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1 UNITED STATES OF AMERICA  
2 NUCLEAR REGULATORY COMMISSION

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4 OPEN SESSION

5 ADVISORY COMMITTEE ON THE MEDICAL USES OF ISOTOPES

6 (ACMUI)

7 + + + + +

8 TUESDAY,

9 MAY 20, 2003

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11 ROCKVILLE, MARYLAND

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13 The Advisory Committee met at the Nuclear  
14 Regulatory Commission, Two White Flint North, Room  
15 T2B3, 11545 Rockville Pike, at 1:00 p.m., Dr. Manuel  
16 Cerqueira, Chairman, presiding.

17 COMMITTEE MEMBERS:

18 MANUEL D. CERQUEIRA, M.D., Chairman

19 JEFFREY A. BRINKER, M.D., Member

20 DAVID A. DIAMOND, M.D., Member

21 DOUGLAS F. EGGLI, M.D., Member

22 NEKITA HOBSON, Member

23 RALPH P. LIETO, Member

24 LEON S. MALMUD, M.D., Member

25 RUTH McBURNEY, Member

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1 COMMITTEE MEMBERS: (CONT.)

2 SUBIR NAG, M.D., Member

3 SALLY WAGNER SHWARZ, Member

4 RICHARD J. VETTER, Ph.D., Member

5 ALSO PRESENT:

6 THOMAS ESSIG, Designated Federal Official, NRC/NMSS

7 ROGER BROSEUS, Ph.D. NRC/NMSS

8 RYAN T. COLES, U.S. GENERAL ACCOUNTING OFFICE

9 WILLIAM HENDEE, M.D., American Board of Radiology

10 DONNA-BETH HOWE, Ph.D. NRC/NMSS

11 MICHAEL T. MARKLEY, NRC/NMSS

12 CHARLES I. MILLER, Ph.D. NRC/IMNS

13 LINDA PSYK, NRC/NMSS

14 JEFFRY SIEGEL, Ph.D., Society of Nuclear Medicine

15 ANTHONY TSE, Ph.D. NRC/NMSS

16 ANGELA WILLIAMSON, NRC/NMSS

17 RONALD ZELAC, Ph.D. NRC/NMSS

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

(1:04 p.m.)

MR. ESSIG: As designated federal official for this meeting I'm pleased to welcome you to Rockville for the public meeting of the ACMUI.

My name is Thomas Essig, I'm Branch Chief of the Materials Safety and Inspection Branch, and have been designated as the federal official for this Advisory Committee, in accordance with 10CFR part 7.11.

This is an announced meeting of the Committee, it is being held with the rules and regulations of the Federal Advisory Committee Act, and the Nuclear Regulatory Commission.

The meeting was announced in the March 24th, 2003 edition of the Federal Register. The function of the Committee is to advise the Staff on issues and questions that arise during the medical use of by-product material.

The Committee provides counsel to the Staff, but does not determine or direct the actual decisions of the Staff, or the Commission. The NRC solicits the views of the committee, and values them very much.

I request that, whenever possible, we try

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1 to reach a consensus on the various issues that we  
2 will discuss today, but I also value minority or  
3 dissenting opinions. If you have such opinions please  
4 allow them to be read into the record.

5 As part of the preparation for this  
6 meeting I have reviewed the agenda for the members and  
7 employment interest based on the very general nature  
8 of the discussion that we are going to have today.

9 I have not identified any items that would  
10 pose a conflict. Therefore I see no need for an  
11 individual member of the Committee to recuse  
12 themselves from the discussion.

13 However, if during the course of our  
14 business, you determine that you have some conflict,  
15 please state it for the record and recuse yourself  
16 from that particular aspect of the discussion.

17 At this point I would like to introduce  
18 the members that are here today. Dr. Manuel  
19 Cerqueira, nuclear cardiologist, who is Chair of the  
20 Committee; Dr. Douglas Eggli, nuclear medicine, member  
21 of the Committee.

22 Dr. Leon Malmud, health care  
23 administrator, member of the Committee; Nekita Hobson,  
24 patient advocate; Ms. Ruth McBurney, state  
25 representative, member of the Committee; David A.

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1 Diamond, M.D., radiation oncologist, member of the  
2 Committee.

3 Dr. Subir Nag, radiation oncologist,  
4 member of the Committee; Sally Schwarz, nuclear  
5 pharmacist, member of the Committee; Dr. Richard  
6 Vetter, radiation safety officer, member of the  
7 Committee; and Dr. Jeffrey Williamson, therapy  
8 physicist, member of the Committee.

9 That concludes my opening remarks, Mr.  
10 Chairman.

11 CHAIRMAN CERQUEIRA: Thank you very much.  
12 We also have the next item, which is the Society of  
13 Nuclear Medicine Licensing Guide.

14 MR. ESSIG: Yes. One thing I would like  
15 to mention, initially, that the agenda item perhaps  
16 mischaracterizes the guide, itself. It is not titled  
17 a licensing guide, per se, it is simply a guide for  
18 the medical use of byproduct material in diagnostic  
19 settings.

20 We had, during the course of the, I just  
21 want to say a few remarks about the genesis of this  
22 guide. During the course of revising NUREG 1556,  
23 volume 9, we were, we received some comments from the  
24 Society of Nuclear Medicine that basically they felt  
25 that the NUREG that we had drafted at that time was

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1 much too detailed.

2 And we had completed the earlier draft  
3 prior to the Part 35 rulemaking, but then it kind of  
4 lost ownership and was put on the shelf for a while.  
5 So then we were challenged, as October of 2002  
6 approached, when the Rule Part 35 would become final,  
7 and so we pulled the old Volume 9 of NUREG 1556 off  
8 the shelf and put it out for comment.

9 And we held two meetings on that in the  
10 NRC auditorium, one on therapeutic, and one on  
11 diagnostic aspects. And what emerged from that was  
12 that the SNM came to us and felt that they could  
13 produce something than we had in the Volume 9 for  
14 diagnostic applications.

15 And so we invited them to proceed, and we  
16 met several times over the course of the production of  
17 the guidance document, and polished the language in  
18 it. And then the ultimate question became, well how  
19 will we promulgate the document and put it in general  
20 use?

21 And so what we ended up doing is entering  
22 into a licensing agreement with the Society of Nuclear  
23 Medicine, and basically bought the rights to  
24 distribute the document on our website, at no charge  
25 to the user community.

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1           We announced this in a regulatory issue  
2 summary 2002-23, dated November 27th, 2002, and we  
3 specifically stated, in the regulatory information  
4 summary, and I would quote from that, the SNM's Guide  
5 for Diagnostic Nuclear Medicine provides information  
6 that may be useful to nuclear medicine professionals  
7 in understanding the applicability of NRC requirements  
8 to the use of byproduct material in diagnostic  
9 settings, and provides measures that practitioners may  
10 use to facilitate the implementation of the revised  
11 rule.

12           The information provided in the document  
13 is not a substitute for NRC regulations. Licensees  
14 are required to comply with all applicable parts of  
15 Title 10 of the Code of Federal Regulations, unquote.

16           So that was just a, like all of the  
17 guidance documents that we have, they do not contain  
18 regulatory requirements, they are a method, or an  
19 accepted way of implementing that portion of the  
20 regulations that they address.

21           And so the diagnostic guidance document  
22 would be an adjunct to the NUREG 1556 Volume 9. And,  
23 really, that is all I wanted to say about that guide.  
24 I think we just may be clarifying a couple of points.

25           CHAIRMAN      CERQUEIRA:           Just      for

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1 clarification, so this is different than your  
2 traditional guidance documents that are released?

3 MR. ESSIG: It is not, in a sense it is  
4 not precedent setting, in that we have other, on other  
5 parts of our regulative community, we do have, where  
6 we've engaged with stakeholder organizations, where  
7 they have felt that they could write some more user-  
8 friendly guidance, if you will.

9 In fact, we are encouraged to do that.  
10 There is an Act called the National Technology  
11 Transfer and Advancement Act of 1995, that requires  
12 federal agencies to use consensus standards, whenever  
13 possible.

14 And so that we would -- we are encouraged  
15 to engage on issues like this. And if we could find  
16 that as an acceptable method of implementing that part  
17 of the regulations, and then we would just --

18 CHAIRMAN CERQUEIRA: No, I'm very  
19 supportive of it. The only question is that if the  
20 regulated community follows all the guidelines, and  
21 then they are not in compliance with the NRC, you  
22 know, if they follow official NRC guidelines they  
23 probably would have something to quote, or stand on,  
24 at the time of defending their actions.

25 Do these SNM guidelines have the same

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1 weight, recognition?

2 MR. ESSIG: Well, we -- I believe we  
3 recognize that in the regulatory issue summary, that  
4 we said they were an acceptable method of implementing  
5 that part of the NRC regulation.

6 So, yes, it doesn't -- I mean, they don't  
7 look like a regulation guide or a NUREG, and they have  
8 a different cover on them, and that sort of thing.  
9 But we, nonetheless, reviewed them and found them  
10 acceptable for implementing that part of the Rule that  
11 relates to diagnostic practices.

12 CHAIRMAN CERQUEIRA: Any questions?

13 MEMBER LIETO: Tom, then would it be  
14 accurate to say that this was a joint effort of the  
15 NRC and the SNM, in promulgating guidance?

16 MR. ESSIG: I wasn't intimately involved  
17 with it. But it was my understanding, we had several  
18 meetings. And whether that really, I guess you could  
19 call it a joint effort. I mean, if you have one  
20 meeting then it's probably not joint.

21 But as you get up to several meetings, and  
22 fine tuning the language of the document, yes, I would  
23 say it is a joint -- you could call it a joint  
24 document.

25 CHAIRMAN CERQUEIRA: Any other questions?

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1 Great.

2 So the next item, then, is the Update  
3 GAO's Review of Domestic Regulation of Nuclear  
4 Material. And Ryan T. Coles, and the GAO's office.

5 MR. ESSIG: You may recall, Mr. Coles was  
6 here at our last meeting, and he is here to update us  
7 regarding the GAO audit.

8 MR. COLES: Good afternoon, Mr. Chairman,  
9 Members of the Committee, NRC Staff. I appreciate the  
10 opportunity to come and speak to you today. My name  
11 is Ryan T. Coles, I'm a senior nuclear analyst with  
12 the United States General Accounting Office.

13 And today I just want to give you a brief  
14 update on some of our work. Unfortunately the timing  
15 of this meeting is somewhat inopportune, because we  
16 are in the process of wrapping up our work on  
17 regulation of nuclear materials in the United States.

18 So there isn't a whole lot that I can tell  
19 you in terms of our findings, but I can talk to you  
20 about three things today. First of all, I can give you  
21 a status report on our three separate efforts looking  
22 at materials regulation and security.

23 Second, I can describe some about our  
24 objectives, scope and methodology, of looking at the  
25 domestic regulation of nuclear material. And, third,

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1 to the extent that we have time, I can update you on  
2 the findings of the one report that we have released,  
3 thus far, on the Department of Energy's outside source  
4 recovery program.

5 As you may recall from our previous  
6 meeting, we have three ongoing efforts looking at  
7 nuclear materials regulation in the United States.  
8 The first report, which was issued in April, and it  
9 was just issued to the public a couple of weeks ago,  
10 was looking, specifically, at the Department of  
11 Energy's outside source recovery program.

12 For those of you who are not aware, this  
13 program is DOE's effort to collect unwanted, and  
14 unused, greater than Class C sealed sources that are  
15 present in the United States, primarily from academic  
16 licensees, although there are some medical licensees,  
17 as well, that have these sources.

18 Materials we are dealing with are  
19 primarily transuranics and high concentration  
20 strontium, cesium, cobalt sources. We, weeks ago,  
21 got some press coverage, got some coverage from the  
22 Department of Energy, and I can discuss that in a few  
23 moments, if we have time.

24 The second report that we have been  
25 conducting has been looking at international efforts

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1 to control sealed sources. And this has been  
2 primarily looking at the Department of Energy's and  
3 NRC's international efforts with the International  
4 Atomic Agency, with the Russian Federation.

5 Some of the conferences, meetings, and  
6 efforts that have been ongoing to control potential  
7 sources of radiological dispersion device materials.  
8 That report has just been issued to our requester,  
9 which is Senator Akaka, and should be released,  
10 publicly, within the next three weeks.

11 Finally, the sort of the capstone report  
12 of our efforts has been looking at the domestic  
13 regulation of nuclear materials. That report is  
14 scheduled to be issued to our requester on July 3rd.

15 It, likely, will be released to the public  
16 shortly afterwards, three, four weeks afterwards, I  
17 would say, so I think we are looking at the end of  
18 July, early August, before we issue that report.

19 We have just finished a first draft, we  
20 are about to give NRC their first opportunity to take  
21 a look at some of our findings, to provide us with any  
22 technical comments, and as we proceed through the next  
23 couple of three weeks, I think more and more  
24 information will be coming out, and we should be just  
25 about finished with our report.

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1                   Unfortunately I can't really share our  
2 conclusions and recommendations with you, at this  
3 point, because we haven't given NRC the opportunity to  
4 look at, and that is one of our standards, is that  
5 affected agencies have the opportunity to comment  
6 before the report is released publicly, or to our  
7 requester.

8                   But I can talk to you a little bit about  
9 the work that we have conducted. This has been a very  
10 extensive review, and from the beginning we knew that  
11 we were biting off a lot, and decided, and over the  
12 course of our review we have proceeded to sort of  
13 change the scope of the review, to narrow down the  
14 focus to what our clients on the Hill were  
15 particularly interested in.

16                   We've tried to take it from an educational  
17 review point, that is to try to teach our clients,  
18 teach the lawmakers, how radioactive materials are  
19 regulated in the United States. And also to narrow in  
20 and focus on specific security concerns.

21                   We have been asking what is the scope of  
22 the use of radioactive materials in the United States,  
23 specifically what is the known number of licensees,  
24 how many sources are being used, what are the typical  
25 uses of radioactive materials in the United States.

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1           We have also been wanting to know  
2 incidents related to the use of those materials, lost,  
3 stolen, or abandoned sources, misadministrations,  
4 malfunctioning devices, those types of things that are  
5 required, on the part of the licensee community, to  
6 report to their agreement state, or NRC regulators.

