers tended to believe that the committee should not be  
3 deleted at all. Hospital administrators, physicians did not  
4 necessarily see the need for the committee and felt that it was  
5 better to give the licensee the flexibility on how to manage  
6 their program.

7           We took a risk-based approach in developing the draft  
8 final rule. We went ahead for the sake of the slide and used  
9 the subparts. Subpart E would be your unsealed therapies;  
10 subpart F is your manual brachytherapy; and H is your therapy  
11 devices. If you have two or more in that area, you would need  
12 to have a radiation safety committee.

13           The other condition is that if you have two or more  
14 types of units under subpart H, like if you have a remote  
15 after-loader in a gamma radiostereotactic unit, you would need  
16 a radiation safety committee. The idea here is that we would  
17 bringing the different disciplines together to discuss issues.

18           Viewgraph 7 is your training and experience  
19 requirements. I need to focus here on the fact of why we are  
20 no longer going with approval of training programs, because in  
21 March I was pitching no exam, we'll approve training programs.  
22 We have evolved from there to the point where we don't think we  
23 should get into the approval of training programs. Rather, we  
24 are going to be relying on the preceptor to certify that the  
25 individual is competent to function in their particular

1 position, whether it's a radiation safety officer or an  
2 authorized user.

3 We did increase the hours in some areas over the  
4 proposed rule, especially in the diagnostic areas.

5 DR. CERQUEIRA: One point here. On page 8, the CRCPD  
6 committee concerns, are you going to bring up some of the  
7 issues? I guess the Commissioners met with the Agreement  
8 States.

9 MS. HANEY: Right. This would be one area where I  
10 would identify the fact that, Commission, I'm aware that you  
11 heard yesterday that there were some differences, but in this  
12 particular area there was a difference, the SR-6 Committee  
13 believing that the training and experience for use of I-131  
14 should be higher than what is in the draft final rule.

15 The kick-outs here in the rule the use of I-131 are  
16 almost specific to the endocrinologists. I would mention that  
17 the track record of use of I-131 by endocrinologists has been  
18 very good, and that because of that, we could not justify an  
19 increase in the hours. However, we did increase the hours in  
20 the 35.300 area, which is the unsealed byproduct material,  
21 because that section is not just limited to I-131 use.

22 That was the argument probably a year and a ago that  
23 Dr. Flynn made about some of the pharmaceuticals that are being  
24 used under 35.300 can get into bone marrow suppression, and the  
25 risk is higher. Therefore we increased the hours there.

1 DR. CERQUEIRA: I guess the one comment I would like  
2 to make is with 31 Agreement States just in terms of training  
3 people who don't come in through boards, it would be very  
4 important to have uniform federal policy at least for the  
5 diagnostic.

6 MS. HANEY: You have got some viewgraphs that are  
7 specific to training. That is the area where you probably want  
8 to bring that up.

9 DR. CERQUEIRA: Does the staff support this?

10 MS. HANEY: That is a tricky question. I guess I  
11 personally don't disagree with you. However, when we take a  
12 rule and we decide what level of adequacy or compatibility  
13 should be assigned to the rule, there stepping stones that we  
14 go through, and we call it a management directive. Using that  
15 management directive is how we arrive at the compatibility.  
16 Training came out at a C.

17 In order to get it to a point where the states would  
18 have the same requirements, we have to either say it is  
19 equivalent to Part 20 sort of issue, a dose limit or  
20 definition. The only other one that would kick it out higher  
21 is if we could say this is a matter of interstate commerce. I  
22 don't think we can argue on that.

23 Then you go to the next tier, which is where you are  
24 right now, that the states have to have the option of being  
25 more restrictive if they want to.

1           So this is a matter not so much with Part 35. The  
2 issue is with the adequacy and compatibility policies that we  
3 use.

4           The Commissioners are aware that this is an issue.  
5 This is getting back to what Dennis had said. This is one of  
6 those ones I have talked with them about, and their technical  
7 assistants know. I think you should use this as your  
8 opportunity for you to make that pitch about the differences.  
9 Even this morning Commissioner McGaffigan questioned Dave on  
10 the I-131 training and said you may be fighting this on 31  
11 fronts or 32 fronts as compared to just with NRC.

12           I don't want to say that they are happy where we are,  
13 but I haven't heard that they aren't. Again, the states have  
14 the option of being more restrictive on this. So they are  
15 aware of this issue.

16           DR. CERQUEIRA: I think if this were a category B  
17 instead of a category C, it would certainly be greater  
18 simplification for people that are out there.

19           Dr. Siegel is expressing some body language. Barry,  
20 do you have any comments?

21           DR. SIEGEL: Only that states have different medical  
22 licensure requirements. I don't see how you could ram one down  
23 their throats. The Constitution didn't give this particular  
24 power to the federal government.

25           DR. CERQUEIRA: Good point.

1 Ruth.

2 MS. MCBURNEY: That's true. The comments made by Mr.  
3 Walters were those representing the Suggested State Regulations  
4 Committee. It did not represent the whole Organization of  
5 Agreement States' position. They have not taken a position.  
6 The states have not had an opportunity to review those  
7 suggested state regulations. You couldn't do a brush that all  
8 the states are going to want to go that way.

9 Would this be a good opportunity for me to clarify  
10 something from the minutes of the last briefing? I was quoted  
11 as being an endocrinologist and having to do with the training  
12 and experience on that. Apparently that was not my quote. It  
13 was someone else. I'm certainly not an endocrinologist.

14 I would concur on the 80 hours being adequate for an  
15 endocrinologist for the single isotope that they use.

16 DR. CERQUEIRA: We will have an opportunity to bring  
17 up some of these issues. It would be helpful if the staff also  
18 could anticipate some of the things we are going to say.

19 MS. HANEY: Number 9 is the threshold for the  
20 unintended exposure to embryo/fetus/nursing child. In the  
21 paper we have recommended that the rule have a 50 millisievert  
22 threshold for reporting. There are those that are still  
23 arguing the 500. I would say this is an area where I think you  
24 guys really need to get some technical facts on the table about  
25 the effects of the difference between 500 and 5,000 millirem

1 exposure on an embryo, fetus or a nursing child.

2 We have a backup slide that references some AAPM and  
3 NCRP information. It's on page 25. What I would like to have  
4 happen tomorrow, if I get the more technical questions directed  
5 to me about the statistics, the percentages, what effects you  
6 see, I'm going to defer to the ACMUI. Back in the March  
7 meeting, Lou, you did the presentation, and it was wonderful.  
8 I think even though it's almost a repeat of some of the things  
9 you said back in March, we might want to consider that type of  
10 presentation again.

11 This is one where what you are fighting against is  
12 good rems and bad rems. NRC is in constant discussion with EPA  
13 over whether dose limits at Yucca Mountain should be 15  
14 millirem or 25 millirem, and, Cathy, you're saying embryo/  
15 fetus can get 5,000 millirem. Does you see a problem here,  
16 Cathy?

17 That is some of the perspective of where these  
18 comments are coming from. Then you look at the Part 20 limits  
19 where the public dose limit is 100 millirem and the limit to  
20 declared pregnant women is 500. It is like, why are you such  
21 an order of magnitude off?

22 This is what you are working against or with.

23 The next one is the notification following a medical  
24 event or exposure. After the March briefing when we received  
25 the SRM, the Commission asked us to come back with an

1 alternative rule language. That alternative rule language  
2 would only have the licensee certifying to us that the patient  
3 or responsible relative was notified.

4 I have pointed out that the committee has voted  
5 against any notification. I think that is one of the items in  
6 your viewgraphs. However, I think you might want to consider  
7 how much do you want to support this.

8 It is kind of like if I can't have exactly what I  
9 want, is this one step better? Is this one step in the right  
10 direction?

11 All the Commissioners have different views on this  
12 particular item and some feel stronger than others.

13 The additional CRCPD SR-6 Committee concerns have to  
14 do with the criteria for release of individuals containing --  
15 well, 35.75. There are two things here. One is they would  
16 like the authorized user to sign the record of the release.

17 The other thing is they would like a statement in the  
18 rules that says that once the patient is released, goes home,  
19 if contaminated material triggers a landfill monitor they want  
20 a statement in the rule that says the state could still hold  
21 the licensee responsible for that material.

22 From NRC's standpoint -- I am not sure of the legal  
23 situation with this -- if you have made a release in accordance  
24 with our regulations, how can you go back and say that it was  
25 not an adequate release?

1           In this area the states can be more restrictive.  
2 This may be just one of those situations were we back off and  
3 say, states, you can be more restrictive, but we are not going  
4 to go there because you don't see this in our rule.

5           The other particular item has to do with  
6 brachytherapy treatments. We have in our rule that you can  
7 house or quarter two patients together that have had unsealed  
8 therapy, and you can house two together that have manual  
9 brachytherapy. The states will probably not authorize two  
10 unsealed patients being in the same room. Our position is that  
11 the dose that one is receiving from the other is  
12 inconsequential in light of the amount of that they are  
13 receiving from their particular treatment.

14           DR. CERQUEIRA: Cathy, one question about the release  
15 and the releasing institution being held liable. Is this a  
16 safety issue or a financial issue from the states?