7           We have also been looking at the  
8 effectiveness of federal and state controls over  
9 sealed source material. And, finally, what efforts  
10 have been initiated, or considered, since September  
11 11th, to safeguard radiological material.

12           And to answer these questions we  
13 distributed surveys to all 32 agreement states, the 18  
14 non-agreement states, Puerto Rico, the District of  
15 Columbia, and officials in NRC's four regional  
16 offices.

17           We focused the survey to obtain  
18 information about each state's radiation control  
19 program, specific and general licensing activities,  
20 enforcement actions, the effectiveness of the controls  
21 over sealed sources, their program evaluation  
22 processes, and transportation of sealed sources, and  
23 also the impact of September 11th on their regulatory  
24 programs.

25           We distributed the survey in February of

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1 2003. We received responses from 29 of 32 agreement  
2 states, and 11 of 18 non-agreement states. We also  
3 received a survey from Puerto Rico, and from all four  
4 NRC regional offices.

5 We did not receive responses from three  
6 agreement states, Arizona, New Hampshire, and Maine.  
7 We also did not receive responses from the non-  
8 agreement states of Alaska, Connecticut, Minnesota,  
9 Missouri, Pennsylvania, South Dakota, and Wyoming. We  
10 also did not receive a survey from the District of  
11 Columbia.

12 In addition to our survey efforts we  
13 visited and interviewed a number of officials at the  
14 state and local level, and also licensees. We visited  
15 the following states during our review, and these  
16 states were chosen based upon the size of their  
17 programs, the numbers of licensees, and the uses of  
18 materials within those states.

19 We visited Illinois, Maryland, New Jersey,  
20 North Carolina, Pennsylvania, Rhode Island, South  
21 Carolina, and Utah. We also interviewed officials  
22 from Massachusetts, Nevada, New York, and Ohio.

23 In each of these states we visited a  
24 selection of radioactive materials licensees  
25 representing a variety of uses. We tried to get a

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1 sample of uses in the academic, research, medical, and  
2 industrial communities, and visited a total of -- we  
3 visited three decommissioning and decontamination  
4 sites, two low level radioactive waste facilities, two  
5 moisture density gauge manufacturers, a selection of  
6 industrial radiographers, medical licensees,  
7 specifically several hospitals.

8 We visited several large irradiator  
9 facilities, well logging licensees, nuclear  
10 pharmacies, and several academic licensees.

11 The purpose of our visits was to discuss  
12 with them the effectiveness of the current regulatory  
13 framework and, also, to observe first-hand physical  
14 security measures that are being undertaken at these  
15 facilities.

16 We also had extensive discussions with a  
17 variety of NRC staff offices, including nuclear  
18 materials safety and safeguards, nuclear security and  
19 incident response, and the office of state and tribal  
20 programs.

21 We also involved the organization of  
22 agreement states, and the conference of radiation  
23 control program directors.

24 As I said, in addition to NRC we also  
25 interviewed officials from other federal agencies,

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1 including the Department of Transportation, the  
2 Environmental Protection Agency, the Federal Emergency  
3 Management Agency, and the Department of Justice, and  
4 the Department of Energy.

5 As I said, we are in the process of  
6 completing our work, and we are completing a draft  
7 report for NRC's review, and expect our work to be  
8 completed within the next month.

9 We are probably running a little short on  
10 time, but I do want to say that our first report on  
11 DOE's outside source recovery program has received  
12 some attention in the media, and with the Department  
13 of Energy.

14 Basically we found that the Department of  
15 Energy is not giving the problem of collecting greater  
16 than class C sources sufficient attention. The  
17 program within the Department of Energy is not at a  
18 high enough priority.

19 The Department of Energy does not believe  
20 that the environmental management, the office of  
21 environmental management, that this is their  
22 appropriate mission to be conducting, to be going out  
23 and collecting greater than Class C material, and in  
24 the nearly 20 years since DOE was required to provide  
25 for permanent disposal of greater than Class C

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1 material, the agency has made no progress towards  
2 coming up with eventual disposition.

3 The Department of Energy responded to our  
4 report and stated that we had made several errors.  
5 First they stated that we had not given enough credit  
6 to the Department of Energy, and the Nuclear  
7 Regulatory Commission, in the work that they have been  
8 doing to categorize the sealed sources of greatest  
9 concern.

10 We disagree with DOE. We do mention the  
11 working group report. However, at the time our report  
12 was published, this working group report was, A, still  
13 draft; and B, classified as for official use only, so  
14 we could not discuss it in a public forum.

15 It is interesting that DOE released the  
16 report in response to our report. So we will address  
17 that report in much more detail in the domestic job  
18 that is coming up in the next month or so.

19 DOE also criticized us for not giving them  
20 enough credit for sources they have already picked up.  
21 On the contrary, we did note that they picked up over  
22 5,000 sources since the program's initiation, and they  
23 have been doing a good job.

24 It is simply that their future commitment  
25 is questionable. And, finally, they criticized us for

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1 not interviewing any policy executives during the  
2 course of our review.

3 We don't understand this criticism. We  
4 met, on several occasions, with numerous policy  
5 executives at the Department of Energy, including  
6 three meetings with the Deputy Assistant Secretary,  
7 three attempted meetings with the Assistant Secretary,  
8 two of which she canceled, and one that we finally  
9 attended, but we didn't get any substantive  
10 information at.

11 And it is also an interesting remark that  
12 they make, that we didn't meet with any policy  
13 executives. Is DOE saying that the policy executives  
14 are going to give us a different story than program  
15 management officials?

16 Because, to me, that indicates a larger  
17 problem than simply -- it indicates a disconnect in  
18 communications. If program management isn't giving us  
19 the same information as policy executives, then it  
20 sounds like there are communications problems within  
21 the Department of Energy.

22 I would be happy to answer any questions  
23 that I can, and I apologize for not being able to be  
24 more specific on our findings, but I will try to  
25 answer whatever I can.

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1 CHAIRMAN CERQUEIRA: Questions for Mr.  
2 Coles?

3 MEMBER DIAMOND: Mr. Coles, thanks for  
4 coming back, it is nice to see you again.

5 Earlier today Mr. Cox, in a closed door  
6 session, spoke to us about some of the compensatory  
7 measures that NRC is working on, and the Committee as  
8 a whole was very pleased to see that a lot of logic  
9 and common sense was being applied as far as the  
10 selection of sources and threshold limits in  
11 developing these measures.

12 It is very hard for us to comment on what  
13 you are doing with regard to the regulation of  
14 domestic sources, because we haven't seen your report,  
15 you haven't sent it to your client, yet.

16 But the concern that I have is that this  
17 report will, obviously, be the framework for possible  
18 legislation. And my caution would be that it is very,  
19 very important, that our legislators get information  
20 that not only is accurate, but also has a lot of  
21 common sense.

22 Because we have the real potential for  
23 developing legislation which could, really, adversely  
24 impact the practice of medicine, if we are not smart,  
25 on threshold limits, some care in the regulation, if

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1 it is desired, into the field of norm.

2 So that is my only comment, or concern, to  
3 you to pass on.

4 MR. COLES: I appreciate that comment, and  
5 I think I'm not giving away anything in terms of our  
6 conclusions and recommendations, by saying that it is  
7 vitally important, in any discussion of additional  
8 security be placed on this material, that that  
9 additional security be balanced with the beneficial  
10 applications of this material.

11 NRC and the appropriate agencies need to  
12 take great effort in determining exactly what the  
13 greatest risk materials are, and those security  
14 efforts that are already being placed upon them, so  
15 that we do not place additional burdensome regulations  
16 on materials that have beneficial uses.

17 We are doing our best to tell our clients  
18 on the Hill that we can't take a broad brush approach  
19 to security, that we have to be very specific in  
20 regulating to the best sense possible those materials  
21 of the greatest concern, without discouraging their  
22 beneficial use in medical, industrial, and research  
23 practices.

24 CHAIRMAN CERQUEIRA: Any other questions  
25 for Mr. Coles? Thank you very much for your

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1 presentation, we look forward to your next report with  
2 some real data.

3 MR. COLES: Thank you, Mr. Chairman, I  
4 appreciate it.

5 CHAIRMAN CERQUEIRA: The next item is  
6 training, education, board certification, and the new  
7 Part 35. Dr. William Hendee, President of the  
8 American Board of Radiology will be presenting.

9 Welcome, Dr. Hendee.

10 DR. HENDEE: Thank you very much, thank  
11 you, Mr. Chairman. And thank you to each of the  
12 members here of ACMUI for allowing the American Board  
13 of Radiology to make comments regarding the training  
14 and experience requirements, as denoted at the present  
15 time, in the revisions of Part 35.

16 We appreciate, very much, the opportunity  
17 to be here. I am the President of the American Board  
18 of Radiology, my name is William Hendee, or Bill  
19 Hendee.

20 I'm also Senior Associate Dean and Vice  
21 President of the Medical College of Wisconsin, and  
22 Dean of the Graduate School of Biomedical Sciences,  
23 there.

24 I'm a Board certified health physicist by  
25 the American Board of Health Physics, and also a board

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1 certified medical physicist by the American Board of  
2 Radiology. I have been a member of the Board, now, of  
3 radiology for about ten years. I'm the current  
4 president, I'm a former member of the American Board  
5 of Health Physics, as well, and a former examiner for  
6 ABHP.

7 The comments that I'm going to make today  
8 relate to the training and experience requirements as  
9 laid out at the present time, in the proposed  
10 rulemaking for revisions of Part 35, and there are  
11 basically four issues that I want to bring up for  
12 discussion.

13 But I want to tell you, first, that  
14 members of different boards, certification boards, met  
15 this morning with members of the NRC staff, and we had  
16 an excellent, open, and frank discussion on several  
17 issues, including those which I will bring up this  
18 afternoon.

19 And I want to bring special attention to  
20 the three people that were sitting around the table  
21 with us, from the NRC, because of their openness and  
22 willingness to listen to our concerns and questions,  
23 and to work with us towards solutions.

24 And those are Roger Broseus, Patricia  
25 Holohan, and Sandra Wastler. So thank you all very

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1 much for allowing us. And I think, in fact, we came  
2 to some resolution of many of the issues that we hope  
3 the Council here will also agree with.

4 So there are four issues. I would like to  
5 raise each of these issues and see if there are any  
6 questions for me on each issue, before we go forward  
7 to the next.

8 And the first issue is the issue of  
9 default pathways to NRC recognition and board  
10 certification. Board certification, by a recognized  
11 specialty board, is proposed as a pathway to  
12 demonstration of adequate knowledge, to be recognized  
13 by the Nuclear Regulatory Commission.

14 As an authorized medical physicist,  
15 authorized user, authorized nuclear pharmacist, or as  
16 a radiation safety officer, you have that in the  
17 proposed rulemaking.

18 And then you have, in the proposed  
19 rulemaking, an alternate pathway to NRC recognition  
20 through the process of individuals attaining specific  
21 numbers of hours of didactic instruction and  
22 supervised practical training.

23 The proposed rulemaking, however, is vague  
24 on whether the specific number of hours of didactic  
25 instruction, and supervised practical training, must

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1 be explicitly required by a specialty board before the  
2 NRC will acknowledge board certification as a pathway  
3 to recognition, as one of the four categories,  
4 authorized medical physicist, etcetera.

5 Now, it has been the presumption of the  
6 American Board of Radiology that the NRC wishes to  
7 consider board certification by a recognized specialty  
8 board as a true default pathway to service, as an  
9 authorized medical physicist, radiation safety  
10 officer, authorized user, or authorized nuclear  
11 pharmacist.

12 We presume, but it is difficult to tell,  
13 from the proposed rulemaking, that the default pathway  
14 of board certification is not viewed by the NRC as  
15 simply an assurance that candidates meet the very  
16 specific hours of didactic instruction and supervised  
17 practical training considered essential by the NRC.

18 Because if you were to take that approach,  
19 then, essentially the default pathway of board  
20 certification is no more than perfunctory and is a  
21 redundant process in the proposed rulemaking.

22 So here is what we recommend. The ABR  
23 recommends that the NRC not be prescriptive in its  
24 recognition of specialty boards. The ABR recommends,  
25 instead, that well established specialty boards, such

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1 as the American Board of Radiology, be recognized as  
2 a default pathway to service in any of the categories  
3 that recognition will be appropriate.

4 While at the same time allowing the board  
5 to define the education and training experience most  
6 appropriate to the safe and effective delivery of  
7 quality care to patients.

8 Now, we had an excellent discussion on  
9 this point this morning. And in that discussion we  
10 described the board certification process, which is  
11 composed of three different elements.

12 One is there are education, training, and  
13 experience requirements to sit for board  
14 certification. Once you've attained those  
15 qualifications, and you are admitted into the board  
16 process, you go through a rigorous examination  
17 process, which is composed of written examinations by  
18 the American Board of Radiology, followed by an oral  
19 examination in your particular specialty.

20 Those examinations cover, they are  
21 certainly not limited to, but the cover radiation  
22 safety, the aspects of radiation safety pertinent to  
23 the particular specialties.

24 And we examine in those areas. And, in  
25 fact, one can make the case that examination in

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1 radiation safety, and radiation protection, is a much  
2 more effective way of determining the mastery of a  
3 body of knowledge, than is simply hours of training  
4 and experience.

5 I think we have reached consensus on this,  
6 this morning. And that is that a certification board  
7 could apply for dean status, as a default pathway,  
8 could describe the areas it examines in, those areas  
9 would be consistent with the areas that are required  
10 by the NRC for recognition.

11 And if, in fact, the examination covers  
12 those areas, and if the board requires mastery of that  
13 body of knowledge, then that board will be recognized  
14 as a default pathway, without having to state,  
15 explicitly, an explicit number of hours of training  
16 and experience.

17 We are very comfortable with that, and we  
18 hope that you all will be comfortable with it as well.  
19 Now, let me stop there, and see if there is any  
20 question in that particular area.

21 CHAIRMAN CERQUEIRA: Jeffrey?

22 MEMBER WILLIAMSON: I was just looking at  
23 our proposal that came back from the Commissioners,  
24 you know, with some minor modifications. And our  
25 intent was, and my understanding of what came back,

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1 does not require a specific number of hours for any of  
2 the boards.