17           MS. HANEY: I think you will hear both arguments.  
18 It's obviously financial, because it's the states that have to  
19 go out to the landfills. When the alarm goes off, they have to  
20 go out. In some cases is tech waste; in some cases iodine  
21 waste, but you might find that manual brachytherapy seed that  
22 is out there too that a facility has lost. So they need to go  
23 out and check. Then you have got the state physicists out  
24 there going through garbage at the landfills. It is a  
25 financial, it is resource drain.



1           Then there are those that will argue that it is a  
2 safety issue. In the early 1990s when the ACMUI discussed this  
3 rule, it was, is the patient the leaky source? The  
4 documentation we used to support the rulemaking was that the  
5 patient was not a leaking source and that if the licensee  
6 considered the maximally exposed individuals, any doses that  
7 anyone other than that received would be well below that limit.

8           DR. CERQUEIRA: Is there a consistency within the  
9 states at what level of activity these systems are triggered?  
10 Is it possible that they are set too low?

11           MS. MCBURNEY: There is not a real consistency now.  
12 There has been some guidance put out by the Conference of  
13 Radiation Control Program Directors. Landfill operators can  
14 set levels on their own.

15           DR. CERQUEIRA: My concern is if you are going to  
16 hold these hospitals liable for non-dangerous levels of  
17 radiation, that is a fairly high liability for the cleanup if  
18 there is no safety issue involved. If you have adequate  
19 thresholds for detecting dangerous radiation levels, then I  
20 think that would be appropriate. Otherwise these institutions  
21 are going to assume large liabilities without any safety risk  
22 to the users or the public. I'm not sure we want to  
23 necessarily impose that.

24           DR. WAGNER: I'm very confused about this issue. I  
25 don't understand the points that you brought up in regard to

1 this. I don't know if this is the time to talk about this or  
2 not. It seems to me that the issue of trying to make a user  
3 responsible for a legally released substance is silly.

4 The problem is that you have to be able to  
5 distinguish for the landfills what is a source that needs to be  
6 investigated and what isn't a source that needs to be  
7 investigated. That needs to be solved. That is the issue that  
8 needs to be solved. We don't solve this from a regulatory  
9 point of view, trying to throw the responsibility back on the  
10 user who legally released the patient. That's silly.

11 MS. HANEY: That's why we differ in this area,  
12 because we did not put a corresponding requirement. If we get  
13 into this tomorrow, hopefully the representative from our legal  
14 counsel will be there to address the legal aspect of it as  
15 compared to the safety aspect of it. This is one of those  
16 issues where you may have to fight on a state-by-state level as  
17 compared with NRC.

18 DR. SIEGEL: Just a question, Cathy. The underlying  
19 regulations that are causing this problem are EPA regulations  
20 that preclude disposal of radioactive materials in these  
21 landfills?

22 MS. HANEY: I don't know if it's an EPA regulation  
23 per se, but I know that the states do have regulations that say  
24 no radioactive material in the regular sanitary landfills.  
25 Therefore, the alarms are being set very low to catch it, and

1 as soon as the alarm goes off, then you have to respond to it.

2 MS. MCBURNEY: Cathy, we are one state that allows  
3 certain levels of short-lived isotopes to go to the sanitary  
4 landfills. Certainly we have this problem of the detectors  
5 going off. A lot of times it's material that is being allowed  
6 to go there. Not only from released patients, but also  
7 material from hospitals that we under regulation have allowed.

8 They have to set those detectors low enough so that  
9 they would pick up like a sealed source in a big truckload of  
10 material. That is what we don't want to get in there. So we  
11 have to accept that there are going to be hits on those  
12 detectors for other material as well.

13 DR. CERQUEIRA: Dennis.

14 MR. SWANSON: I doesn't make any sense to me. You  
15 are not concerned about us flushing all the stuff down the  
16 sewer?

17 MS. MCBURNEY: That's not the point. We tell them to  
18 put it down in there if that's what it is, but we have to  
19 respond not knowing what it is and where it came from.

20 DR. WAGNER: There has got to be a technical solution  
21 to this.

22 MS. HANEY: From 35's standpoint it's a non-issue.  
23 It's not a non-issue for any of the regulators across the  
24 board.

25 Let me tell you about 15. The emphasis here is going

1 to be that we are going to continue to use a specific license  
2 for Part 35 licensees. We have made a significant reduction in  
3 the amount of material that needs to come in in support of a  
4 license application. There have been those that have commented  
5 and said, fine, you're not going to look at it at the time when  
6 you license someone, but you are going to get into a detailed  
7 review of procedures at the time of inspection. The answer to  
8 that is, no, we are not going to go into detailed review of  
9 procedures at the time of inspection unless it is warranted.  
10 For example, like we are going up to follow up on a medical  
11 event.

12 Then we only expect minimal changes to the  
13 enforcement policy, mostly because of changes in terminology  
14 and some of the thresholds in there. The whole issue of what  
15 is going on with the enforcement policy is a separate effect.

16 Page 16. The estimate is 3 FTE to complete the  
17 rulemaking, medical policy statement and the NUREG, which is  
18 the guidance date. As far as our best guess of what we are  
19 looking at when we would finished, if we get a staff  
20 requirements memorandum in November, we will have three to four  
21 months to finish everything we need to finish. Then OMB has 90  
22 days to give us an OMB approval for any of the recordkeeping  
23 requirements. We would probably publish in the Federal  
24 Register mid-2000 with an effective date of six months out.

25 There are a couple backup slides here that if you

1 want to reference or use, you are always welcome to.

2           The first five pages is just a chart where we went  
3 through to show what regulations applied to what type of use in  
4 the unsealed material area. On the first page it looks like  
5 there are a lot of checks there. You have the purpose and the  
6 scope section, the definition section. Most of this is just  
7 your paperwork sort of stuff. There really aren't any  
8 requirements there.

9           As you get into subpart B, the first couple set up a  
10 radiation safety program and supervision, and then you have the  
11 training issues at the end.

12           It isn't until you really hit subpart C that you are  
13 looking at the requirements that really cause the licensee to  
14 do something in their day-to-day operation.

15           The take home message here is that in the diagnostic  
16 area, the 35.200, while they do have the requirements to comply  
17 with others in the general nature, there really are very few  
18 requirements in the diagnostic area.

19           Page 23 is just the training and experience  
20 requirements that are in the draft final rule. That is two  
21 pages.

22           Then we have a little bit of backup on the  
23 recommendations for the exposure to the embryo, fetus and  
24 nursing child. If they want to go more into a projected  
25 schedule, this is more detailed.

1           The last two pages are something that should have  
2 been in front of you when you sat down. This is something that  
3 the specific Commissioners had asked that we incorporate. This  
4 is a comparison of what the draft final rule says and the  
5 current Part 35. You can go down and see where the differences  
6 are.

7           Page 28 is the alternative rule text that we put  
8 forward for the report notification of the medical event. This  
9 is gets into if you would only be requiring certification  
10 versus getting more detailed and getting into the reports that  
11 are required.

12           That is my spiel tomorrow.

13           DR. CERQUEIRA: Any questions for Cathy on any of  
14 this?

15           Barry.

16           DR. SIEGEL: This certification for medical event,  
17 was it proposed that that also apply to the pregnancy breast  
18 feeding as well?

19           MS. HANEY: Yes.

20           DR. SIEGEL: Then the question for Dr. Cerqueira is  
21 whether the committee ever actually officially voted to endorse  
22 that as a better than nothing alternative. The committee is on  
23 record as saying no notification is what we think is  
24 appropriate because it is already being done and you don't need  
25 a federal rule.

1 DR. WAGNER: No regulation for notification.

2 DR. SIEGEL: I think Cathy asked the question earlier  
3 whether the committee would want to take a stand on this as an  
4 alternative if you can't have exactly things the way you wished  
5 them to be. This might be better than the current language.

6 MS. HANEY: Page 7 says that. We can always talk  
7 around things if we have to. If we have to change a viewgraph,  
8 we can change it.

9 I think if you aren't prepared to discuss it, you  
10 will get asked, what are your views on the alternative rule  
11 text?

12 DR. SIEGEL: Actually, the question I was asking was,  
13 has the committee ever actually voted on that?

14 MS. MCBURNEY: I don't think we have met since then.

15 MS. HANEY: No, they haven't met since then.

16 DR. SIEGEL: I am sort of suggesting you might wish  
17 to.

18 DR. CERQUEIRA: Dennis.

19 MR. SWANSON: I think if you look at our viewgraph on  
20 this, it says ACMUI does not support any regulation requiring  
21 notification of physicians and patients as this is redundant to  
22 existing standards of care.

23 Then it has on here "alternative rule language  
24 provided by staff preferred over existing requirements."

25 So your viewgraph sort of does comment on that or

1 leave it open for discussion.

2 DR. CERQUEIRA: If we have to support that, we can do  
3 it individually, but we don't have any sort of committee formal  
4 vote on it.

5 DR. WAGNER: Can we address that when we address our  
6 viewgraphs?

7 DR. CERQUEIRA: That's fine. Any further questions  
8 for Cathy on the staff presentation?

9 DR. WAGNER: In regard to the training issues, are  
10 you going to be saying anything different than what was said in  
11 previous meetings? I'm very confused.

12 MS. HANEY: There are a couple of things. One is  
13 that I do not believe NRC needs to approve training programs.  
14 I said that in March.

15 The other thing I will be saying differently is that  
16 we have split out the training and experience requirements for  
17 the use of strontium 90 eye applicators. In the proposed rule  
18 we recommended that the hours go up to match that for that for  
19 a radiation oncologist.

20 Based on continued discussion and the impact on the  
21 use of these devices, if we were to up these hours, we  
22 reconsidered whether we should make any changes in this  
23 particular area.

24 We went back and looked at why we did it, which was  
25 all the misadministrations we have had with eye applicators.



1 The root cause is really that either the sources were not  
2 calibrated an untraceable to NIST, or else the sources were not  
3 decayed properly. So rather than put in a training requirement  
4 an up to three years and possibly patients couldn't use it  
5 because there wouldn't be physicians that were qualified to use  
6 it, we put a requirement in the rule very specific to this that  
7 said the sources have to calibrated to NIST and only an  
8 authorized medical physicist may decay the sources.

9 We used a slightly different approach with this, but  
10 my believe is that this will fix it more than requiring a  
11 physician to have the three years of training just to use the  
12 strontium 90 eye applicator. So that is different than what I  
13 have told them.

14 MS. MCBURNEY: Which training and experience?

15 MS. HANEY: 491.

16 MS. MCBURNEY: So it's back to 24 hour.

17 MS. HANEY: Yes. It's back to 24 hours.

18 The other thing that the Commission has not heard  
19 before but I believe you all have is that under 290 and 390,  
20 the 700 hours. We are no longer breaking down the classroom  
21 and laboratory and the work and clinical experience. It's  
22 basically physician complete a 700-hour training program and  
23 cover these specific issues. It still says physics and math  
24 and all that, but the hours are not there. Then these are the  
25 things that we want you to master under the handling of the

1 material.

2 Off the top of my head, I think that is all that they  
3 haven't heard before.

4 From the standpoint of ACMUI, it's about the same  
5 thing. All these hours were agreed to at the last meeting with  
6 the exception of the 491 going back to 24 hours.

7 DR. WAGNER: I understand the not approving training  
8 programs. You are going to recognize various board  
9 certifications in the programs.

10 MS. HANEY: Right. We are still going to do that.  
11 What we have asked the Commission to do is to give us  
12 permission to start that recognition process now so that  
13 everything is in place by the time the rule becomes effective.  
14 The nice thing about doing that, Lou, is it took away the two  
15 implementation effective dates of the rule because we were  
16 having to keep subpart J on the book until we got boards  
17 approved, and no one understood why we had subpart J  
18 requirements plus the requirements in the modality base  
19 sections. We said, well, once we got rid of the exam, what is  
20 keeping us from implementing this immediately, and it became  
21 the recognition of the boards. We thought if we start that  
22 right now, the boards have almost 18 months to get their  
23 requests into us.

24 The last two pages of that four inches of paperwork  
25 that you have is a model letter, and it says, dear board, we

1 are doing this rulemaking. We are going to start the  
2 recognition process now. All you need to do is send us a  
3 letter that says, dear NRC, I certify that in order to sit for  
4 my board the individual must complete the alternative training  
5 pathway, would have at least had so many hours and have a  
6 preceptor form. Sincerely yours.

7 DR. WAGNER: What about alternative training pathways  
8 other than boards?

9 MS. HANEY: The alternative is what you see on page  
10 27. You still need a preceptor.

11 DR. WAGNER: There is no examination required.

12 MS. HANEY: Correct.

13 DR. CERQUEIRA: There is no hourly specifications for  
14 any specific components the way it used to be.

15 MS. MCBURNEY: In the diagnostic. There is in 490  
16 and 690.

17 DR. CERQUEIRA: Further questions for Cathy?

18 Lou.

19 DR. WAGNER: I am still trying to recall all the  
20 rationale and the reasons. I know the boards all have  
21 examinations. That's how you become board certified. You have  
22 to pass the examination. It's pretty stringent, and it really  
23 is an incentive for people to study. In the alternative  
24 requirements you don't have that. You have a preceptor  
25 statements, which seems to me to be a cushy little way to go.

1           Why did we remove the examination requirement from  
2 the alternative pathway where they don't have one? You  
3 wouldn't have to approve it, but you could require it.

4           MS. HANEY: One of the reasons we removed was when we  
5 increased the hours for the diagnostic users over what was in  
6 the proposed rule -- in the proposed rule we proposed only 120  
7 hours of training. So when we increased the hours we figured  
8 that the individual was getting more training, and therefore  
9 there wasn't that much of a need for the exam.

10           Then there were a lot of implementation issues  
11 associated with the examination that came into play. Also we  
12 looked at the history. The easiest one is to look in the  
13 radiation oncology area. Right now we have physicians that are  
14 coming in through the alternative pathway, which is basically  
15 three years and 200 hours of training.

16           We don't have a history to show that that has not  
17 provided adequate radiation safety handling of the material.  
18 So without the justification of why is there a need for the  
19 exam, I really couldn't justify it. The same thing for users.  
20 In the 35.390 we actually increased hours.

21           Does the exam automatically guarantee that someone  
22 knows how to handle a material safety? What we heard was, no,  
23 it doesn't. We started looking for tradeoffs by increasing the  
24 hours, by adding this increased burden on the preceptor form.  
25 We felt that provided adequate assurance.

1 DR. CERQUEIRA: Dennis.

2 MR. SWANSON: One of the questions I have is, should  
3 this committee specifically go back and take a look at the  
4 changes that appear in the current draft final for 390, 392,  
5 and 394 since there were some changes made there?

6 Personally, I have some problems with the  
7 interpretation of some of that language.

8 MS. HANEY: Specific to training?

9 MR. SWANSON: Yes.

10 MS. HANEY: Okay. I don't know if you want to do  
11 that or not.

12 DR. CERQUEIRA: We have got the time. Not everybody  
13 has the actual language. I don't.

14 MS. HANEY: We have copies. Let me say this. What  
15 you might want to do is focus on your viewgraphs first and  
16 maybe everything but training and experience, and then come  
17 back to that. I think some of these viewgraphs, as soon as you  
18 decide who is going to say what and some key points, we can  
19 move real quickly through them and we wouldn't be rushing  
20 through it at the end of the day, and then we could have a  
21 little more time to focus on the T&A.

22 DR. CERQUEIRA: Why don't we do that. We will go to  
23 Part 35 viewgraphs, the ACMUI. There is a total of 8 pages  
24 there.

25 I guess we are going to have to delete John Graham

1 from the people listed on the front.

2 MS. HANEY: You can just say why he's not there,  
3 because they will be looking for him.

4 DR. CERQUEIRA: If we go to page 1, we have sort of a  
5 briefing outline, which basically goes through what we are  
6 going to do.

7 If we go to page 2, we have the general comments.

8 Dennis is not going to be with us, is he?

9 MS. HANEY: No. Dennis had a conflicting engagement  
10 this week.

11 DR. CERQUEIRA: We are going to talk about what is  
12 there, what we are going to say, and who is going to say it.

13 Does anybody have any disagreement with any of those  
14 bullet items?

15 MS. MCBURNEY: I think it's pretty much what we had  
16 last time.

17 DR. CERQUEIRA: Yes.

18 MS. MCBURNEY: I would still concur with that.

19 MS. HANEY: Chairman Dicus will hand off to you.

20 DR. CERQUEIRA: I could do these general comments.

21 It doesn't take much input.

22 MS. MCBURNEY: The outline and the comments.

23 DR. CERQUEIRA: Then we go to the next item, which is  
24 the Radiation Safety Committee.

25 MS. MCBURNEY: I did that last time.

1 DR. CERQUEIRA: We can have Ruth do that.

2 DR. WAGNER: I don't see what we are going to say  
3 that is any different.

4 MS. MCBURNEY: Did this change?

5 MS. HANEY: No. Lou is right. The safety committee  
6 is not an issue. They may ask questions based on do you think  
7 that two is the right number, should it be three or more. I  
8 honestly don't think they will get at that level of  
9 specificity. This is more going on the record, saying again  
10 what you said.

11 In essence, there is very little that I'm saying that  
12 is new too. Maybe about five minutes worth of what I'm saying  
13 is different from March.

14 DR. WAGNER: So there are going to be less  
15 Commissioners that we are going to be talking to this time.

16 MS. HANEY: Yes.

17 DR. WAGNER: There are not going to be any different  
18 Commissioners, are there? Are there going to be any  
19 Commissioners there who weren't there last time?

20 MS. HANEY: No, unless Meserve is in the audience.

21 MS. FLACK: They are really still interested in this  
22 issue.

23 DR. WAGNER: About the Radiation Safety Committee?

24 MS. FLACK: Yes.

25 DR. WAGNER: I wish we had some perspective on their

1 concern.

2 MS. HANEY: I will tell you their concerns. One  
3 could be this is a prescriptive requirement, that we are  
4 telling a licensee you have to have a committee. That is one  
5 side of it. There are those that are arguing we should not  
6 have prescriptive requirements. Then you have all the public  
7 comments that came in from the physicists community saying that  
8 the Radiation Safety Committee is very good and serves a useful  
9 purpose.

10 So they are trying to balance a quasi-prescriptive  
11 requirement because we have made it much simpler than what it  
12 is right now. Basically it says meet once a year and look at  
13 your program as compared to meeting four times a year and all  
14 of that.

15 This is a risk-informed approach to the Radiation  
16 Safety Committee, recognizing that if you only have diagnostic  
17 nuclear medicine, you don't need a committee.

18 The buzzwords of the day, if you can get all of these  
19 into every viewgraph, you get your travel reimbursed.

20 [Laughter.]