3 DR. HENDEE: And I'm very happy with that  
4 response. It is part -- part of my reason for being  
5 here is to clarify issues of uncertainty that I think  
6 need to be clarified, and need to be clarified in the  
7 final report of this Commission, and in the final  
8 rulemakings, not confusion or ambiguity in what is and  
9 is not required.

10 So I'm very pleased with that response.

11 CHAIRMAN CERQUEIRA: I guess one question  
12 that came up during the discussions is that you take  
13 a board like the ABR, which covers an extensive body  
14 of clinical, technical, basic science information.  
15 And, theoretically, somebody could pass the board, but  
16 could have failed all the questions related to  
17 radiation safety.

18 So what assurance is there that a  
19 candidate who passes the board has met knowledge  
20 criteria in the areas of radiation safety?

21 DR. HENDEE: Well, in several cases the  
22 written examination focuses on different areas. Let  
23 me give you an example.

24 CHAIRMAN CERQUEIRA: Sure.

25 DR. HENDEE: In examining candidates in

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1 various certification areas of radiological physics,  
2 for example, the candidates take an oral examination.  
3 That oral examination consists of questions in five  
4 different areas.

5 One of those areas is in radiation  
6 protection and safety. You must pass that oral  
7 examination. You can't -- you cannot do poorly on  
8 that exam, and have doing well on other parts of the  
9 exam compensate.

10 CHAIRMAN CERQUEIRA: And that consists of  
11 30, 40 questions, that are documented, or --

12 DR. HENDEE: Well, this is the oral  
13 examination. So in the oral examination you typically  
14 have about five minutes, in each of five different  
15 areas, per examiner. And there are five examiners  
16 examining in that area.

17 And so you ask five questions per  
18 examiner, you ask one question by each of five  
19 examiners. But that question is an open-ended  
20 question which then leads to a lot of discussion. So  
21 you cover the ground pretty well by the time you are  
22 through.

23 And then in the written examination there  
24 are multiple questions on radiation protection safety.

25 MR. NAG: I would like to ask --

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1 CHAIRMAN CERQUEIRA: Yes, Richard? Go  
2 ahead.

3 MEMBER VETTER: I just wanted to  
4 underscore, for you, and the Committee and the general  
5 audience, that when the subcommittee began to draft  
6 its recommendations, one of its positions was that, in  
7 fact, that it felt that passing an exam was, much  
8 better demonstrated that an individual had the  
9 competency, than sitting for a certain number of  
10 hours.

11 So it was never the intent that a board  
12 would be qualified on a prescriptive number of hours.  
13 It was passing that exam. I'm sorry, not just passing  
14 that exam, it is a whole certification process.

15 DR. HENDEE: But, thank you again. I  
16 mean, you are confirming what our belief was, but it  
17 needs to be explicitly stated, so that everyone  
18 understands this.

19 MR. NAG: The American Board of Radiology  
20 has a very extensive curriculum on radiation safety.  
21 What would you say to another board who wishes to  
22 apply for the exemption, but may have a lot more  
23 limited radiation safety curriculum, if we don't say  
24 there must be X number of hours in the curriculum?

25 The American Board of Ophthalmology says,

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1 well we have done one, but we have radiation safety in  
2 our curriculum that for anyone who has passed the  
3 American Board of Ophthalmology will be an authorized  
4 user, or can be an authorized user.

5 How would you deal with that situation?  
6 It may be hypothetical, or it may not.

7 DR. HENDEE: I think it is clear, in  
8 reading through the alternate pathways to the default  
9 pathway to board certification, if I read the other  
10 ways that you can become certified, I think it is  
11 clear what is expected, in terms of a body of  
12 knowledge.

13 I think you can surmise what is expected  
14 in terms of a body of knowledge, from reading those  
15 alternate criteria, not so much the number of hours,  
16 but the areas to be covered, and what you would  
17 expect.

18 And I think that a board that was applying  
19 for dean status, as a default pathway, would be  
20 expected to have a method to examine and test, and  
21 evaluate, a candidate's mastery of knowledge in those  
22 areas.

23 So I think, in fact, the basic information  
24 is there in the proposed rulemaking that would allow  
25 you to decide whether a particular board was providing

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1       adequate, had an adequate expectation of mastery of  
2       radiation safety or not. I think you could do that.

3               CHAIRMAN CERQUEIRA: Jeffrey, you had a  
4       question?

5               MEMBER WILLIAMSON: No.

6               CHAIRMAN CERQUEIRA: That is unusual.

7               MEMBER WILLIAMSON: Well, anyway, there  
8       was an effort -- I'm going to ask one.

9               In each of the categories authorized  
10       nuclear pharmacist, medical physicist, and so forth,  
11       we made an effort to define broad criteria for what  
12       constituted an acceptable, you know, in the case of  
13       the medical physicist it told an appropriate masters  
14       and doctor's degree, have two years full time  
15       practical training and/or supervised experience in  
16       radiation oncology physics, some requirements that it  
17       has to be in a clinical radiation oncology facility,  
18       pass an examination which assesses knowledge and  
19       competence in clinical radiation oncology, safety,  
20       calibration, etcetera, etcetera, listing --

21               Is that an acceptably broad specification  
22       of the body of knowledge that, you know, any eligible  
23       board would have to asses? And in particular the  
24       American Board of Radiology?

25               DR. HENDEE: I think so. When we looked

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1 through that list we said, well we test, we evaluate  
2 candidate's mastery of this body of knowledge in this  
3 areas, we could meet this requirement, so long as we  
4 are not held to some specific number of hours of  
5 training and experience.

6 I hear you saying that wasn't your intent.  
7 I just have to tell you that when reading the proposed  
8 rulemaking it is a little bit hard to know exactly  
9 what is intended in order to determine whether a board  
10 will meet those, will be accepted or not. And you are  
11 clarifying that now.

12 CHAIRMAN CERQUEIRA: David?

13 MEMBER DIAMOND: Dr. Hendee, what we were  
14 trying to -- since Dick, and Jeff, and I, were the  
15 ones who wrote most of this fun stuff, again, what we  
16 are trying to do is give the specialty boards this  
17 latitude and, really, reinforce you, support you as  
18 the default pathway, and only in the circumstances  
19 where an individual would need, for some reason, to  
20 follow an alternate pathway, in that particular  
21 instance be very, very prescriptive.

22 So when I listen to you, and when I review  
23 the proposal, I really don't think there is any true  
24 friction going on. I understand that you are -- that  
25 there may be a little confusion, but we really tried

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1 to insert that operator OR in there, to be very, very  
2 clear, that only in that alternate pathway would we  
3 have those very prescriptive guidelines come into  
4 effect.

5 DR. HENDEE: Mr. Chairman, I'm perfectly  
6 satisfied with this response. I think it is very  
7 helpful to get this clarification. And I think I can  
8 go back and assure the Board of Radiology, and I think  
9 other specialty boards as well, that we understand,  
10 now, how to go about this process, and we appreciate  
11 the latitude that you have given us.

12 CHAIRMAN CERQUEIRA: Good.

13 DR. HENDEE: And I do want to move to  
14 another issue.

15 CHAIRMAN CERQUEIRA: I suggest we go on to  
16 the next issue, because we have about 15 minutes left.

17 DR. HENDEE: This is a fairly, I think a  
18 fairly simple issue. And that is that oftentimes  
19 individuals, now looking at individuals and their  
20 qualifications, oftentimes an individual acquires the  
21 training and experience to serve as an authorized  
22 user.

23 This is particularly true with physicians,  
24 while the physician is in a residency, or a fellowship  
25 program, that is accredited through the accreditation

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1 council, the graduate medical education review by the  
2 residents review committee, and all those kinds of  
3 things.

4 In those situations the person in the  
5 institution that is most responsible for assuring the  
6 training of residents or fellows, is the program  
7 director. And we would recommend that for individuals  
8 who receive their radiation experience, and radiation  
9 training, while in an accredited residency, or  
10 fellowship program, that the person best suited to  
11 attest to that training is the program director.

12 For individuals who did not receive their  
13 training and experience in an accredited program,  
14 certainly the authorized user would be the person you  
15 would go to. But in the case of accredited programs,  
16 the individual most responsible for assuring that the  
17 training actually occurred the way that it was stated  
18 to, supposed to have occurred, is the program  
19 director.

20 And we would recommend that that be the  
21 person that provide the attestation statement in those  
22 situations.

23 CHAIRMAN CERQUEIRA: Do you have any  
24 questions on that point, or --

25 MR. NAG: Should it be the training, that

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1 the principal and the authorized user, or should it be  
2 an -- for example, there may be a friction between the  
3 authorized user and the program director.

4 You know, the program director may not  
5 like, for whatever reason, a resident. And I will not  
6 certify you, while the authorized user, how do you  
7 deal with conflicts like that?

8 DR. HENDEE: It is our impression that the  
9 attestation statement is provided by one individual,  
10 and in those situations the person that is responsible  
11 for assuring the educational experience meets the  
12 standards of the residency review committee, and the  
13 AGCME, is the program director.

14 And so I would feel much more comfortable  
15 that the program director would attest to the  
16 training, rather than an authorized user, especially  
17 when there is a conflict like that.

18 CHAIRMAN CERQUEIRA: Jeff?

19 MEMBER WILLIAMSON: Your statement, or  
20 your description basically replacing the program  
21 director with preceptor, was exactly the intent of the  
22 subcommittee when we drafted the regulation.

23 DR. HENDEE: Replacing the authorized user  
24 with the program director?

25 MEMBER WILLIAMSON: Precisely, or a

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1 preceptor. But, you know, what has happened is the  
2 Commissioners had their go at this and they,  
3 basically, have ruled that we have to put the  
4 preceptor now, who I presume is somebody mentioned on  
5 an NRC or agreement state license, back in as the  
6 signatory.

7 So I think we are going to learn, later  
8 today, the consequences of that. But, you know, that  
9 was -- I'm not sure, at this point, what we can do  
10 about that.

11 DR. HENDEE: Our advice to you, from the  
12 profession and from the Board of Radiology is, the  
13 program director would be a more appropriate  
14 individual to sign off. But I do understand that we  
15 all respond to people who have authority. So that is  
16 just our advice.

17 MEMBER DIAMOND: I would just like to echo  
18 Jeff's comments. Again, if you look through all the  
19 drafts, every single draft that we wrote included the  
20 language for the residency program director and as the  
21 powers that be, when you get to the proposed rule, it  
22 was replaced.

23 So we did our best, we agree with you.

24 DR. HENDEE: Okay, thank you. I will move  
25 on to the third point.

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1           This is also, maybe, a somewhat complex  
2 point. But I think we certainly reached consensus on  
3 this, this morning. And that is the issue of  
4 certification examinations as a measure of competency.

5           Because in various aspects of the  
6 rulemaking, even though I think you took out the issue  
7 of verifying competency by the preceptor, I'm not sure  
8 about that, you can comment on that.

9           Here is what the American Board of  
10 Radiology recommends. The American Board of Radiology  
11 recommends that references to examination as an  
12 evaluation of competence, in reference to specialty  
13 board certification, be removed from any and all  
14 sections of the proposed revisions to Part 35.

15           Specialty boards evaluate education,  
16 training, experience, and mastery of a body of  
17 knowledge, and its potential applications in a  
18 clinical setting. That is what we evaluate, that is  
19 what we test.

20           Specialty Boards, including the American  
21 Board of Radiology, do not evaluate the competence, or  
22 diligence, of individuals conducting technical or  
23 medical procedures in a clinical setting, we don't do  
24 that.

25           We have had long discussions about this,

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1 at the board level, and we have concluded that we do  
2 not evaluate, or test, for competence. We test for  
3 mastery of a body of knowledge, and its applications.

4 In fact, here is the mission statement of  
5 the American Board of Radiology, and the mission of  
6 the American Board of Radiology is to serve the  
7 public, and the medical profession, by certifying that  
8 its diplomates have acquired, demonstrated, and  
9 maintained a requisite standard of knowledge, skill  
10 and understanding essential to the practice of  
11 radiology, radiation, oncology medical physics.

12 Nowhere in there is the word competence.  
13 And we would only recommend that in this rulemaking,  
14 as you revise it once again, you take out the  
15 evaluation of competence anywhere that the boards are  
16 referred to.

17 And you might think about whether or not  
18 that is something that you can really, also, evaluate  
19 or not. Mastery of a body of knowledge is one thing,  
20 attesting to competence takes a one on one oversight  
21 of the individual in a clinical study, over time. The  
22 boards don't do that. I suspect the NRC would have a  
23 hard time doing it as well.

24 MEMBER DIAMOND: Bill, this is another  
25 subject that we spent a lot of time thinking about.

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1 In today's hyper-litigious world, no one really wants  
2 to be the one stating whether an individual is  
3 competent in the subject, or not.

4 We had a tremendous number of individuals  
5 telling us that they, as program directors, did not  
6 feel comfortable being the ones signing a statement  
7 attesting to competence, they did not want that  
8 liability.

9 And they all said to us, it is the boards,  
10 the boards are the ones that are supposed to go and  
11 help prove to us that these individuals were  
12 competent, so take us out of the loop for an  
13 attestation of competence, we will be happy to go and  
14 sign off that they fulfilled the requirements of the  
15 program, but put that in there for the boards, which  
16 is exactly what we did.

17 And now, of course, you are making the  
18 point that you are testing on a body of knowledge, but  
19 are not capable of attesting to an individual's body  
20 of knowledge and competency in the subject as a whole.

21 So we are left in a very difficult  
22 predicament here, members of the Committee, we have  
23 been through this quite a bit. I welcome any other  
24 thoughts.

25 CHAIRMAN CERQUEIRA: Any comments?

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1 MEMBER DIAMOND: Where does the buck stop?

2 DR. HENDEE: You define competence in  
3 terms of what it is that you are evaluating.

4 MEMBER VETTER: Well, just briefly, the  
5 issue we struggled over was whether or not a preceptor  
6 needed to certify that the individual was competent.  
7 And we chose not to put that in our recommendation,  
8 but that has been added in.

9 What you are raising is an additional  
10 point relative to the certification process, where  
11 these -- these are just draft rules, where it says,  
12 assesses knowledge and competence, that is where David  
13 -- somehow we were encouraged to build competency into  
14 this process.