21 MS. HANEY: These are the buzzwords of the day:  
22 Maintain safety, reduce regulatory burden, public confidence,  
23 and efficiency and effectiveness.

24 We weren't using those words back in March, Lou. Any  
25 time you can incorporate these words without saying Cathy told



1 me to say this.

2 DR. WAGNER: That flows very well with the  
3 recommendation.

4 DR. CERQUEIRA: Certainly for the Radiation Safety  
5 Committee. Basically we have allowed the single use physician  
6 who can act as his own radiation safety officer.

7 Ruth, do you know what E, F and H are? When Cathy  
8 did her presentation she basically identified.

9 MS. MCBURNEY: I wrote those down.

10 DR. CERQUEIRA: If you are doing dangerous, multiple  
11 source radiation, then you do need the committee.

12 MS. FLACK: Cathy mentioned early on that the  
13 Commissioners were especially interested in the effect on the  
14 stakeholders.

15 DR. WAGNER: Maybe it would be good to mention to the  
16 Commission that administrative law is when you have the higher  
17 risk situations. Administratively it is much easier for the  
18 physicists and the radiation safety individuals, who are mostly  
19 the ones concerned about this, to justify the establishment of  
20 a committee. When you don't have the regulatory requirement  
21 behind that, they don't have the administrative authority to  
22 get that done.

23 I think it is something that is needed in this case.  
24 So it's a very reasonable to do to satisfy that need, because  
25 it says it's something that is important.

1 MS. MCBURNEY: As was mentioned earlier, there are  
2 probably not oncologists that do all these things. It is good  
3 to have them come together and talk to each other.

4 DR. CERQUEIRA: Exactly right.

5 Dennis, any comments on the Radiation Safety  
6 Committee?

7 MR. SWANSON: No.

8 DR. CERQUEIRA: We are going to skip the training and  
9 experience, page 4, and we will come back to that.

10 Then we are going to go to medical event. Lou, you  
11 did that last time?

12 DR. WAGNER: I don't think so. That was done by Dr.  
13 Stitt.

14 DR. CERQUEIRA: Yes, Barry.

15 DR. SIEGEL: Suggestion. Reject it immediately if  
16 you disagree with me. I have a concern that splitting this up  
17 so much in terms of the formal presentation of the slides is  
18 going to come off looking like a dog and pony show as opposed  
19 to you just doing it fairly quickly, making the point that what  
20 you are largely doing is reiterating important issues that you  
21 brought to the Commission's attention at the last briefing, and  
22 that you and the other members at the table are prepared to  
23 address their very specific questions on some of these issues  
24 at the conclusion of the presentation.

25 I think that if you keep passing the baton, it is

1 going to look peculiar. That is just my sense listening to you  
2 talk about how you are going to do it.

3 DR. CERQUEIRA: We could certainly do it that way.  
4 That would give them the opportunity to focus on the specific  
5 issues that they have raised which we are not fully aware of.

6 DR. WAGNER: I would much rather do it that way.  
7 Then we could address their concerns.

8 DR. SIEGEL: That is especially true if what Cathy  
9 said is correct, that Greta Dicus will let you get through your  
10 presentation before you start getting interrupted. If you are  
11 going to get interrupted at every slide, then there is some  
12 advantage to identify who the appropriate respondent is, but if  
13 you are going to get through it, then when there is a question  
14 about the pregnancy stuff, you can say, I'd like to let Dr.  
15 Wagner address that question because he is the world's renowned  
16 expert on radiation exposure of a potentially pregnant female.

17 DR. CERQUEIRA: That's fine. I would be very happy  
18 to do that. I guess if we go all the way through it, would it  
19 help to bring back the viewgraphs, or should we just let them  
20 basically do a free form question and answer session?

21 MS. HANEY: After you do your presentation, Dicus  
22 will open it up. She goes first and asks all of her questions.  
23 Then she will turn to McGaffigan. McGaffigan will jump you all  
24 over the place. Then Merrifield will do the same thing.

25 DR. CERQUEIRA: We don't know if Diaz is going to be

1 asking.

2 MS. HANEY: If the phone line works, he will actually  
3 come after her. They go in ranking order, seniority order.

4 DR. CERQUEIRA: That would be a good way to do it,  
5 because they will already have the viewgraphs ahead of time,  
6 and I'm sure their staff has sort of brief them.

7 MS. HANEY: They already have these.

8 MS. MCBURNEY: They probably already have their  
9 questions.

10 MS. HANEY: They do.

11 DR. WAGNER: So the idea would be that we won't be  
12 addressing this individually, that you are going to be going  
13 through the slides as a brief overview, and then we are to say  
14 that we are here to answer for the ACMUI any of the concerns  
15 that you may have regarding our position on these topics.

16 DR. CERQUEIRA: Okay.

17 DR. WAGNER: That really is good, because that cuts  
18 to the chase.

19 DR. CERQUEIRA: Excellent suggestion.

20 MR. SWANSON: One comment would be, do you want to  
21 specifically comment on any changes since we last talked?

22 DR. CERQUEIRA: Am I going to remember that?  
23 Cathy, what did we change?

24 MS. MCBURNEY: We need to go through them.

25 DR. WAGNER: I don't see anything we changed on the

1 Radiation Safety Committee.

2 MS. HANEY: The T&E, there was a change.

3 Then on viewgraph 6, in March when we briefed the  
4 Commission we said 5 rem. We were pushing it to go into Part  
5 20. Regardless of whether it went in part 20 or not we wanted  
6 it at a 5 rem level. I guess that really isn't a change.

7 I can't emphasize enough that you emphasize the  
8 impact on medical practice in this particular area based on  
9 what is really happening out there. That's the public comments  
10 that we received.

11 Viewgraph 7 is a change because this alternative rule  
12 text came into being. Say you haven't changed your mind on the  
13 first one; you still believe that, but whatever you want to say  
14 on the second bullet.

15 Implementation challenges is really the same thing  
16 with the exception of this early recognition of medical  
17 specialty boards, and you all are in the right place to say we  
18 really think they should move ahead because we want this in  
19 place by the time the rule becomes effective.

20 DR. CERQUEIRA: Right.

21 Niki, there are two items where your input would  
22 really be helpful to the Commissioners, and that is the  
23 unintentional exposure to the fetus or the embryo and the  
24 notification. They kind of see us as professionals who to some  
25 extent have a vested interest or an agenda to promote.

1           Earlier today you expressed some strong feelings  
2 about the notification, and I think if you could make some of  
3 those points, it would actually have much more of an impact  
4 coming from you than coming from us.

5           MS. HANEY: I think they will ask directly. My guess  
6 is there will be a question directed directly at Niki about  
7 that.

8           I think when you do introduce the members sitting  
9 with you, Dr. Cerqueira, it probably is good to say the  
10 perspective that they are coming from so that they are aware  
11 that Niki is patient rights and Ruth is state and Lou is  
12 physics.

13          DR. WAGNER: Shall we go through the slides and see  
14 what we are going to say?

15          DR. CERQUEIRA: Yes. I will go through and then I  
16 will give them the opportunity to ask questions.

17          We have identified minimal changes other than the  
18 training and experience in terms of what we presented last time  
19 and this time.

20          I am not going to make additional comments on these  
21 things.

22          MS. HANEY: At the same time, you don't need to read  
23 them the viewgraphs either. Ruth is right. They have had your  
24 viewgraphs for other a week now, and they pretty know what you  
25 are going to say based on these viewgraphs. I would pick a

1 couple of things out of each one of these viewgraphs that you  
2 want verbally on the record. A lot of the briefing is getting  
3 things on the record.

4 On page 2, for example. I think you could probably  
5 say the ACMUI does believe that the draft final rule is  
6 risk-informed and more performance based, and we do see where  
7 there is a focus on the higher risk procedures. That almost  
8 covers that first bullet.

9 On the stakeholder involvement -- I'm not making you  
10 say these words -- we endorse the Commission's efforts to  
11 involve the public in this through the entire process. We  
12 recognize that there have been several public meetings.

13 This is one where you might want to hit the public  
14 meeting aspect. Involving the regulated community, you do  
15 recognize that the rule has changed for the best because of  
16 this involvement.

17 DR. WAGNER: I don't suspect the Commission is going  
18 to have any direct questions with regard to these general  
19 comments.

20 MS. HANEY: They won't, but I will tell you, Lou,  
21 they have really been pushing the stakeholder involvement.  
22 That is all I would say about this viewgraph, and I would move  
23 on.

24 DR. WAGNER: So Dr. Cerqueira should just make sure  
25 he emphasizes that stakeholder involvement issue.

1 MS. HANEY: Yes.

2 DR. WAGNER: It's the other slides that are really  
3 the meat, because the Commission has to come back and say,  
4 okay, now we have a question about the ACMUI's position on this  
5 issue.

6 MS. HANEY: Yes.

7 DR. CERQUEIRA: Right.

8 DR. WAGNER: Are there any issues with regard to the  
9 Radiation Safety Committee other than what we already  
10 discussed? I don't think so.

11 MS. HANEY: I don't think so.

12 DR. WAGNER: We are going to come back to training  
13 and experience. Is that true, Dr. Cerqueira?

14 DR. CERQUEIRA: We keep saying we are going to come  
15 back to it. Should we just do it now?

16 MS. MCBURNEY: Let's just do it.

17 DR. WAGNER: Let's just do it.

18 DR. CERQUEIRA: We said before clinical environment;  
19 the alternative pathways in addition to the boards; the  
20 preceptor statements.