15 So that is how those words ended up there,  
16 that is what we recommended, because we were not  
17 recommending that the preceptors sign for competence.  
18 So now we end up with both of them.

19 DR. HENDEE: If you define competence as  
20 mastery of a body of knowledge, and its potential  
21 applications in a clinical setting, that is what the  
22 board evaluates.

23 But if you define competence in some other  
24 way which requires some kind of, you know, on-site  
25 over time evaluation of the practice of the

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1 individual, we don't evaluate that.

2 MEMBER WILLIAMSON: You require letters of  
3 recommendation for candidates to sit for the board.  
4 Those letters of recommendation request the evaluators  
5 to give the opinion of the individual's competence in  
6 the training environment.

7 You presume, you know, that these people  
8 have had --

9 DR. HENDEE: We do ask whether or not --  
10 I don't remember exactly how it is worded, but we do  
11 ask whether or not the person who is signing off are  
12 attesting to the individual's eligibility to sit for  
13 the exam.

14 Whether or not that person feels as though  
15 the person is qualified to sit for the exam. But we  
16 don't ask if the person is competent to practice. I  
17 mean, we have avoided this after long, long  
18 discussions, we have decided that we can't evaluate  
19 competence.

20 And it sounds like you all are starting  
21 down the same road of having the same discussion.

22 MEMBER VETTER: I was just going to  
23 mention, I'm fairly certain that the American Board of  
24 Health Physics is the same way, it asks someone to  
25 asses whether or not the individual is qualified to

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1 sit for the exam.

2 CHAIRMAN CERQUEIRA: Dr. Nag?

3 MR. NAG: I mean, if the American Board of  
4 Radiology and the other boards are not capable of  
5 certifying competence, I mean, how are we going to be,  
6 you know, how can we even think about certifying  
7 competence?

8 I would say we go back to the  
9 Commissioners and say that we can talk about having  
10 the knowledge, or having a body of knowledge, but not  
11 certifying competence.

12 CHAIRMAN CERQUEIRA: Again, I think the  
13 point that the committee had made to the Commissioners  
14 was to, you know, certification of competency was  
15 difficult, but that was put back into the draft rule  
16 to Part 35. Dick?

17 MEMBER VETTER: In your position as  
18 President of the ABR, in your opinion who should  
19 determine competence of the authorized user, or any of  
20 these other positions?

21 DR. HENDEE: Well, certainly in the work  
22 environment that individual reports to somebody else.  
23 And there is a medical board in the institution, and  
24 there are supervisors over the work of the individual,  
25 and those people are on-site, and over time if the

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1 person is incompetent, that information will come  
2 forward.

3 But I can't see doing it in some sort of  
4 way that a board could apply.

5 MEMBER VETTER: So whether a board  
6 assesses knowledge, etcetera, or whether the NRC has  
7 prescriptive hours, do either of those determine  
8 whether a person is competent?

9 DR. HENDEE: No, not at all.

10 MEMBER VETTER: Ruth?

11 MEMBER MCBURNEY: I agree. I would tend  
12 to not want the word competence in there if it meant  
13 something other than have the knowledge and training,  
14 and so forth, to do the job.

15 Or to redefine competence in terms of just  
16 what you had read earlier, as to what the board  
17 certifies, or attests to.

18 CHAIRMAN CERQUEIRA: Sally?

19 MEMBER WAGNER SCHWARZ: I was just  
20 thinking that it is possible that the words need to be  
21 changed to essentially state that certifying -- then  
22 certify that a body of knowledge has been achieved, I  
23 mean, accomplished.

24 DR. HENDEE: Mastery of a body of  
25 knowledge and its applications?

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1 MEMBER WAGNER SCHWARZ: Correct. Just  
2 change the words to essentially say -- we are all  
3 saying the same thing.

4 DR. HENDEE: We are.

5 MR. NAG: And have qualification, or has  
6 the requisite qualification, rather than saying  
7 competency, that is one word we could use. The other  
8 thing is that I would not want to add to be evaluated  
9 by the hospital or by the supervisor, because that  
10 could lead to a catch-22 situation.

11 If you have a new employee to do the work  
12 that must mean having an NRC authorized user, he  
13 cannot get that unless he is working, and has been  
14 supervised by somebody else. So I would not want to  
15 have, you know, someone in the department supervising  
16 people, and get the license.

17 CHAIRMAN CERQUEIRA: Jeff?

18 MEMBER WILLIAMSON: So I guess the  
19 question is, maybe to Tom, can we delete the word  
20 competence, and put in some more general specifier, as  
21 has been discussed within the guidelines presented to  
22 us by the Commissioners decision?

23 MR. ESSIG: Well, certainly the Rule is up  
24 for comment, and if that is a comment that comes -- I  
25 mean, --

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1                   MEMBER WILLIAMSON: And I will comment,  
2 just for information purposes, it may help explain  
3 some of the confusion about this, is there are errors  
4 in the way this draft rule, that was just distributed  
5 today, are written. It really is not written, at all,  
6 with the same logic as the original proposal.

7                   I assume this is an error that was not  
8 intentional.

9                   MS. HOLOHAN: I'm Trish Holohan from IMNS.  
10 The Commission SRM is specific saying we can't change  
11 the preceptor statement, but we can certainly clarify  
12 that the word competency means sufficient attestation  
13 to demonstrate that the candidate has knowledge to  
14 fulfill the duties of the position for which  
15 certification is sought.

16                   So we can do it in the statements of  
17 consideration.

18                   CHAIRMAN CERQUEIRA: Dr. Hendee, was that  
19 something that the ABR would find acceptable?

20                   DR. HENDEE: Yes, very much so.

21                   CHAIRMAN CERQUEIRA: So clarification of  
22 the word competency?

23                   DR. HENDEE: Sure, define it in a way that  
24 we can actually evaluate it.

25                   CHAIRMAN CERQUEIRA: Yes. Ralph?

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1           MEMBER LIETO: I was going to ask Trish,  
2           would that be in the definitions of Part 35, that you  
3           define competency in the Part?

4           MS. HOLOHAN: No, it would be in the  
5           statements of consideration for implementing the Rule.

6           MEMBER LIETO: Ruth just kind of whispered  
7           to me the same comments that are going through my  
8           mind, because statements of consideration, they are  
9           out there that one time.

10          And I think if you had what, exactly, it  
11          was right in the Rule, I don't think you would have  
12          this history going on with what does it really mean?  
13          And basically we are talking mastery of a body of  
14          knowledge, and the ability to function independently.

15          MS. HOLOHAN: I think in addition to  
16          clarifying the statements of consideration, we can  
17          also clarify the forms to indicate what competence  
18          means. The form 313 and we are looking to create  
19          another form that boards submit.

20          CHAIRMAN CERQUEIRA: Dr. Nag?

21          MR. NAG: Yes, I think an important enough  
22          point that even though what has been written, we  
23          should still be able to insert, in the main Part 35,  
24          rather than supplement the thing.

25          One point I think we can talk to the

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1 Commissioners, we have a meeting next week, if the  
2 ACMUI feels that this is an important enough, even  
3 that one word, it may be worthwhile talking directly  
4 with the Commissioners.

5 CHAIRMAN CERQUEIRA: Right, so this is the  
6 revision of Part -- the revision of the revision of  
7 Part 35. So it is still, you know, being considered,  
8 and I think could appropriate, with the  
9 recommendations of the Committee, and the approval of  
10 Staff, be advanced in that format.

11 So I gather, from the ACMUI, and the  
12 presentation, that people agree with the ABR's  
13 recommendations. Thank you. Your last point?

14 DR. HENDEE: Well, my last point is  
15 composed of a comment, a statement. And my comment is  
16 that the American Board of Radiology supports the  
17 website listing of specialty boards that serve as  
18 default pathway to service, as AMP, AMU, ANP, and  
19 whatever.

20 We like the idea of web listing. However  
21 --- so that is a comment. Now, the statement is that  
22 in spite of that the ACMUI is on record, in a previous  
23 report, of making certain recommendations that the  
24 American Board of Radiology strongly objects to.

25 So I would like to make those objections,

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1 even though I realize that, in fact, there is going to  
2 be no inclusion of any boards in the rulemaking  
3 itself.

4 The objection goes as follows:  
5 Recommendations of ACMUI dated August 1st, 2002,  
6 recognized board certification by three specialty  
7 boards, American Board of Health Physics and  
8 Comprehensive Health Physics; American Board of  
9 Medical Physics and Medical Health Physics, and the  
10 American Board of Science and Nuclear Medicine and  
11 Radiation Protection, as a default pathway to  
12 recognition by the NRC as a radiation safety officer.

13 The ABR strongly objects to this listing  
14 because it omits board certification radiological  
15 physics, and in medical nuclear physics, by the  
16 American Board of Radiology, as pathways to  
17 recognition as a radiation safety officer.

18 Individuals presently serving as radiation  
19 safety officers for many nuclear medicine programs  
20 across the country are board certified in radiological  
21 physics for medical nuclear physics by the American  
22 Board of Radiology.

23 Further educational experiences for ABR  
24 certification of these specialties meet, or exceed,  
25 those for each of the three certification boards that

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1 were originally proposed as default pathways by ACMUI.

2 So we went on to say that we want those  
3 two specialty certifications included, if there is  
4 going to be boards mentioned in the rulemaking itself.  
5 Now, we realize that no, it is not going to be the way  
6 it happens, it is going to be on the website.

7 But I just wanted to be on record, here,  
8 that the Board of Radiology strongly objects to being  
9 excluded from the listing of boards that originally  
10 ACMUI put forward. That is our statement. I don't  
11 know that it needs any discussion.

12 But it does raise, now, the issue that I  
13 do want to bring up. And it has to do with the fact  
14 that one explanation for why the Board of Radiology  
15 was excluded goes as follows:

16 Omission of ABR certification of medical  
17 nuclear physics, and radiological physics as default  
18 pathways to NRC recognition as a radiation safety  
19 officer, has been defended by some. I got this  
20 explanation from a couple of people.

21 Who point out that persons recognized as  
22 an authorized medical physicist, that is, through  
23 board certification by the American Board of Radiology  
24 and Therapeutic Radiological Physics, roentgen ray and  
25 gamma ray physics, X-ray and radium physics, or

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1 radiological physics, those are all historical  
2 certifications, can serve as a radiation safety  
3 officer.

4 So there was an alternate mechanism coming  
5 through these therapeutic radiological certifications  
6 that would allow someone to serve as radiation safety  
7 officer.

8 However, this pathway to service as a  
9 radiation safety officer is restricted to  
10 responsibilities over "similar types of use of  
11 byproduct material for which the individual has  
12 experience".

13 The board certification pathway, as I  
14 mentioned above, with the exception of one of them,  
15 radiological physics, are designed for individuals  
16 working in radiation oncology, where the uses of  
17 byproduct material are for therapeutic applications.

18 It is not clear, it is not clear, whether  
19 an authorized medical physicist would be considered  
20 qualified, by the NRC, to provide radiation safety  
21 oversight of the use of unsealed radioactive materials  
22 for diagnostic procedures, or in research.

23 These diagnostic applications constitute  
24 by far the most widespread use of byproduct material.  
25 The ABR presumes that it is the NRC's intent to extend

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1 the radiation safety responsibilities of authorized  
2 medical physicists to diagnostic applications of  
3 byproduct material.

4 If that presumption is correct, then the  
5 NRC should state its intent, explicitly, in the  
6 proposed regulations. Can an authorized medical  
7 physicist, working in radiation therapy, be designated  
8 as a radiation safety officer, for unsealed  
9 radionuclides used in diagnostic procedures, and in  
10 research?

11 If the answer to that is yes, provided  
12 they have some training in that area, which they all  
13 would have, then the answer is settled. If not,  
14 because the specific applications that the person is  
15 responsible for are basically sealed sources in  
16 therapy, then I think we've created a problem of who  
17 is going to be the radiation safety officer for these  
18 diagnostic nuclear medicine programs around the  
19 country.

20 And I can't tell, from reading the  
21 regulations, what the intent is.

22 CHAIRMAN CERQUEIRA: Richard?

23 MEMBER VETTER: I don't remember the  
24 specific points of discussion. Some of this gets a  
25 little convoluted. Tend to exclude anyone, but

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1 relative to the point you make about, okay, what is  
2 the -- relative to a scope of that person's  
3 certification, how would that relate to the scope of  
4 the program if they are named RSO?

5 I can't answer that, off-hand, without  
6 reviewing this in more detail. And, you know, it is  
7 not ultimately our decision, anyway. But as we are --  
8 I was hoping to be able to explain to you what we did,  
9 and I can't remember the specifics of the discussion  
10 relative to that particular point, comparing the scope  
11 of AMP, for example, versus the scope of the program.

12 DR. HENDEE: Let me just respond to that  
13 before Jeff. It all hangs on the definition, or the  
14 interpretation of this statement, responsibilities  
15 over similar types of use of byproduct material. It  
16 all hangs on that, and you have to explain what that  
17 means, and then I will understand what you intend,  
18 what you are trying to get at.

19 MEMBER VETTER: Right.

20 CHAIRMAN CERQUEIRA: Jeff?

21 MEMBER WILLIAMSON: Well, I think similar  
22 types of use means 300, 400, 600, I mean, that is the  
23 way NRC categorizes them, and I'm sure that is how it  
24 was intended. So I think the intent was, whether it  
25 was advisable or not, that RSO of a broad scope

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1        licensee needs a broader certification credential,  
2        like medical health physics, or American Board of  
3        Health Physics.

4                I think that was the intent, and the  
5        thought was that the smaller licensees that fall short  
6        of being broad scopes, would be caught by the  
7        condition at the end, which allows authorized users,  
8        authorized medical physicists, and ANPs, to be  
9        radiation safety officers for programs involving  
10       byproduct uses similar to those of their experience.

11               But I think you've brought up a case where  
12       radiation oncology in a small hospital, maybe, is the  
13       main source of technical expertise for doing health  
14       physics, and there really isn't a viable choice, other  
15       than the ANP, to be the RSO for the whole operation.

16               And that, you know, if we don't repair  
17       this, and I support your proposal that we do do  
18       something to repair this, it may be that we will  
19       actually be worsening radiation safety by forcing  
20       these programs to have off-site RSOs, and consultants,  
21       and so on, as opposed to having somebody on-site, full  
22       time being the RSO.

23               So I could see that maybe the proposal  
24       could do some harm.

25               DR. HENDEE:    Could I just respond?    I

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1 think you really want to think this through very  
2 carefully. In my institution, which has a broad  
3 license, and has a wide spectrum of programs, as do  
4 most of your institutions, I can see where we could  
5 have a person certified by the American Board of  
6 Radiology and Medical Nuclear Physics, serving as  
7 radiation safety officer over all the diagnostic  
8 applications.

9 And we could have a radiation therapy  
10 physicist serving as radiation safety officer over all  
11 the therapeutic applications, and now we have two  
12 radiation safety officers, instead of one.

13 So I think this is a complicated -- I  
14 think it is not just small programs, it also creates  
15 problems in large programs, as well. So I think you  
16 really need to think this through.

17 And our recommendation, by the way, is  
18 that a person certified as an authorized medical  
19 physicist, should be given authority to serve in the  
20 radiation safety officer over research and diagnostic  
21 applications, provided that he has had some basic  
22 education in the use of unsealed sources, and what  
23 constitutes radiation safety and protection practices  
24 for those sources. Then the problem would be solved.

25 CHAIRMAN CERQUEIRA: We are about out of

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1 time, here. Any other questions, or any other  
2 comments? Yes?

3 MEMBER LIETO: I had two comments. One,  
4 I think maybe you shed some light on where that areas  
5 of expertise came into play. I think there was  
6 concern that if you had, say, a physicist who is board  
7 certified in just diagnostic radiology becoming an RSO  
8 over a program with radioactive materials, that there  
9 wouldn't be the expertise there, even though he was  
10 the physicist of the facility.

11 And it would be that situation, and also  
12 maybe a physician, whose expertise may be just in  
13 diagnostic uses, and then in a program with radiation  
14 oncology, Brachy therapy, might be asked to become e  
15 RSO for the license.

16 That being said I definitely support your  
17 points about the authorized medical physicist,  
18 actually from reverse end, that someone could be board  
19 certified in medical nuclear, and yet there might be  
20 questions about their ability to be RSO over either a  
21 brachy therapy program or a broad scope program.

22 And definitely would create, I think,  
23 significant shortages of competent RSOs over those  
24 types of programs.

25 DR. HENDEE: Thank you very much for

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1 hearing us out, thank you all.

2 CHAIRMAN CERQUEIRA: Thank you. All  
3 right, the next presentation is a discussion of NRC  
4 licensing timeliness proposal for monthly, bimonthly,  
5 ACMUI teleconference.

6 MR. ESSIG: Okay. This caption for this  
7 topic was only meant to serve as a point of discussion  
8 to increased engagement between the Staff and the  
9 Committee. And I don't believe that anybody should  
10 seriously, should interpret that we were seriously  
11 considering monthly and bimonthly conference calls.

12 That was not, that was just a suggestion  
13 for more frequent engagement. I think on the benefit  
14 side of more frequent engagement we see more timely  
15 exchange of information between the Committee and the  
16 Staff, more timely resolution of issues, and more  
17 opportunity for the Committee to provide input.

18 Now, some of the concerns that we would  
19 have with the additional engagement, what I'm talking  
20 about here is more engagement than the two times  
21 during the year, semi-annual meeting.

22 That, first of all, additional is more  
23 time consuming on everybody's part, especially us  
24 preparing for the additional engagements, in whatever  
25 form they are.

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1           We have to decide, in advance, when these  
2           will occur, so that we must publish these meetings in  
3           the -- or these conference calls, in the Federal  
4           Register.

5           And then once we do that we will kind of  
6           be locked into the schedule, unless there is a very  
7           serious reason to change it. Sometimes we may have  
8           trouble getting a quorum together to reach resolution  
9           on an issue.

10          The -- so those are just some of the  
11          concerns. And, of course, then the increase in cost,  
12          because we would pay the members for preparation for  
13          the conference call, engaging in the call, and then  
14          the follow-up activities.

15          And so as an example, if we wanted to try  
16          that yet this fiscal year, it is probably going to be  
17          difficult to do, because of our budget is pretty well  
18          all spoken for.

19          So this might be something that we would  
20          have to defer until fiscal '04. And even though that  
21          is relatively fixed, there may be opportunity to do a  
22          little trading within the budget. That is to reduce  
23          some effort in some other area to create the resources  
24          to address this area.

25          What I would suggest is that on a trial

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1 basis, starting -- let's see, our next meeting of the  
2 Committee is going to be in the fall, so probably the  
3 October, November time frame.

4 I would suggest that we institute a series  
5 of noticed conference calls, publicly noticed  
6 conference calls, to fill in the three month -- during  
7 the, roughly, at the midpoint of the six month  
8 interval in between meetings.

9 So that we would have, the first one would  
10 probably be in the January '04 time frame, and we  
11 would put out a Federal Register Notice, we would have  
12 an agenda in that notice, and we would have to set up  
13 a conference call bridge that interested members or  
14 the public could call in to a toll free number, and  
15 listen in, and we would give them an opportunity to  
16 make comment if they so desire.

17 And so -- yes, I'm sorry?

18 MEMBER DIAMOND: It may be, that from the  
19 discussion earlier today, we may have addressed this  
20 issue. As you recall, we made a recommendation  
21 earlier today, that approximately two weeks after the  
22 disbursement of the Staff response, we would have an  
23 open telephone conference call, ACMUI, Dr. Miller's  
24 office, and the public, the purpose being primarily to  
25 go and resolve issues of discord, try to move priority

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1 items forward.

2 And perhaps at that same call we could  
3 also go and conduct this business. And that would  
4 fall perfectly in the middle between our spring and  
5 fall meetings.

6 And I think that one conference call  
7 between scheduled meetings here would probably suit  
8 our needs quite well.

9 CHAIRMAN CERQUEIRA: I think we had a  
10 discussion this morning, and just a statement, I'm  
11 against these preset monthly or bimonthly scheduled  
12 meetings which, you know, if we don't have enough  
13 agenda items, it is a waste of everyone's time.

14 And as we discussed this morning, in a  
15 closed session, we follow-up on the minutes, and then  
16 the Staff review of the previous meeting would be  
17 adequate. That would be, you know, at least two  
18 additional contact points a year, for a conference  
19 call.

20 And we could see how that works out, and  
21 then see if we need additional ones, if there are  
22 burning issues.

23 MR. ESSIG: I'd like to suggest that just  
24 on a trial basis, and then revisit the question. So we  
25 might, possibly, go ahead and schedule two of them in

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1 2004.

2 CHAIRMAN CERQUEIRA: Yes, that would be  
3 reasonable, because that would put some, you know,  
4 focus time commitments from the Staff to get the  
5 minutes out, and to find out whether the issues were  
6 addressed.

7 MR. ESSIG: Yes, and we could cover the  
8 issues that Dr. Diamond is reminding me of, and also  
9 any new agenda items, any -- this would be a good time  
10 to discuss any emerging issues that have come up,  
11 questions and so forth.

12 Yes, Ruth?

13 MEMBER MCBURNEY: Would there be a funding  
14 problem to have one between this meeting and the fall  
15 meeting? You said that --

16 MR. ESSIG: I would have to look into it,  
17 to be sure. It is hard to say, off the top of my  
18 head, but I would be willing to look into it.

19 MEMBER MCBURNEY: Good.

20 CHAIRMAN CERQUEIRA: All right. Well,  
21 thank you very much, and maybe we can move on to the  
22 next time, which is the T&E Rulemaking Status and  
23 Discussion, and Roger Broseus will be leading the  
24 discussion.

25 DR. BROSEUS: I want to thank you all for

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1       having me here today.

2                   CHAIRMAN CERQUEIRA: Roger, if you could  
3 maybe move to the side, because you are directly in  
4 front of the screen, there. Yes, just use that other  
5 microphone there, get a little closer to the  
6 microphone. That is good.

7                   DR. BROSEUS: By the way, there are a few  
8 extra slide sets here, I'm afraid we don't have enough  
9 for everybody in the audience. Angie, want to put  
10 these in the back?

11                   This is essentially a slide set I put  
12 together to cover both of our meetings today. I was  
13 lucky enough to be coordinating a public meeting this  
14 morning, with the Board present, and members of the  
15 public, as well as briefing, so a dual purpose set.

16                   Before I launch into the discussion, I  
17 just want to point out that there are a couple of  
18 members of our working group here in the audience  
19 today. Ron Zelac is with MSIB, material inspection  
20 safety inspection branch. I think that I saw John  
21 Zabco. John is back here, he is with the Office of  
22 State and Tribal Programs.

23                   Other members of the working group, which  
24 I'm the coordinator for, are David Walter, he is  
25 representing agreement states on the working group.

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1 He is from Alabama.

2 Susan Chidakel is from our office of  
3 General Counsel. Susan, I'm sorry, you are short, I  
4 didn't see you. It is an inside joke. Sally Merchant  
5 from the office of enforcement, and we also have  
6 representatives from our administration and office of  
7 information.

8 Some of the slides I'm going to present to  
9 you today, I'm going to run through very quickly,  
10 because we are short on time, and I want to be able to  
11 emphasize certain areas where we are looking for some  
12 input from ACMUI.

13 And this is one that I'm going to go  
14 through very quickly. You guys are familiar, already,  
15 I'm sorry ladies and gentlemen, with how we are to  
16 where we are today, with you all briefing the  
17 Commission, and so on.

18 This led to subpart J being incorporated  
19 into the Rule, etcetera, Staff working with ACMUI,  
20 Tony Tse is over here in the corner, he and Linda --

21 CHAIRMAN CERQUEIRA: Roger, for the sake  
22 of time and discussion I -- we should acknowledge all  
23 the people that have been involved, but if we list  
24 everyone it is going to eat up the whole time. And I  
25 don't mean to disrespect anyone.

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1 DR. BROSEUS: In the end there was a Staff  
2 paper that went forward to the Commission, with three  
3 recommendations, which was to use ACMUI's  
4 recommendations as the basis for the Rule, it was  
5 adopted by the Commission in SRM-02-0194. With the  
6 proviso that we list recognized boards on our website,  
7 rather than in the Rule.

8 We discussed, already, to a certain  
9 extent, and others have mentioned that we have to keep  
10 a preceptor statement as written in the Rule, and  
11 there was some discussion of that by Dr. Hendee, with  
12 the clarification that it is not clinical competency,  
13 but attestation of knowledge that we are after.

14 And we have heard the comments on that,  
15 and we will be working to that end. The SRM required  
16 a clear radiology determination to meet criteria, and  
17 they also talked about implementing procedures, which  
18 I want to come back to later in my discussion.

19 Now, ACMUI members have draft rule text  
20 that is pre-decisional, which the working group has  
21 put together in your materials that were presented to  
22 you this morning.

23 I want to mention how we got to where we  
24 are at in that today. First of all, the first part of  
25 your recommendation, to list the boards in the Rule is

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1 not there, because that was direction from the  
2 Commission, to be on the website, and all boards must  
3 be evaluated, okay?

4 We adopted most all of the changes, or  
5 intended to adopt most all the changes in the word of  
6 the Rule or the new Rule text that ACMUI presented,  
7 but we found some need for wording changes, which are  
8 reviewed in some slides that come up later.

9 There are also some changes you introduced  
10 into what have been commonly termed alternate pathway,  
11 which go a little bit beyond, in some cases, just  
12 writing rule text for recognition of boards, and the  
13 working group looked at that, too.

14 Now, one of the things that I want to  
15 mention, specifically, is ACMUI recommended that  
16 individuals, that T&E of an individual be evaluated to  
17 make sure that they have training or experience with  
18 new modalities, or new applications, or the ones they  
19 are going to be working with.

20 And an example of where that came in was  
21 in 35390, and your recommendation was the final little  
22 D in parenthesis. Now, you won't find it written that  
23 way in the draft that the Staff has prepared. We  
24 changed the numbering around to try to avoid  
25 redundancies.

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1           So, in general, there may be some cases  
2       where our numbering is a bit different from what you  
3       had in your draft. There are references in this  
4       presentation to numbering, they are the numbering in  
5       the revised draft proposed rule text, that is in the  
6       left-hand column of that table.

7           Another example of changes that we came  
8       across that feel are needed, and where the numbering  
9       needs to be addressed is in 392 and 394, there are  
10      back references to the experience requirements that  
11      ACMUI recommended, were oral administrations, for  
12      example.

13          And so the Staff has found a need that we  
14      are going to have to address, making sure that cross  
15      reference within the Rule is taking care of, when  
16      there are cross references back to 390. And we didn't  
17      see those changes in the ACMUI text.

18          The next point I want to get to, where we  
19      need some advice, is ACMUI recommended including the  
20      Royal College of Physicians and Surgeons of Canada in  
21      the list of approved entities for recognition of  
22      residency programs, and excuse my use of the term, and  
23      also as one of the boards that would be in the pathway  
24      for recognition of board certifications.

25          The Staff feels that we don't have a clear

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1 basis for including the Royal College of Physicians  
2 and Surgeons of Canada in the Rule. And so we would  
3 like to solicit some input from ACMUI on the basis for  
4 that.

5 CHAIRMAN CERQUEIRA: Jeff?

6 MEMBER WILLIAMSON: Well, I'm confused,  
7 because I thought we were taking all references to  
8 specific boards out of the rule. That I thought your  
9 revised rule text was going to have them all on a web  
10 page, so why does it matter whether we answer the  
11 question now?

12 DR. BROSEUS: There is a, and you will  
13 have to look at the Rule text later on. I wish I had  
14 time to go into these in detail, I just can't. There  
15 is a paragraph, or a section in here, where the  
16 Canadian Board is referenced in the Residency area,  
17 but not in the Board certification pathway.

18 DR. DIAMOND: Yes. I think you're correct  
19 on that point. Just from a writing standpoint, the  
20 reason that language was probably included was simply  
21 that of precedent. When we were making a team to  
22 rewrite these for clarification and updating we did  
23 not go and substantively change that type of  
24 information, so I cannot go and tell you why it is  
25 that way except that we did not add nor delete in our

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1 early draft versions. For example, the same thing  
2 would hold with the American Board of Osteopathic  
3 Radiology. When we made an attempt to delete that as  
4 an authorized user enumerated board, we ran into all  
5 that trouble with that.