21 Do we want to emphasize some of the changes that we  
22 have put in here, getting into the details?

23 MS. HANEY: I don't think so. I think it's  
24 sufficient to say that you endorse the alternative pathway,  
25 period. That is at least what we heard at the March from you



1 guys. Then just drop it there and let them come back and ask  
2 any specific questions.

3 We have a letter from the American College of  
4 Radiology, saying that they are happy with the 700 hours. That  
5 is about the only letter that we have received since the draft  
6 final rule was made available to the public on the hours.

7 The American College of Nuclear Physicians S&M did  
8 submit a letter to us that commented on several areas in the  
9 rule but it did not specifically address the duration of the  
10 training program.

11 I am assuming that everyone is more or less happy  
12 with where we are because they haven't sent me any letters.

13 DR. CERQUEIRA: Either they are happy or they are  
14 just tired. We've worn them out.

15 I have a pretty good handle on this. The things that  
16 we said we wanted to emphasize during the discussions we had  
17 the other day was basically the national standards. I can make  
18 some good points there, I think.

19 DR. WAGNER: Is there anything that we should be  
20 concerned about with regard to Commission queries or rumblings  
21 or issues with regard to training and experience?

22 MS. HANEY: They may ask you about the I-131  
23 endocrinology use, because that is something that they heard  
24 from SR-6 Committee.

25 DR. WAGNER: The issue being the 80 hours of

1 training?

2 MS. HANEY: Yes. Do you believe 80 hours is  
3 sufficient or do you believe that it should be raised to 700  
4 hours?

5 DR. WAGNER: I think the committee's answer to that  
6 is we agree with the 80 hours.

7 MS. HANEY: Correct. That's what you have told me.

8 DR. SIEGEL: And the safety record that has been  
9 presented.

10 I think you would also probably want to emphasize on  
11 that last bullet that even though this is Part 35 and you are  
12 doing a lot, the Commission is not off the hook, because it is  
13 going to need to grapple with what to do with training and  
14 experience requirements for intravascular brachytherapy and  
15 other emerging technologies in the very near future.

16 DR. CERQUEIRA: Right. I think the FDA is about to  
17 approve one of the devices for intravascular brachytherapy for  
18 cardiac use.

19 I think we are pretty much in agreement from the  
20 committee in terms of the regulations that have been proposed.

21 The medical event, endorse the final draft rule.

22 DR. WAGNER: This is one we are going to have trouble  
23 with because we don't have good representation on the committee  
24 from oncology. What should we be on our guard about here?

25 MS. HANEY: Actually, I have not heard anything from

1 the Commission with a concern about medical events at all.  
2 That doesn't mean they won't bring something out of the  
3 woodwork on us, but I think this is basically we like where the  
4 threshold is.

5 This one I did not talk about in my presentation. At  
6 this point it is one of the lesser issues with the rule. We  
7 did include it here because the ACMUI addressed it back in  
8 March. We felt that this would be something more that you  
9 might want to endorse again.

10 DR. WAGNER: I can't remember exactly what all our  
11 criteria were. I know we endorsed it, but I can't remember  
12 about the adequately capture events of concern and the dose  
13 thresholds. I couldn't recite those right now.

14 DR. CERQUEIRA: Can you do that, Ruth? I don't think  
15 I can.

16 MS. HANEY: I don't think we are going to that level  
17 of specificity on this. The big issues were patient  
18 intervention and wrong treatment site. I think if you just say  
19 that the changes to the rule adequately address those two  
20 issues, they are not going to go further than that. I may be  
21 eating my words at 11:30 tomorrow.

22 DR. WAGNER: We can only prepare to the extent that  
23 it's reasonable.

24 DR. CERQUEIRA: I will have to do a song and dance.  
25 If I am really stuck, if people know some of the information,

1 please volunteer.

2           Six is the unintentional exposure to  
3 embryo/fetus/nursing child. I think that is pretty  
4 self-explanatory in terms of the threshold.

5           DR. WAGNER: The thing that I am going to address  
6 there, which apparently you tell me is their concern -- I must  
7 admit I really get disappointed when people try to compare this  
8 situation with the embryo as being a member of the general  
9 public. That is just so inappropriate. You can't compare this  
10 to an embryo of a working mother. That embryo is clearly a  
11 member of the general public. You can't compare this to an  
12 embryo of a member who is out there walking on the street or  
13 walks by your facility or even works as as secretary within  
14 your facility. That clearly is a member of the general public.

15           This is a woman who is sick and happens to be  
16 pregnant. You cannot separate those two biologically. You  
17 cannot treat those two independently. You always have to do it  
18 with the full recognition that that woman is pregnant.  
19 Therefore, this is not a member of the general public, and quit  
20 comparing it to that. That's the problem.

21           Then from there on we have to discuss the level of  
22 reporting. That's the point.

23           DR. CERQUEIRA: Okay.

24           DR. WAGNER: I don't know whether there is anything  
25 else I should be aware of on this issue.

1 MS. HANEY: Somewhere is going to come up the impact  
2 on medical care. What I will have said already is that this  
3 possibly could lead to an increase in pregnancy testing because  
4 there are several diagnostic tests that will trip the 500  
5 millirem level. Barry gave me some information about the  
6 different diagnostic tests that would trip the level, and there  
7 are several, eight or nine or so. Are you going to pregnancy  
8 test as a result of it?

9 The other issue would be the preferred provider  
10 issue, that the nuclear medicine facility may not be the same  
11 one as the laboratory as far as preferred provider, so now  
12 you've got an issue with the patient having to go multiple  
13 places.

14 Somewhere along the line we heard that there was a  
15 chance that HCFA might not reimburse for this type of pregnancy  
16 test, but I don't know if that is true or not. Maybe someone  
17 here knows.

18 DR. SIEGEL: HCFA is not entirely relevant since very  
19 few pregnant people are 65 or older.

20 MS. HANEY: You never know.

21 DR. SIEGEL: It could be Medicaid.

22 MS. HANEY: Insurance. Somebody said it.

23 These are not in order of importance. The other big  
24 one is that physicians may start ordering other types of  
25 diagnostic tests that would be less effective. Therefore you

1 are impacting the health care to the female population.

2 MS. MCBURNEY: The other one that might come up is,  
3 is there a level greater than 500 millirem that will not have  
4 an impact?

5 MS. HANEY: That may come from Merrifield. As I  
6 said, Barry went through this and I should have Xeroxed this  
7 for you. It looks like most of the diagnostic tests, if the  
8 threshold was a 2 rem -- we talked about this before. I think  
9 you said, if I had to live with something less than 5, I could  
10 go with 2. Two might be pushing it a little bit. We might  
11 want to go up to 3 rather than 2. Split the difference.

12 DR. WAGNER: The issue has to be based upon something  
13 that is solid and something that is real. It can't be  
14 something that is fictitious or artificially made up.

15 MR. SWANSON: Let me ask you this question. I  
16 understand the congressional reporting requirement of 5 rems.  
17 What is the NRC going to do with reports between 2 and 5 rems?

18 MS. HANEY: We could do a couple of things. We could  
19 look at the circumstances of why the event occurred. We could  
20 get information out to other licensees under an information  
21 notice of don't let this happen to you.

22 MR. SWANSON: Is that in turn going to lead to you  
23 coming back and saying, well, you should have pregnancy tested  
24 this individual? What are your alternatives?

25 MS. HANEY: Right now we are pitching this as a

1 reporting limit and not a dose limit. I don't want to tell you  
2 if you call me and tell me that you had somebody at 3 that we  
3 wouldn't come out and do an inspection. Just because you trip  
4 this level does not mean that it's a violation or it doesn't  
5 even mean that it is a violation.

6 We are gathering this information and we would  
7 compare it against what the standards of practice would be.  
8 For diagnostic tests it is just ask the question. As long as  
9 your techs are just asking the question and if the patient  
10 lied, there is nothing your techs can do about it. If you get  
11 into the therapy area, the standards are the pregnancy test.

12 DR. WAGNER: This whole issue is going to get  
13 extremely complex. In reality, if you want to deal with this  
14 on the perfect level, you have to go into what is the gestation  
15 age and what is the dose and what is the risk associated with  
16 that, and all these other things. That is not something at the  
17 reporting level that we should be getting into. It is just too  
18 complicated. Those are all medical issues. What we need to do  
19 is make sure that this thresh old applies to all stages of  
20 pregnancy, from even prior to conception, at the ripening of  
21 the follicle. Go all the way back, and then from there on out.

22 It is very difficult to address this in an  
23 appropriate way, because from a regulatory basis it shouldn't  
24 go there. So we need a threshold that is proper for reporting,  
25 that takes into account all those issues. That is why we have

1       been emphasizing the 5 rem issue. That basically covers it  
2       from the reporting point of view.

3               DR. CERQUEIRA: Is this controversial with the  
4       Commissioners?

5               MS. HANEY: Yes, it is.

6               DR. CERQUEIRA: We have presented this to them  
7       before. Do you think they will have specific questions?

8               MS. HANEY: Yes.

9               DR. CERQUEIRA: Given that we have already made  
10       recommendations?

11              MS. HANEY: If I had to guess, this and patient  
12       notification is what you are going to spend your half hour  
13       talking about.

14              DR. CERQUEIRA: Here is where Lou can certainly  
15       provide all the factual information.

16              Niki, do you have a strong feeling on this, or do you  
17       fully understand the issue that is involved?

18              MS. HOBSON: On the 50?

19              DR. WAGNER: 50 millisieverts versus the 500  
20       millirem.

21              DR. CERQUEIRA: Part of the implications of this is  
22       that you would basically almost have to do a pregnancy test on  
23       every woman within childbearing age who is getting these  
24       studies done, which would have tremendous financial  
25       implications, but more importantly, really would not reduce in



1 any significant way the risk to the fetus.

2 MS. HOBSON: If she does happen to be pregnant, you  
3 are going to scare the woman out of her wits. The popular  
4 culture of any exposure to radiation is that it's going to  
5 produce three-headed monsters. That is the image.

6 MS. MCBURNEY: This is a reporting level to NRC that  
7 we are talking about now.

8 DR. WAGNER: Right.

9 MS. MCBURNEY: You would not have to tell?

10 MS. HANEY: It's both, Ruth. That is part of what  
11 Lou is getting at. The importance there is that once you  
12 report to NRC, then you are also notifying the woman, and you  
13 may be notifying her at this very low threshold. If it is the  
14 500 millirem threshold, are you unduly alarming this woman?

15 DR. WAGNER: I think the other issue that is very  
16 important is the coverage of the very early pregnancy and how  
17 the reporting level of 500 millirem essentially conflicts with  
18 standard of care in regard to the pregnant woman who is sick  
19 and how we manage those issues. Clearly this 500 millirem is  
20 in conflict with that. Therein lies our dilemma. We have to  
21 make sure that the reporting threshold is appropriate for all  
22 the stages of pregnancy.

23 MS. HOBSON: What happens you know a woman is  
24 pregnant and she also has a fatal disease?

25 DR. WAGNER: That is not unintentional. This only

1 refers to the unintentional issue.

2 DR. CERQUEIRA: Barry has got a comment.

3 DR. SIEGEL: That is the entire problem here. The  
4 problem is that the current standard for the vast majority of  
5 diagnostic tests is to use a variety of mechanisms to try to  
6 determine whether or not a patient is pregnant short of doing  
7 formal pregnancy testing on everyone, which still misses  
8 pregnancy in the first ten to 14 days. So you can't know about  
9 that even if you did pregnancy testing.

10 The only way you could do that is do what has been  
11 recommended in some European countries, which is actually in  
12 order to perform radionuclide therapy is to do a pregnancy  
13 test, then provide the patient with careful instructions  
14 regarding birth control and/or abstinence, and then 14 days  
15 later do a repeat pregnancy test, and then administer the  
16 therapy, which is insane. Just insane.

17 Since you are dealing with a patient population where  
18 the standard of care is just to ask the responsible question,  
19 then once you know whether or not the patient is pregnant --  
20 let's assume the patient is pregnant -- for the vast majority  
21 of these diagnostic tests you now say to yourself, is there a  
22 better non-radiation diagnostic test that could answer this  
23 question? If there isn't, you do the test anyway. So even  
24 knowing that the patient is pregnant doesn't change your  
25 behavior as a physician.

1                   That is in some ways, Manny, the point that I think  
2 you need to make most importantly, that this has the potential  
3 to really interfere with the way we make decisions from moment  
4 to moment, because it is putting the NRC in this reporting  
5 requirement in the position of maybe telling us that we  
6 shouldn't be going ahead and doing this test based on our best  
7 belief that this patient is not pregnant because of concern  
8 that we might later find out that she was pregnant.

9                   DR. CERQUEIRA: That is a good point that I could  
10 make.

11                   Ruth, do you have any comments that might help Niki?

12                   MS. MCBURNEY: I think setting it at 5 as a reporting  
13 level does address what Lou is saying. At that level, from a  
14 regulatory standpoint, then you might want to go back and look  
15 at were there any procedures that weren't followed.

16                   DR. CERQUEIRA: We will go through this. Lou, I  
17 think we will depend heavily on you if there are specific  
18 questions related to this. Basically it doesn't change very  
19 much from the position that we said before.

20                   MR. SWANSON: Is there any way we can tie the buzz  
21 words into this argument?

22                   DR. WAGNER: I will do my best.

23                   MS. MCBURNEY: What were those again?

24                   DR. CERQUEIRA: Maintain safety, decrease regulatory  
25 burden, increase public confidence, and efficiency and

1 effectiveness.

2 MS. MCBURNEY: It's consistent with what you are  
3 reporting to Congress.

4 MS. HANEY: What they may do is argue public  
5 confidence. If you take those that have the idea that any  
6 radiation is going to produce a three-headed baby, how does NRC  
7 setting a reporting limit at 50 millisievert increase public  
8 confidence?

9 DR. WAGNER: I think at this point the answer to that  
10 is quite clear. It's not a matter of public confidence; it's a  
11 matter of patient confidence.

12 MR. SWANSON: Congress has set a reporting limit at 5  
13 rem.

14 DR. SIEGEL: No. The NRC set the reporting limit at  
15 5 rem.

16 MS. MCBURNEY: To Congress.

17 DR. SIEGEL: The Congress didn't tell them where to  
18 set the number.

19 MS. MCBURNEY: But it's consistent.

20 MR. SWANSON: Now we are arguing about defining a  
21 lower reporting limit. Why are we even arguing that point?  
22 NRC has already set it at 5 rem.

23 MS. HANEY: I think what you are arguing though,  
24 Dennis, is we have the reporting requirement to Congress at 5,  
25 but every other one of our reporting requirements is lower in

1 the regulation. So our policy in the past has been we want to  
2 hear about things before we have to tell Congress. This would  
3 be the only AO reporting requirement that we would not hear  
4 about until it hit the threshold that we needed to report to  
5 Congress.

6 MS. MCBURNEY: The difference is that this is a  
7 patient versus a normal member of the public.

8 MS. HANEY: That is actually what got us down this  
9 path. About two years ago we revised our abnormal occurrence  
10 criteria, and this was one of the items that was caught up in  
11 that revision, and the Commission came back and said, well,  
12 it's a great AO criteria, but if you don't have the requirement  
13 for a licensee to report to us the information, then we are not  
14 going to be able to tell Congress about it. So the direction  
15 was to incorporate this into the regulations.

16 It is almost something that should go into a more  
17 general requirement, either our Part 20 or Part 30, 40 or 70,  
18 which are specific to the use of the material. This is not  
19 just limited to medical. We considered a lot of things, and  
20 the best thing was let's just fix 35. Where most of these  
21 reports are going to come from are going to be the medical  
22 environment as compared to non-medical. Once we get this all  
23 done, we will go back and look and see if we need to do  
24 rulemakings in any other areas.

25 DR. CERQUEIRA: Dennis.

1           MR. SWANSON: I can't seem to get my point across.  
2           It seems like the NRC has set as the reporting limit to  
3           Congress that there is a safety issue here at 5 rem. It seems  
4           to me like the only reason why we are reporting them at 500  
5           millirems is to satisfy an advance notice situation for the  
6           NRC, which has nothing to do with safety. In fact, it erodes  
7           the patient-physician relationship, so it is eroding public  
8           confidence. It increases regulatory burden if we go the 500  
9           millirem reporting requirement.

10           You have established a safety level already. This is  
11           just advance notification. That's all this is.

12           DR. CERQUEIRA: Those are very good points.

13           DR. WAGNER: Another case of a regulation written for  
14           the sake of a regulator.

15           MR. SWANSON: Right. So what are going to do with  
16           this information?

17           DR. CERQUEIRA: Those are good points. I will try to  
18           make some of those and let Lou handle the more detailed  
19           questions.

20           Niki, if you could make some comments on this, it  
21           would help.

22           Page 7 is notification following medical event or  
23           exposure to embryo/fetus/nursing child.

24           MS. HANEY: What you are battling against here is  
25           what level of assurance does NRC need in order to assure that

1 the patient was informed.

2 DR. WAGNER: This is where we have to go back and  
3 address what we were addressing earlier about whether the ACMUI  
4 is now take a position on this alternative rule that might come  
5 as a compromise. Is that right?

6 DR. CERQUEIRA: What page was that?

7 MS. HANEY: Let's try just looking at the last page  
8 of my viewgraphs. It should be number 28, which is alternative  
9 rule text. The notification part stays the same. You still  
10 have to notify the referring physician and the individual.  
11 That's the same.

12 Under certification, you are actually certifying that  
13 the licensee notified the individual. We would get a letter  
14 that said, "I certify that the patient was told," period.  
15 That's all the information NRC would get.

16 The business about the copy of the report and a  
17 description of the event, we would stay away from that. The  
18 concern from the Commission is going to be, are physicians  
19 telling their patients when medical events or  
20 misadministrations happen?

21 There have been just as many articles published that  
22 say, no, they are not, as there have been saying, yes, they  
23 have been. You can't go article against article on it.

24 At the March briefing the committee was asked in  
25 other areas of medicine are you telling the patient. If the

1 answer is yes, then I think you need to come across and say  
2 yes, we are telling the patients. Just kind of leave it there.  
3 They are looking for that assurance that it is happening.

4 DR. WAGNER: Are you saying there is no change to the  
5 rule itself except the enforcement issue?

6 MS. HANEY: Lou, in the draft final rule text we kept  
7 the requirment as is. We had no reason to change it at that  
8 point, because everything we have gotten officially from the  
9 Commission says continue to require patient notification.