6 DR. BROSEUS: The key issue here is it's  
7 a foreign board, no intent to separate out Canada from  
8 the rest of the world or whatever.

9 MS. MCBURNEY: It's an accreditation.

10 DR. BROSEUS: Pardon me?

11 MS. MCBURNEY: It's an accreditation  
12 rather than --

13 DR. DIAMOND: Yes. I don't think that's  
14 a board.

15 MS. MCBURNEY: It's a residency program.

16 DR. BROSEUS: A residency program. So we  
17 need a basis for including that. Given the amount of  
18 time I have, I'd like to move on, and then we have  
19 some time for more questions and discussion at the  
20 end, we'll go with that.

21 Going up to Slide Number 8, staff decided  
22 to recommend inclusion of -- I'm trying to present  
23 this efficiently. In the current rule, specialty  
24 awards may be recognized if they meet the requirements  
25 in the so-called alternate pathway. And there was

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1 some discussion in fact during your meeting last  
2 summer that that option be continued as a way for a  
3 board to satisfy NRC requirements. But it didn't come  
4 through in the final version of the document that you  
5 presented in the options paper.

6 Staff feels that keeping that option as  
7 one mechanism by which a board may satisfy NRC  
8 requirements is something we should have. It also  
9 satisfies the potential need of there is one board  
10 that has been recognized using that pathway, and we  
11 want to make sure that they don't lose their  
12 certification by some change to the rule.

13 I'd like to just hold the questions, if I  
14 can, to go through a couple more points.

15 CHAIRMAN CERQUEIRA: But it's an issue  
16 that does need to be brought up, I think. Jeff?

17 DR. WILLIAMSON: The intent of our group  
18 was to come up with general criteria that would not  
19 exclude the Board of Nuclear Cardiology and that would  
20 replace the more prescriptive requirements. As you  
21 know, we accepted that there was significant value  
22 added by the examination process and therefore felt  
23 somewhat more justified in making the alternate  
24 pathways more prescriptive, but I think the intent was  
25 all along that the alternate pathway requirements

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1 would at least be necessary conditions for fulfilling  
2 the more general requirements so that any board that  
3 satisfied the alternate pathway requirements would  
4 satisfy the general ones. That was the intent, so I'm  
5 not sure why it's necessary. Because I'm reading the  
6 text of your revised rule. I was very confused, and  
7 I thought that there was an error in transcribing it.  
8 And as I read it more carefully there may not be, but  
9 it's very convoluted.

10 DR. BROSEUS: Let me see if I understand  
11 what you said. Right now the rule allows a board to  
12 be recognized if they meet the alternate pathway. And  
13 you see that as something that's just to continue.

14 DR. WILLIAMSON: No. We thought that we  
15 were covering that case by adopting a more general set  
16 of criteria, that any board which met the alternate  
17 pathway requirements would also meet the general  
18 requirements minus the examination.

19 CHAIRMAN CERQUEIRA: This went back to  
20 long discussion about hourly requirements and  
21 eligibility requirements for the board, and I think  
22 several years back the feeling was that if a board  
23 could demonstrate that they had certain requirements  
24 in terms of content and hours, that that was one of  
25 the prerequisites for them being considered for the

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1 boards, and that was one of the criteria that was  
2 used. And I think it was the feeling that that should  
3 be continued to a large extent because it showed that  
4 at least the candidates for the board had had the  
5 minimum requirements for the alternative pathway. So  
6 I think the feeling of the Committee was to continue  
7 that.

8 DR. WILLIAMSON: To continue there might  
9 be some concern to recognizing and promoting a board  
10 that didn't require a peer review examination. That's  
11 also another concern, because you know what boards NRC  
12 recognizes has sort of impact on educational and  
13 training policy that goes beyond the specific  
14 application here.

15 DR. BROSEUS: When I finish up I'm going  
16 to -- I'll say it now -- I'm going to ask for feedback  
17 from you on some of the points I've made. But I will  
18 take right now absent additional feedback on this  
19 topic that it's the consensus not to put an "or" in  
20 there which would permit the boards to be recognized  
21 using the current system, basically.

22 CHAIRMAN CERQUEIRA: I didn't understand.

23 DR. BROSEUS: It's not clear?

24 CHAIRMAN CERQUEIRA: No.

25 DR. BROSEUS: Let me take an example.

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1 DR. EGGLI: Why don't you take 390 and  
2 just walk us through 390 and what you mean. Take Page  
3 11, I mean just to grab one that I'm looking at right  
4 now.

5 DR. VETTER: What about 290 since that's  
6 the Board of Nuclear Cardiology. It's under 290,  
7 isn't it?

8 MR. WILLIAMS: I don't know if that's a  
9 good case.

10 DR. BROSEUS: Can we go with a simple case  
11 for the sake of example, okay? It's at the beginning  
12 on the first page.

13 PARTICIPANT: Which page are we talking  
14 about?

15 DR. BROSEUS: Of the draft. At the bottom  
16 we have a certified -- or Number 2 -- "Certified by  
17 specialty board for the certification process includes  
18 all the requirements in Paragraph B of this section in  
19 the certifications we have recognized by the  
20 Commission on Agreements States." So this is  
21 basically retaining that, and it's my understanding  
22 that ACMUI doesn't want to do that. In other words,  
23 the could do what you wrote as the criteria for  
24 recognition of a board, which I'll loosely term  
25 academic intestine, or meet the alternate pathway,

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1 which is allowed now.

2 CHAIRMAN CERQUEIRA: It wasn't that the  
3 alternate pathway alone would be sufficient, because  
4 the examination and all those things needed to be  
5 looked at, but I'm just a little confused.

6 DR. WILLIAMSON: Two ninety isn't a good  
7 example because this is one in which we did say, I  
8 think, that the qualifying features of a board for  
9 imaging and localization actually would be the \$700,  
10 all that business. So this actually -- we lied to Dr.  
11 Hendee.

12 DR. BROSEUS: For RSO, ANP and AMP -- I  
13 think AMP, I'm not sure, I'd have to look at it.

14 DR. WILLIAMSON: But the AMP is --

15 DR. BROSEUS: In some cases it wasn't  
16 required.

17 DR. WILLIAMSON: Yes, that's right. So  
18 the AMP and I suspect maybe the Radiation Oncology  
19 authorized user for sealed source for radiotherapy may  
20 have been different.

21 CHAIRMAN CERQUEIRA: Ruth?

22 MS. MCBURNEY: I would think that for  
23 Radiation Safety Officer we would not want it just to  
24 be the alternate pathway inclusion, the 200 hours, for  
25 a board to be recognized, that the board certification

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1 should be the bachelor's degree and graduate degree  
2 and minimum of 20 college credits and so forth.

3 DR. VETTER: The intent of the  
4 Subcommittee was, I didn't have this in front of me  
5 before, but it was not to -- the intent was to not  
6 exclude any boards who had already been recognized.

7 MS. McBURNEY: Right.

8 DR. VETTER: So the Nuclear Cardiology  
9 Board. And therefore when we wrote this we  
10 accommodated that within our proposal. The intent  
11 also at that time was not to provide that pathway for  
12 any other boards but rather to write general criteria  
13 for which the boards would qualify.

14 DR. BROSEUS: Well, I've thrown in a red  
15 herring which I'll pull out of the water unless by the  
16 end of our -- unless later on you have additional  
17 thoughts. So I'll pull that out, okay? Okay. Now  
18 with that, I might move on. To me it was an important  
19 issue to make sure we're doing the right thing with  
20 this rule.

21 MR. LIETO: Are you pulling out the "or"  
22 or whatever comes after --

23 DR. BROSEUS: Well, for example, on Page  
24 1 at the bottom of this draft, where there are --  
25 where there's a retention of a board meeting the

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1 current rule as an alternative to what ACMUI wrote,  
2 I'll pull that off. I think I've confused things too  
3 much, and unless ACMUI feels that we should be doing  
4 something more than -- Dick just said it, I think, and  
5 I think it's a settled issue here.

6 Let me move on. There are some slides  
7 that I want to go over very quickly because we are  
8 very short on time. And what I'm going to ask is that  
9 the information I'm presenting in these slides that  
10 you consider this and if we have time for me to come  
11 to them, but I doubt that we're going to, but that  
12 ACMUI provide some feedback to me later on. And it's  
13 where I've talked about terminology, using quantities  
14 for where a written directive is required rather than  
15 therapeutic quantities and so on.

16 So I'm going to skip over slides up  
17 through Number 12 and go on to implementation with one  
18 exception. And during the discussion by Dr. Hendee in  
19 our meeting this morning -- let me look at my notes  
20 here -- I heard in the meeting earlier on that it  
21 wasn't ACMUI's intent to prescribe numbers of hours of  
22 training. However, in certain cases, the way you  
23 wrote the proposed rule, by referencing what's already  
24 in the rule that actually happened. And so I take it  
25 that you did not mean to overwrite that, and do we

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1 need an example?

2 DR. WILLIAMSON: I think that you're  
3 absolutely right. In reviewing what we originally  
4 wrote for 190, 290 and 390, we kept the hours of  
5 training and experience and the detailed breakdown in  
6 tact I think under the belief that that requirement  
7 was considered uncontroversial in terms of board  
8 eligibility compliance. Now, that may not be true,  
9 and if that's -- we explicitly decoupled those in the  
10 case of 400, 600, the AMP and the Radiation Safety  
11 Officer, but we did not decouple them for 100 to 200  
12 and 300.

13 DR. BROSEUS: Okay. Mr. Malmud?

14 DR. MALMUD: I apologize for my ignorance,  
15 but I am totally confused by what you are trying to  
16 get me to understand.

17 DR. BROSEUS: That's my fault.

18 DR. MALMUD: May I ask what's the first  
19 point that you would like me to understand under the  
20 proposed rule to amend 10 CFR Part 35 requirements D  
21 and E, these slides, as it applies to this text?  
22 What's the first item that you would like me to  
23 understand.

24 DR. BROSEUS: To understand or to get  
25 feedback on?

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1 DR. MALMUD: I didn't hear you, I'm sorry.

2 DR. BROSEUS: To understand or to get  
3 feedback, I'm sorry.

4 DR. MALMUD: To understand. I can't give  
5 you feedback until I understand it.

6 DR. BROSEUS: Okay. The very first one is  
7 that we used ACMUI's recommendations, the basis for  
8 draft and proposed for the text that you have in the  
9 left column of that handout.

10 DR. MALMUD: You are proposing that on  
11 Page 1, Item 35.50 be accepted as it is.

12 DR. BROSEUS: No. No. It's for you to  
13 look at and review. This is our draft. This is first  
14 column in this handout that you have --

15 DR. MALMUD: Yes.

16 DR. BROSEUS: -- is our Working Group's  
17 first draft, our best attempt to get what ACMUI wanted  
18 to --

19 CHAIRMAN CERQUEIRA: Roger, could you get  
20 closer to the microphone? I think some of the  
21 audience in the back probably -- yes. All right. So  
22 current rules means that revised Part 35 --

23 DR. BROSEUS: Yes. Yes.

24 CHAIRMAN CERQUEIRA: -- which was  
25 published in May of 2002 and became the rule --

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1 DR. BROSEUS: Yes. Yes.

2 CHAIRMAN CERQUEIRA: -- in October 24,  
3 2003, that there was a draft proposal that was put  
4 together by Dick Vetter and his Committee addressing  
5 some of the problems that we had not dealt with  
6 adequately in terms of board certification and other  
7 things. And so that was submitted to the Committee.  
8 Now, the draft proposed, which is on the left hand  
9 side of Page 1, that is your modification of what was  
10 sent to you? Is that --

11 DR. BROSEUS: This is what we have come up  
12 with as draft proposed rule text based on ACMUI's  
13 recommendations and then qualified with the points  
14 that I'm making where we saw a need for changes of  
15 wording and so forth.

16 DR. DIAMOND: See, Roger, the problem is  
17 this: I have my redline copy of all the work that  
18 Dick's Committee went through, and this is the first  
19 time I've seen your draft modifications. As I'm going  
20 through, there are differences in numbering, there's  
21 differences in wording, there's differences in syntax  
22 and structure, and I'm getting one hell of a whopper  
23 headache over here trying to figure out if the  
24 response I'm giving to you and Dr. Hendee is still  
25 what I tried to write or what Jeff tried to write.

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1 CHAIRMAN CERQUEIRA: Well, it was the old  
2 -- the revision or the revision of the revision, and  
3 I'm not sure we can adequately deal with this seeing  
4 it for the first time.

5 DR. DIAMOND: It's really difficult  
6 because I'm probably the only one here that has all  
7 this redline, what we were trying to do, how we  
8 proceeded with it, and I've been here for 20 minutes  
9 --

10 CHAIRMAN CERQUEIRA: I'm doing basically  
11 three and a half years worth of the Committee's work,  
12 to a large extent, because the revision of the revised  
13 rule was dealing with -- you know, making some  
14 modifications to address specific issues that had  
15 arisen. And this really kind of takes it in a whole  
16 other direction that I'm not sure we want to go in.  
17 Ralph?

18 MR. LIETO: Can I make a recommendation  
19 that you take what the Subcommittee submitted to the  
20 Working Group and do an editing with the strike-  
21 throughs and redlining and so forth? That way we will  
22 be able to compare. That way we can give you feedback  
23 as to what you're doing that meets the intent of the  
24 Committee as well as do we really have some points of  
25 contention. Because --

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1 DR. BROSEUS: Yes. I hear you.

2 MR. LIETO: And I think that might be the  
3 easiest place to go from here.

4 CHAIRMAN CERQUEIRA: Trisha, do you want  
5 to make a comment?

6 MS. HOLOHAN: I agree with that comment.  
7 If we could do what Dr. Lieto suggested and do a  
8 redline strike-out of the ACMUI Subcommittee's  
9 recommendations and give them the revised rule  
10 language that the Working Group has come up and make  
11 corrections, yes.

12 CHAIRMAN CERQUEIRA: But I'm a little  
13 disappointed that this far into the process this is  
14 basically being presented to the Committee without  
15 having had some discussion with Dr. Vetter and his  
16 group. I think there should have been discussions  
17 with them, and certainly any kind of presentation to  
18 get meaningful advice from the ACMUI should have been  
19 given to us earlier.