10 In the March SRM they gave us a little bit of a  
11 window and said, however, you can give us alternative rule text  
12 that would allow for certification. This is what this is.  
13 They have it as an attachment to the rule package.

14 What you want the Commission to do is to replace the  
15 rule text that is in the draft final rule with this alternative  
16 rule text if they will not delete it.

17 If they will not eliminate the requirement, you can  
18 do your pitch for why it should be eliminated, and you can even  
19 stop there and let them come back an ask questions on the other  
20 one. Like I said, you don't need to say everything that is on  
21 the viewgraph. They may come back and say, but on your  
22 viewgraph you said. Then I think you can say, well, as a  
23 compromise the alternative rule text is better than what you  
24 have right now.

25 DR. WAGNER: Tell me if I'm wrong. If we go that



1 route, then the notification issue would be basically  
2 eliminated and replaced with a certification issue.

3 MS. HANEY: No. You would still have the  
4 notification. E would still stay in the rule text.

5 MR. SWANSON: What she is basically saying is that  
6 would still have the requirement in the rule text that you have  
7 to notify the patient. What you are doing away with is the  
8 requirement that you have to give the patient a copy of the  
9 written information. You can verbally notify the patient.  
10 Then what the NRC wants to see is a certification statement  
11 that says "I notified the patient," period.

12 DR. SIEGEL: That gets to the heart of one of the  
13 problems, which is that you go and you talk to the patient on  
14 the day the event occurs and you say, we did this, it was a  
15 mistake, we're sorry, we have to reschedule your test because  
16 we gave you the wrong stuff, the radiation dose is not a  
17 problem. Then 15 days later the patient gets a very formal  
18 looking letter and they say, you know, maybe that doctor wasn't  
19 telling me the truth. I'd better call my lawyer.

20 That is what doctors are fretting about. As it turns  
21 out there is almost no case history that indicates that this  
22 leads to malpractice litigation, but by the same token it is  
23 just one more thing. To use Dennis' term, it erodes the  
24 patient-physician relationship when it's just a face-to-face  
25 conversation about this is what we did and these are the

1 potential consequences.

2 DR. WAGNER: So this does eliminate the written  
3 notification?

4 DR. SIEGEL: It gets rid of the written notification.

5 MS. HOBSON: If there is no possibility that harm was  
6 done to the patient, what is the purpose of the notification?  
7 Why should you tell them anything unless there is real  
8 potential for harm? I think the patient does deserve to know.

9 MS. MCBURNEY: I think the patient deserves to know.

10 MS. HANEY: NRC has taken a position that the patient  
11 should be told and the patient needs to know.

12 MS. HOBSON: But it is so frightening. If you are a  
13 cancer patient, you are already fighting for your life. Then  
14 you have this additional burden put on you, which doesn't solve  
15 any problem at all.

16 MS. HANEY: Niki, that is what they are going to look  
17 to you tomorrow to say. They were saying specifically were you  
18 going to be at the meeting. I think tomorrow you need to say  
19 that to them.

20 We have had previous patient rights advocates that  
21 were very much in support of the rule. But you are coming at  
22 it from a different perspective.

23 DR. SIEGEL: You are addressing the issue of  
24 therapeutic privilege, which is a very important one. In  
25 general, the ethical principle says that if a doctor makes a

1 mistake, you should tell the patient you made a mistake even if  
2 it's inconsequential.

3           What you were just addressing was if my telling this  
4 patient may actually put this patient less at ease overall or  
5 may -- I don't want to use the word "harm", but may in fact  
6 make this patient's anxiety level higher inappropriate, with no  
7 benefit, then my therapeutic privilege as a physician acting  
8 literally in that patient's best interest is to just keep on  
9 going and not bring it up.

10           On the other hand, if I'm always acting in my own  
11 best interest, I'm better off getting it right out on the table  
12 and saying, I made a mistake. The court records on that are  
13 eminently clear. I am far more likely to have major damages  
14 assessed against me if I tried to cover something up

15           MS. HOBSON: It isn't my purpose or agenda to try to  
16 protect the physician. If a physician does something that is  
17 wrong, that is malpractice or against medical ethics, et  
18 cetera, they should pay the price. But if it's within the  
19 tolerance that we have been talking about where no actual harm  
20 has occurred, I think the act of notifying the patient is  
21 harmful because it increases the stress level. As Dennis says,  
22 it erodes the patient-physician relationship. It makes the  
23 patient less confident that the world is going to be okay, that  
24 the medical community can take care of my illness.

25           MS. MCBURNEY: But there are levels. It is not

1 within those tolerances. It is that that falls outside that  
2 tolerance.

3 MS. HOBSON: But aren't those levels set so  
4 conservatively that you can really predict whether or not that  
5 is going to cause harm? Unless there is scientific  
6 documentation that this misadministration or medical event is  
7 going to cause harm to the patient, I feel very strongly that  
8 it is harmful to drag them through this notification process,  
9 because it just raises all kinds of other worries in their  
10 minds, and they have got enough worries already.

11 DR. CERQUEIRA: That is a good point. I think the  
12 staff's alternative basically makes certain that you don't have  
13 physicians that are doing this repeatedly, because now they are  
14 still required to notify the NRC.

15 MS. HOBSON: I don't have a problem with notifying  
16 the NRC.

17 DR. CERQUEIRA: Yes, but the patient would also  
18 receive this notice. Even though the patient has been  
19 reassured and everything, it would create a whole lot of other  
20 problems.

21 Dennis.

22 MR. SWANSON: I think you also need to understand the  
23 regulations do allow at the advice of the referring physician  
24 not to notify you if they do think it's stressful. I think Dr.  
25 Siegel pointed that out. If it is viewed that it would be too

1 stressful for you, the regulations say that you don't have to  
2 tell them, except for the responsible relative.

3 DR. SIEGEL: Which is a mess, because the current  
4 interpretation of the responsible relative issue means that you  
5 can't get out of notifying because you think it will actually  
6 harm the patient. It has to also harm the responsible  
7 relative.

8 DR. CERQUEIRA: I think these points have been made  
9 in previous meetings. Pretty much the Commissioners are  
10 somewhat concerned about this, because they don't want to give  
11 the appearance of covering up anything by not notifying  
12 patients. I think the committee feels very strongly that we do  
13 need to make this point, and we will reiterate it.

14 Dennis.

15 MR. SWANSON: One comment about your alternative rule  
16 language. You have a regulatory requirement to notify the  
17 patient and you have a regulatory requirement to notify the  
18 referring physician, but you only have to certify that you  
19 notified the patient. I hate to add additional certifications,  
20 but it doesn't make sense why you wouldn't also certify that  
21 you informed the referring physician if that is part of the  
22 regulatory language. The current language focuses on the  
23 problem, which is the patient notification issue.

24 MS. HANEY: Probably (vii), certification that the  
25 licensee notified the referring physician and the individual.

1 DR. WAGNER: I would actually word it entirely  
2 differently. I'd say that you certify that you complied with  
3 item E, period.

4 MR. SWANSON: You could do that, too.

5 DR. WAGNER: That takes everything out of there.  
6 That you complied with item E. That way you might not have  
7 notified the patient because the referring physician may have  
8 said, don't do this, she's too high strung right now, this is  
9 going to be too much of a problem. I'll take care of it.

10 MS. HANEY: Lou, I don't think that would be an issue  
11 to change that, but I think the issue is whether we would  
12 accept certification at all.

13 DR. WAGNER: Is the committee going to take a stand  
14 on this? I would vote that the committee agree with the  
15 alternative ruling with regard to notification, with the  
16 requirement that the licensee certify that item E has been  
17 complied with.

18 DR. CERQUEIRA: Right, and the referring physician  
19 and individual have been notified.

20 DR. WAGNER: By saying item E you have already said  
21 that you have carried it out. With that change in the  
22 phraseology to indicate that the certification will simply  
23 state that the licensee complied with item E, I would move that  
24 the committee endorse that change as a potential alternative to  
25 our original position.

1 DR. CERQUEIRA: Do we have a second? I guess there  
2 are only four voting members here presently. Does that  
3 constitute a quorum?

4 MS. HANEY: Yes, because we are down so low on the  
5 members.

6 MS. HOBSON: I'll second.

7 DR. CERQUEIRA: Any further discussion?

8 MS. MCBURNEY: Although I did abstain on the position  
9 that the advisory committee took not having that notification  
10 be done at all, I could support this alternative language. I  
11 think it still gets at a rule that says that you will notify.  
12 It is just a different way of doing it.

13 DR. CERQUEIRA: All those in favor of supporting the  
14 alternative rule text, as modified.

15 MS. HOBSON: I guess I should make one final comment.  
16 I haven't change my position that I think patient notification  
17 in general is a lousy idea. The alternative is definitely  
18 better than what is in the current draft. So reluctantly I  
19 would support this. If we have to say one or the other, then I  
20 would say this.

21 DR. CERQUEIRA: All those in favor.

22 [Show of hands.]