20 DR. NAG: Manny, I'd like to make a  
21 suggestion. Whenever we are having a Subcommittee  
22 meeting reform and making a major discussion and  
23 changes, we have the appropriate member of the NRC be  
24 placed in there so that they are aware of the  
25 discussion, because otherwise we write up a

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1 recommendation and give it to them. They may not be  
2 fully aware of all the discussions that have gone on,  
3 and it goes round and round and round. If they are  
4 there at the beginning, they know why we make certain  
5 recommendations and why that was done, and that  
6 miscommunication would be less.

7 MS. HOLOHAN: But if I can make one  
8 comment. Really what we need from you today is the  
9 basis for the Royal College of Physicians in Canada.  
10 And you indicated that there wasn't a real basis, and  
11 --

12 CHAIRMAN CERQUEIRA: I'm not sure we  
13 understood it, to be honest, and I don't think we can  
14 just take one specific thing out of the whole package.

15 DR. WILLIAMSON: Could I make a  
16 recommendation?

17 CHAIRMAN CERQUEIRA: Sure.

18 DR. WILLIAMSON: I think that these are a  
19 whole panoply of very complicated issues has been  
20 raised. I don't think we can do justice to any of  
21 them, including the Canadian College issue, so I  
22 recommend that we schedule a Subcommittee meeting with  
23 Roger and others who are involved, publicly noticed if  
24 necessary in the near future, to work through these  
25 nitty gritty details and then report back to the

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1 parent Committee. I really think that we need to do  
2 much more work, have a lot of advance time to read  
3 through this document. I think we've been apprised of  
4 some of the issues. We did have a large briefing book  
5 put together for us on all the different specialty  
6 board, which may well have included the Canadian  
7 organization, so we'll have to do a little research on  
8 that issue.

9 CHAIRMAN CERQUEIRA: I think definitely --  
10 I mean the Subcommittee did a lot of work, the main  
11 Committee and those of us who've been on this thing  
12 for four years have spent a lot of time, and you're  
13 sort of relatively new into the process. There's a  
14 lot of stuff that's going on, and to just get this now  
15 without being able to review it in detail I don't  
16 think is going to be meaningful to you.

17 DR. BROSEUS: I appreciate that. Part of  
18 this is an artifice of the time constraints we're  
19 under to get something out and have it in place before  
20 Subpart J disappears.

21 CHAIRMAN CERQUEIRA: Well, but that's why  
22 this Subcommittee did its work in a very timely  
23 fashion. I think Dr. Vetter should be commended --

24 DR. BROSEUS: Well, I wasn't saying --

25 CHAIRMAN CERQUEIRA: Well, but to get it

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1 out -- just to get it out without making it accurate  
2 we're going to run into the same problem we had the  
3 first time.

4 DR. DIAMOND: It's very important. This  
5 document under Dick's leadership we met a timeline for  
6 July of 2002 and we worked our tails off to make it  
7 happen. And it would have been much better had we had  
8 our submitted language and then perhaps your revisions  
9 or a redline of the same, because there's -- this is  
10 no basis for comparison today.

11 CHAIRMAN CERQUEIRA: And some discussion  
12 with the group. The group would have been willing to  
13 discuss this with you, and any kind of redlining  
14 without understanding some of the reasoning that went  
15 into it is just going to be more work, and I think  
16 some discussion with Dick or with the Committee would  
17 really identify some of these issues, giving people  
18 the chance to go back and review why certain decisions  
19 were made. That's critical.

20 DR. BROSEUS: I'm going to have to ask  
21 Trish and Sandy about what we can do timewise to  
22 accommodate that suggestion and how we can move  
23 forward. One suggestion is to distribute a redline  
24 strike-out to have reaction back. Another one is for  
25 the Subcommittee to reconvene and talk and so on. And

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1 I can't say yes or no.

2 CHAIRMAN CERQUEIRA: Well, just a comment  
3 on my part. Getting back to some of the discussions  
4 we had this morning and where the communication  
5 between the Committee and the staff has fallen apart,  
6 this is a clear example of it, and I think the  
7 Committee feels frustrated that we spent a lot of  
8 time, a lot of work, we set timelines that we're going  
9 to be able to get the revision out in a timely fashion  
10 to meet the 2005 implementation deadline, and all of  
11 that work was not dealt with appropriately by the  
12 staff. You were not involved in the process from the  
13 beginning, so I don't want to fault you, but I think  
14 we need to communicate with the Committee so that  
15 we've spent the time giving you the recommendations  
16 and you're recreating a lot of work that with some  
17 input from the Committee could have been verified and  
18 you wouldn't have had all these issues.

19 DR. VETTER: Let me just say that Roger  
20 did call me on one occasion a couple of weeks ago to  
21 try to clarify a few things. This is the first  
22 opportunity I've had to see anything in writing. But  
23 I don't want us to go away thinking that Roger and his  
24 Subcommittee weren't attempting to communicate with  
25 the Committee.

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1 DR. BROSEUS: I do want to say that we  
2 were diligent about being careful to take ACMUI's  
3 recommendations to heart and where we had differences  
4 to identify them. And my purpose in coming here today  
5 was to identify those defenses. I think all the  
6 difficulties are arising from there's so much to deal  
7 with in such a short period of time.

8 PARTICIPANT: Roger, we can't hear you  
9 back here.

10 DR. BROSEUS: I'm very sorry. I said I  
11 just wanted to point out that we were very diligent in  
12 working to make sure that we used ACMUI's  
13 recommendation, as modified by the SRM and so on. And  
14 my purpose in coming here today was to identify where  
15 those differences came up. I think that the  
16 difficulty arises we have such a short period of time  
17 to review it that that's the hurdle. I've asked for  
18 some advice on what I can do from our Deputy Division  
19 Director, and can you help me out on this a little  
20 bit, Trish?

21 MS. HOLOHAN: And I just wanted to point  
22 out that there's very few changes -- there's about  
23 half a dozen changes from what the ACMUI recommended,  
24 except for the preceptor statement that was directed  
25 by the Commission to be identical to the current rule.

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1 Otherwise, there's about half a dozen changes, and I  
2 wanted to say that we can certainly work with the  
3 Subcommittee or the full Committee in resolving this,  
4 but our timing is such that we have to get a final  
5 rule up to the Commission by the end of July. So  
6 whether we do it by Subcommittee, and we're certainly  
7 happy to work with them, or the full Committee --

8 CHAIRMAN CERQUEIRA: Well, I'd recommend  
9 that you work with the Subcommittee at this point,  
10 because they've been involved in the issues.

11 DR. BROSEUS: I'd like to remark about the  
12 recommendation of preparing a redline strike-out. The  
13 way the rule language is structured and so on, a  
14 redline strike-out in making a direct comparison  
15 between ACMUI's draft and what we have would be  
16 somewhat difficult, and there may even be a need to  
17 identify differences as I have today, because it's not  
18 just a matter of feeding it into the computer and out  
19 comes the redline strike-out, because there are so  
20 many different --

21 CHAIRMAN CERQUEIRA: Roger, can you bring  
22 the microphone closer?

23 DR. BROSEUS: Yes. There are so many  
24 differences that we're not going to be able to just  
25 feed this into the computer and get a redline strike-

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1 out. I'll leave that as it is.

2 So what I'm hearing is that we need to get  
3 back together with the Subcommittee maybe chaired by  
4 Dr. Vetter and look at what we've done?

5 CHAIRMAN CERQUEIRA: Richard, are you and  
6 the Subcommittee willing to do it?

7 DR. VETTER: Can this be done by  
8 conference call?

9 CHAIRMAN CERQUEIRA: I think that would be  
10 the most efficient, and it's a subcommittee so we  
11 don't need all the public notices, correct?

12 PARTICIPANT: No.

13 PARTICIPANT: Maybe two weeks notice.

14 CHAIRMAN CERQUEIRA: Two weeks? Okay.  
15 All right.

16 MR. LIETO: I'm confused. Now, the  
17 Subcommittee is going to work with Roger. What about  
18 the rest of the Committee?

19 CHAIRMAN CERQUEIRA: Once they've had a  
20 chance to go through, I think, make some of the  
21 clarification points, then it needs to come back to  
22 the Committee for the review of it. To get the whole  
23 Committee involved I don't think is going to be an  
24 efficient use of the time. It would be better don  
25 with a small number of people who are intimately

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1 involved with developing it and then bring it back to  
2 the main Committee.

3 MR. NAG: There's a problem with the  
4 timing because they have to do this by the end of  
5 July. If the Subcommittee works with Roger, when does  
6 the whole Committee get together? And then by July  
7 they have to send it to the Commission.

8 MS. HOLOHAN: And we have to send it out  
9 to the Agreement States as well for a 30-day comment  
10 period.

11 DR. BROSEUS: Is it possible to work with  
12 the Subcommittee and have them bring substantive  
13 issues back to ACMUI?

14 CHAIRMAN CERQUEIRA: No. I think they can  
15 issue it to the whole report. We don't have to  
16 physically, publicly meet on it. I think it can be  
17 sent out to them as a draft, solicit comments and then  
18 the comments can be sent to me and I can -- if there  
19 are substantive disagreements, then I can make the  
20 decision whether we need to convene a conference call  
21 of some sort, but I think that's the most expedient  
22 way to get it done.

23 MS. HOLOHAN: Can I make another proposal?

24 CHAIRMAN CERQUEIRA: Yes.

25 MS. HOLOHAN: If we send it out to the

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1 Agreement States as well as the full Committee at the  
2 same time and get your comments and we can get the  
3 Agreement State comments too.

4 CHAIRMAN CERQUEIRA: Okay. Jeff Brinker?

5 DR. BRINKER: If you can't supply us, and  
6 I hear that you may not be able to in appropriate  
7 fashion, a redline comparison, it might be helpful for  
8 you to reproduce your new wording with highlighted or  
9 annotated explanations of what you think are  
10 substantive changes that you had to introduce, felt  
11 you had to introduce and perhaps why there was a  
12 change so that as we go over this ourselves, we could  
13 rapidly identify where a change was made and get some  
14 idea of why you changed it.

15 CHAIRMAN CERQUEIRA: I think that would be  
16 an appropriate thing. We've gone over our break  
17 period. I think we should break and try to reconvene  
18 at two o'clock. Now, Roger, I don't mean to cut you  
19 off but we're starting to fall behind.

20 DR. BROSEUS: I understand.

21 CHAIRMAN CERQUEIRA: And so the plan is to  
22 basically have you work with the Subcommittee to get  
23 the intent of some of these issues and then try to  
24 come up with a version that will go to the main  
25 Committee and the Agreement States at the same time to

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1 try to meet a July 1 timeline.

2 MS. SCHWARZ: I'm just thinking that in  
3 terms of a redline copy at least it would be good to  
4 see what we had written originally as the Subcommittee  
5 on the one side and then what you're writing on the  
6 other side, just so that they sort of line up and we  
7 can see where you've changed things as you go, even if  
8 it's not really truly redlined.

9 DR. BROSEUS: Would that be more useful  
10 than having a side-by-side comparison of revised  
11 proposed rule versus the existing rule?

12 DR. NAG: It would be more helpful to have  
13 what the issue and what the Subcommittee proposed and  
14 what you propose side by side.

15 MS. SCHWARZ: Right.

16 DR. NAG: That would be more helpful.

17 CHAIRMAN CERQUEIRA: That would be  
18 helpful. Jeff, one last comment.

19 DR. WILLIAMSON: Okay. I think it's  
20 unfortunate we didn't get to the one substantive point  
21 that I'm really concerned about that could make quite  
22 a mess of this. We are required to put the preceptor  
23 back in in exchange for program director, and I think  
24 if it's left in such a position as to be a  
25 qualification for a board, we could be precisely back

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1 where we were, so I think some thought how to  
2 incorporate the preceptor requirement the Commission  
3 has imposed on us without making it impossible for the  
4 boards that exist to qualify is a challenge that I  
5 wish we would have had some time to talk about.

6 CHAIRMAN CERQUEIRA: Yes. Okay. Let's  
7 try to reconvene at 3:05. Thank you.

8 (Whereupon, the foregoing matter went off  
9 the record at 2:57 p.m. and went back on  
10 the record at 3:09 p.m.)

11 CHAIRMAN CERQUEIRA: All right. "Sealed  
12 Source Model Numbers as License Conditions." Donna-  
13 Beth Howe, Ph.D., will now do the less controversial  
14 presentation, I hope.

15 (Laughter.)

16 DR. HOWE: Well, I think based on this  
17 morning, I'm not sure I'd go there. Essentially this  
18 is one of the issues that the ACMUI brought up as a  
19 recommendation at the last advisory committee meeting,  
20 and Angela later on will be going through the other  
21 recommendations and the results of those  
22 recommendations.

23 So if you look in your tabs, update  
24 recommendation for fall 2002 meeting, you'll see on  
25 page 2 of 3 a little bit more text that goes with,

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1 that explains the resolution.

2 I only have essentially four slides. Two  
3 of them are to remind you of what the current  
4 regulation is, and the other one is to give you the  
5 recommendation and then the results.

6 Okay. At the last advisory committee, the  
7 ACMUI recommended that NRC initiate a rulemaking  
8 process to modify 10 CFR Part 35 to overrule 10 CFR  
9 Part 30.32(g)(1), to allow more generic listing of  
10 interstitial seeds and sources on NRC licenses.

11 Well, the staff took your recommendation,  
12 and they evaluated it. They put it in the context of  
13 what else is happening at the NRC, and they came to a  
14 determination that they were unable to support the  
15 stated rulemaking initiative.

16 And I've summarized the staff's reasoning  
17 on the next slide, and you'll see, I think -- as you  
18 were settling in, I was trying to indicate that you'll  
19 see on one of your later tabs a little more lengthy  
20 discussion of this.

21 But essentially the staff decision was  
22 based on protecting public health and safety. They  
23 felt that the rulemaking would ultimately reduce the  
24 radioactive source accountability, and in today's  
25 environment after 9/11, the NRC and the Commission are

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1 very concerned about source and material  
2 accountability and security.

3 They felt that the regulation in Part 30  
4 as it stands insures licensee maintain a full  
5 accountability, and it assist them in making an  
6 accurate inventory and in preventing losses of their  
7 sources and devices.