23 DR. CERQUEIRA: It's unanimous.

24 DR. WAGNER: Did you vote, Dennis?

25 MR. SWANSON: I can't vote.

1 DR. CERQUEIRA: He's not a voting member. There are  
2 only four voting members, Lou.

3 MR. SWANSON: If you want my opinion, I think what  
4 you ought to do is restate the previous position of the ACMUI.

5 DR. CERQUEIRA: Do you want me to do that during the  
6 presentation?

7 MS. HANEY: I think during the presentation you  
8 should say that the ACMUI continues to believe that there  
9 should be no requirements for patient notification, and it is  
10 up to you if you want to go on at that point and say, however,  
11 if there are going to be notification requirements, we support  
12 the alternative rule text over that which is in the existing  
13 rule, and then just go on at that point to the next viewgraph.  
14 That will come back as a discussion.

15 DR. CERQUEIRA: The version that they have is  
16 different than what we have approved.

17 MS. HANEY: I wouldn't worry too much about that,  
18 because that level of specificity is something that I can work  
19 with. When the staff requirements memorandum comes down, I can  
20 do that informally.

21 DR. CERQUEIRA: It sounds good.

22 The last two are the implementation challenges.

23 MS. MCBURNEY: You already talked about early  
24 recognition.

25 MS. HANEY: You may get a question on the guidance



1 document and about your review of it. I got a question: did  
2 the ACMUI review it? I said that you had seen the early drafts  
3 of it, but it has changed significantly since then because the  
4 rule has changed significantly again.

5           You might want to spend a couple minutes talking  
6 about if asked, committee, do you want to review the guidance  
7 document again, what your response to it would be. We all know  
8 it, but a lot of this is to get it on the record. "The  
9 guidance document should not be used to implement de facto  
10 regulation." Those are some words you might want to get out.

11           You think that there is a benefit to having model  
12 procedures out there for licensees that are less sophisticated  
13 than some of the other licensees, some of the larger licensees.  
14 However, you believe the NUREG should be as flexible as  
15 possible to allow use of multiple different types of  
16 procedures.

17           Those are some of the things that you might want to  
18 spend a couple minutes talking about if asked.

19           DR. CERQUEIRA: Okay.

20           When will this document be coming out?

21           MS. HANEY: You're not going to see it for another  
22 three months. We haven't worked on it because we want the rule  
23 finalized before we make any more changes to the NUREG  
24 document.

25           The draft that went out, we went through it as

1 carefully as we could given the time constraints to make sure  
2 there were no de facto regulations in there. We still got  
3 criticism that we were using the NUREG as a de facto  
4 regulation.

5 A lot of that had to do with just interpretation how  
6 to use it. We use the terms "should" and "shall." If we use  
7 the term someone "should" do something, that means it's a nice  
8 idea but you don't have to, there is no regulatory requirement  
9 to do it. If we say the licensee "shall" do something, then  
10 there is a regulatory tie for it.

11 I think a lot of the comments that came back is  
12 people just didn't understand the difference, but we have got  
13 that in the verbiage up front, the difference between the use  
14 of the terms.

15 Our plan is to broaden it a little bit more with the  
16 model procedures than what went out with the proposed rule.

17 DR. CERQUEIRA: Lou.

18 DR. WAGNER: I have a question with regard to the  
19 issue of enforcement and the fact that a mind-set change is  
20 going to be required to be able to adequately enforce these  
21 rules because of their lack of prescriptiveness now. It is  
22 performance based. That is going to be a difficult challenge  
23 for the NRC and also for the Agreement States.

24 I can't predict what is going to happen, but I guess  
25 one of the pet peeves I have with regard to some of the

1 enforcement regulation is that when you write your policies and  
2 procedures about how you are going to do things and then a  
3 regulatory comes in and says, well, you didn't do it exactly  
4 the way you say right here, you didn't use this disinfectant,  
5 you used this other disinfectant, but that's against your  
6 policies and procedures, so here is a citation because you  
7 didn't follow your policies and procedures. That has happened.

8           It is that kind of thing that becomes a problem. Now  
9 we have this flexibility in here, and you are being held to a  
10 different kind of standard. What we have to really reinforce  
11 to the Commission is the challenge it is going to be for  
12 enforcement to be able to look at the performance and based it  
13 just on performance and not into the nit-picking issues with  
14 regard to what is on paper, what are we writing down here, and  
15 all these other issues.

16           This is where we have got to emphasize that. I  
17 think, Manny, we have got to come in and discuss that with  
18 them. They have a big task ahead of them here. This is not  
19 going to be a small task.

20           MS. HANEY: This is a good place to pitch continued  
21 ACMUI involvement with inspection procedures.

22           DR. WAGNER: The use of subcommittee would be  
23 wonderful with this.

24           MS. HANEY: This is the place to pitch it. Continued  
25 employment for ACMUI.

1 [Laughter.]

2 DR. CERQUEIRA: Not that they need it.

3 Ruth.

4 MS. MCBURNEY: We had our annual meeting with the  
5 regional Nuclear Regulatory Commission state program staff  
6 yesterday. They were stating that they are already  
7 implementing a pilot program for performance-based inspections  
8 in the medical area.

9 No?

10 MS. HANEY: No. We're not doing it yet. It has not  
11 been approved yet.

12 MS. MCBURNEY: Okay. They told us wrong.

13 MS. HANEY: Unless they were talking about some other  
14 program. We have considered doing a pilot program in the  
15 medical area that would focus on performance where the  
16 inspector would go in and look at big picture things, were  
17 there misadministrations, were there overexposures. That has  
18 not been approved by the Commission yet. They signed off on  
19 it, but it hasn't made it to the Commission.

20 Actually, we started it back in January of last year.  
21 We had a meeting with regional inspectors and came up with what  
22 the criteria should be. Then we held a public meeting on it.  
23 I think it was January, because I couldn't come because I was  
24 snowed in. We discussed the issues with the public that came  
25 and then further refined it. Just because of different changes

1 in the paper and everything it has not gone to the Commission.

2           It ties in very much to what Lou is saying, but it is  
3 the going in, looking at the big picture thing, not getting  
4 down at the nitty-gritty unless there is cause to. The classic  
5 would be the procedures for written directives. If we are  
6 investigating a misadministration or a medical event, we are  
7 going to ask to see those procedures. Then we may say, you  
8 said you are going to do this and this and you didn't do it,  
9 and then more than likely there is a going to be a violation.

10           On a routine basis in a medical facility, we are not  
11 going to go in and say, let me see those procedures. We might  
12 say, do you have them, and then say, great, and then just not  
13 even ask to see them.

14           It is a different mind-set, but this is a very  
15 difficult change for the program. If you want to go so far as  
16 the ACMUI wants to work closely with the implementation of the  
17 rule, there are a lot of challenges with this. Our plan is  
18 once we get further along we will go out and do training with  
19 the license reviewers and the inspectors. Hopefully, once the  
20 violations start coming in we will scrutinize things more than  
21 we would for a normal sort of violation.

22           It's a big change, but it's the way NRC is going.  
23 Not just in the medical area, but in all areas.

24           DR. CERQUEIRA: We are pretty close to our ending  
25 time. We have gone through pretty much all of the viewgraphs

1 that Cathy is going to go over and that I will present and then  
2 take questions and direct it to our experts from the panel.

3 Any other points?

4 Lou.

5 DR. WAGNER: Can we address with the Commission  
6 perhaps the issue of membership of this committee and the  
7 filling of the positions in a timely manner, and just at least  
8 get our point across that this seems to be a chronic, nagging  
9 problem that has not gotten solved over the years although it  
10 has been an obvious problem and we have brought it to their  
11 attention?

12 If we could address that issue, I would just like to  
13 know that the Commission is aware that there is a problem here  
14 with getting these positions filled in a timely manner and  
15 having people and representation on this committee. This  
16 committee works real well when you have got full  
17 representation, but if you don't and you have a certain key  
18 person absent and they are not there because there is nobody  
19 filling that position, the voting ability and the consensus  
20 ability, everything just deteriorates.

21 DR. CERQUEIRA: I think those are good points. I  
22 guess just trying to politically decide whether this is the  
23 forum to do it or not is something.

24 Barry, what do you think? You've been through these  
25 things more than any of us. Is this the right place to bring

1 it up? Can you do it incorrectly?

2 DR. SIEGEL: It depends a little bit whose head is  
3 going to roll once they realize that -- I probably wouldn't.  
4 If you are going to do it, I would do it right at the  
5 beginning. I'd say, you know, there are only four of us here  
6 today, and let me tell you why.

7 I wouldn't. I'd save it for a different forum,  
8 different time. I think you need to stay focused right on Part  
9 35.

10 DR. CERQUEIRA: That is what I worry about. We have  
11 got this evaluation process which has been instituted.

12 MS. HANEY: I will put it in the self-evaluation.  
13 How about that?

14 DR. WAGNER: That's good.

15 MS. HANEY: That is going to the Commission. So  
16 we'll get it in there.

17 DR. WAGNER: That's great.

18 DR. CERQUEIRA: I think it would sort of diffuse the  
19 issue a little bit.

20 If there are no other comments, we will end exactly  
21 on time.

22 Dennis.

23 MR. SWANSON: I have specific comments on the draft  
24 language, but I will just point them out to Cathy and you can  
25 take it from there.

1 MS. HANEY: If Barry doesn't split, we can look at.

2 DR. WAGNER: Do we need a motion to adjourn?

3 DR. CERQUEIRA: Yes.

4 DR. WAGNER: So moved.

5 DR. CERQUEIRA: We are officially adjourned.

6 [Whereupon at 5:00 p.m., the meeting was concluded.]

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