8 And by identifying the requirements for  
9 all sources and devices, they thought they were  
10 reasonable in assuring accountability and that was a  
11 result of 9/11, it's not prudent at this time to  
12 reduce accountability requirements.

13 And they looked at this issue in  
14 relationship to the Commission actions with other  
15 sources and devices, specifically looking at what  
16 we're thinking of doing with the general license  
17 devices, which would be in a similar category.

18 And then the next slide was just to remind  
19 you of what 30.32(g)(1) says. You have two  
20 alternatives. One is to identify the sources or  
21 device by manufacturer and model number as it's  
22 registered with the Commission in the sealed source  
23 and device registry.

24 The other would be to provide additional  
25 information which is much more lengthy in 32.210, and

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1 the last slide shows you that.

2 We will point out that you only have to  
3 identify the source or device by manufacturer and  
4 model number. So if you have a device with sources in  
5 it, you can identify the device by manufacturer and  
6 model number, and then the sources that go with it  
7 will automatically be understood.

8 So you asked if I brought a  
9 noncontroversial issue, and based on this morning, I  
10 know it's not a resolution that the ACMUI wanted to  
11 hear, but this is where the staff came out.

12 CHAIRMAN CERQUEIRA: Okay. Jeff, your  
13 hand was up first.

14 DR. WILLIAMSON: Well, I guess I don't  
15 understand how this jeopardizes source accountability  
16 or health and safety. I think one of the applications  
17 we had in mind where there would be a serious problem  
18 is prostate brachytherapy, where the number of seed  
19 models available on the market are from two in 1999 to  
20 now nearly 20, and essentially prostate brachytherapy  
21 seeds have become commoditized, and you know, this  
22 would be a serious restriction in the ability of  
23 hospitals to negotiate for the best price for seeds  
24 that many regard as generically equivalent.

25 So I'm wondering if some other solution

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1 that wouldn't have the implications for other devices  
2 couldn't be developed whereby, for example, in the  
3 source accountability process within Part 35 you  
4 required recording of the model number to be done with  
5 the other information, but yet would free the user or  
6 licensee from having to write a license amendment  
7 every time they wanted to change source vendor.

8 So this was the issue. So I'm wondering  
9 if with a little more thought put into the matter, if  
10 a solution couldn't be developed that would eliminate  
11 this essentially nitpicking requirement that doesn't  
12 serve public health at least within the context of  
13 interstitial brachytherapy, but yet respond to the  
14 concerns, the general, I'll admit, very vaguely stated  
15 concerns about public health and safety and  
16 accountability that you mentioned.

17 DR. HOWE: I think right now the  
18 recommendations that are being made to the licensees  
19 is that they up front list as many manufacturers and  
20 model numbers as are on the market in order to  
21 maintain that flexibility.

22 CHAIRMAN CERQUEIRA: Jeffrey, what's wrong  
23 with them doing that? Is there a negative to that?

24 DR. WILLIAMSON: Well, yes. New sources  
25 seem to be appearing and disappearing, you know, still

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1 at quite a clip.

2 CHAIRMAN CERQUEIRA: Okay. So, again,  
3 it's just that new things come out all the time, and  
4 it sounds like the rate of new systems is very rapid.

5 DR. NAG: I think there be confusion in  
6 the part that when you see they are new in the sense  
7 of a model number, but essentially they're the same.  
8 They have the same or very similar number of  
9 millicurie or the same material, whether iodine or  
10 paladium. It looks the same. The size are the same.

11 So there is no essential difference  
12 between these 15 or 20 new sources. So there should  
13 be no difference in terms of basic safety, in terms of  
14 public safety whether they are using Model A, B, C, D,  
15 E, or F.

16 So I think you can very easily write a  
17 generic statement "encapsulated radioactive iodine" or  
18 "encapsulated paladium," and that's it, rather than  
19 saying Model XYZ from Theregenics (phonetic) or Model  
20 ABC from this company.

21 CHAIRMAN CERQUEIRA: So, Dr. Howe, that's  
22 not a possibility based on your interpretation of the  
23 rule; is that correct? I mean, that would be an easy  
24 fix.

25 DR. HOWE: I think our guidance right now

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1 from our general counsel is that the requirement in  
2 30.32 stands, and to meet that requirement a licensee  
3 needs to provide the manufacturer and model number of  
4 sources, or if you're lucky enough to have a device  
5 that has a number of sources, then you can do that for  
6 the device.

7 MR. LIETO: That doesn't happen with IDBT.  
8 You have to list -- you get approved for the device.  
9 Okay? They come out with a new source that goes into  
10 the source registry, just a different activity source.  
11 You have to amend your license, and so that doesn't  
12 really occur.

13 If the issue is about accountability and  
14 inventorying, okay, I'll be honest with you. Thirty  
15 doesn't have anything to do with it. Okay? You have  
16 to keep inventories already as a part of Part 20 and  
17 Part 35 and doing inventories on your sources. In  
18 fact, you do it on more sources than are listed  
19 actually on your license because you're doing it for  
20 your dose calibrator sources, all of these other  
21 things that are not listed specifically in your  
22 license by model number.

23 You're doing accountabilities, leak  
24 testing to meet that requirement. So Part 30 really  
25 I don't believe -- if the issue is that you need to

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1 have it registered because Part 30 says that for  
2 accountability, really licensees are doing it to meet  
3 the other regulations for sources that aren't even  
4 covered by this.

5 And so like I said, also every time you  
6 get a new source or let's say you have a device that's  
7 approved and a different vendor comes out with a  
8 source that's compatible with that and the source has  
9 been registered in the source registry. You still  
10 have to go back and amend your license for that source  
11 in that device.

12 DR. HOWE: And Part 20 has your security  
13 and accountability requirements. The group that  
14 evaluated your request believes that Part 30 also aids  
15 in, and the General Counsel has made a decision that  
16 when the licensee provides this information, that it  
17 goes onto the license, and then NRC can also search.  
18 There are licensing databases to determine who has  
19 specific sources.

20 CHAIRMAN CERQUEIRA: But, Dr. Howe, you  
21 said counsel made recommendations, but the staff  
22 itself that reviewed it, did you have any concerns,  
23 you know, relative to the safety of the public,  
24 patients, and users?

25 DR. HOWE: I am the messenger.

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1 (Laughter.)

2 DR. HOWE: And I was not part of the group  
3 that made the decision. So I cannot --

4 CHAIRMAN CERQUEIRA: Is General Counsel  
5 Here who reviewed it?

6 MS. CHIDAKEL: I am here from the Office  
7 of General Counsel.

8 CHAIRMAN CERQUEIRA: Can you use the mic?

9 MS. CHIDAKEL: What do you want to know?

10 (Laughter.)

11 PARTICIPANT: What is the basis of the  
12 decision?

13 MS. CHIDAKEL: I'll tell you the truth.  
14 I will have to take your concerns and questions back.

15 I'm sorry. Hi. I'm aware of this opinion  
16 by the Rulemaking Division of the Office of General  
17 Counsel. However, I am just really here more to  
18 listen to Donna-Beth today rather than to address the  
19 issues. I really came here because of my working  
20 group affiliation with Part 35 on that rulemaking on  
21 the T&E.

22 If you have specific questions or  
23 concerns, I think the best thing to do would be to  
24 just let me know them and let me take them back to the  
25 office and consider them rather than giving you

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1       answers off the top of my head.

2                   MS. WILLIAMSON: State your name, please,  
3       for the record.

4                   MS. CHIDAKEL: I beg your pardon?

5                   MS. WILLIAMSON: State your name for the  
6       record.

7                   MS. CHIDAKEL: Oh, Susan Chidakel, C-h-i-  
8       d-a-k-e-l.

9                   CHAIRMAN CERQUEIRA: Great. Well, thank  
10      you, Susan.

11                  MS. CHIDAKEL: And I'll be happy, you  
12      know, to consider your questions, but I just don't  
13      feel prepared right now just to give you answers on  
14      this.

15                  CHAIRMAN CERQUEIRA: Jeff?

16                  DR. WILLIAMSON: Could you identify the  
17      safety and health hazards that you think this change  
18      would -- well, two questions. What are the health and  
19      safety hazards you think would result from this  
20      change?

21                  And, two, if the issue is that this is a  
22      very general restriction where you think it has value,  
23      for example, making people list the model of Cobalt 60  
24      teletherapy sources in their license, you don't want  
25      to get rid of that.

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1           Is it not the case that in Part 35, which  
2           is more specific, you can have rules that contradict  
3           for a very limited class of sources the Part 30 and  
4           Part 20, and then those rules would, in fact, prevail  
5           but only over that limited domain?

6           DR. HOWE: The concept that you could have  
7           more restrictive language in Part 35 that would be  
8           more appropriate for 35, that's true, and your  
9           recommendation was taken to the Rulemaking and  
10          Guidance Branch, also the branch that I'm in, and the  
11          division, and they looked at your issue in the scope  
12          of what the Commission is doing right now in all areas  
13          and decided that this was not the time to go forward  
14          with this rulemaking initiative.

15          As the messenger, I cannot give you the  
16          discussion and rationale that went through as they  
17          came to this discussion. I can only reiterate the --

18          DR. WILLIAMSON: Couldn't a more surgical  
19          and restrictive exemption to 30.32 be made within the  
20          language of Part 35 that wouldn't extend to all of  
21          these other sources, sealed sources, that may be of  
22          concern to that group?

23          Because it's hard for us to believe that  
24          iodine and Iridium 192 interstitial sources are the  
25          cause of their concern.

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1 DR. HOWE: I wasn't there, but my  
2 understanding is there was a concern that at the time  
3 when the Commission is going forward to identify  
4 sources and may be moving in a direction from  
5 generally licensed to considering whether some of the  
6 generally licensed devices need to be regulated more  
7 tightly and may even go into specifically licensed,  
8 into specific licenses, that the staff didn't feel  
9 comfortable moving in the opposite direction to these.

10 DR. WILLIAMSON: But we are not under a  
11 general license. This has nothing to do with that  
12 issue.

13 CHAIRMAN CERQUEIRA: Donna-Beth, as a  
14 health physicist --

15 DR. HOWE: Yes.

16 CHAIRMAN CERQUEIRA: -- I mean, the  
17 question was asked in terms of risks to patients,  
18 physicians, you know, users, and the public. Do you  
19 see any risk how not listing an individual, you know,  
20 manufacturer, serial number, and everything on the  
21 license would somehow impose a greater risk to those  
22 groups as a physicist?

23 DR. HOWE: Let me pass that to Ron Zelac.

24 DR. ZELAC: This is Ron Zelac, for the  
25 transcriber.

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1 I was not involved in the decision on  
2 this.

3 (Laughter.)

4 DR. ZELAC: Nor was I involved in the  
5 follow-up to it. However, I have heard peripherally  
6 that one of the reasons that was stated for not moving  
7 in the direction of having, if you will, a general  
8 entry on the license was that if the licensee was  
9 contemplating the use of a particular manufacturer's  
10 sealed sources and had to supply to the agency the  
11 model of that source and the manufacturer, this gave  
12 the licensing agency, us in this case, the opportunity  
13 to be sure that that particular source was, in fact,  
14 registered through the sealed source and device  
15 registry and had been deemed satisfactory for the  
16 intended medical use.

17 If it was a general authorization that the  
18 licensee had, a particular licensee could be  
19 approached by some organization claiming that, in  
20 fact, the source was registered, and if the licensee  
21 didn't demand proof of that, they could be, in fact,  
22 moving in the direction of starting use of a source  
23 which had not been deemed yet as satisfactory for such  
24 applications.

25 CHAIRMAN CERQUEIRA: Well, I guess I'm a

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1 little confused in the sense that, you know, if it's  
2 a political or if it's sort of an NRC administrative  
3 issue that, you know, for safety concerns and  
4 everything they're not going to do it relative to  
5 national security, that's one thing. And I guess  
6 you've pretty much heard the opinion of the committee  
7 that it really doesn't compromise safety in any way.

8 You know, Jeff, this may be an appropriate  
9 time to basically make a motion to the committee that  
10 it be reconsidered, that it's the feeling of the  
11 committee that there is no additional risk to  
12 patients, users, or public.

13 DR. NAG: Well, I think what may help,  
14 just like there used to be misunderstanding or lack of  
15 communication between staff and ACMUI, maybe a member  
16 of ACMUI would talk with the General Counsel who may  
17 or may not have the full knowledge about the  
18 differences between different models and different  
19 types of sources. That might clear up that issue in  
20 some way so that, you know, we have more communication  
21 not only with the staff, but more communication with  
22 the General Counsel.

23 CHAIRMAN CERQUEIRA: Yeah, I think that  
24 would be appropriate because, I mean, you know,  
25 obviously as you said, you're the messenger. Counsel

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1       wasn't involved, and so the committee has made a  
2       recommendation, you know, feeling that this was the  
3       best thing to do, and now we're told we can't do it,  
4       but are not able to really discuss with anyone who was  
5       involved in the decision process.

6               DR. WILLIAMSON:     Yeah, with no good  
7       reasons being provided other than rumors.

8               CHAIRMAN    CERQUEIRA:       And     that's  
9       frustrating.  So I guess, Jeff, did you say you had a  
10      motion?

11              DR. WILLIAMSON:  Yeah, I guess.  Whereas,  
12      the ACMUI sees no patient, no conceivable patient or  
13      public health hazard from listing interstitial  
14      brachytherapy sources generically on license  
15      applications, the ACMUI asks that NRC reconsider and  
16      develop a strategy for eliminating this burdensome  
17      licensing requirement for this narrow class of  
18      sources.

19              CHAIRMAN CERQUEIRA:  Excellent.  Do we  
20      have a second on that?

21              Okay.  Further discussion?

22              DR. BRINKER:  Can I ask one question of  
23      Mr. Zelac?

24              CHAIRMAN CERQUEIRA:  Yes.

25              DR. BRINKER:  Because his point did ring

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1 a little bit in my mind.

2 Do people who make these sources not have  
3 to have some sort of regulatory certification to sell  
4 them for medical use?

5 DR. NAG: FDA.

6 DR. BRINKER: So if they have that,  
7 doesn't that preclude that some unauthorized product  
8 might be introduced surreptitiously, or whatever that  
9 word is?

10 DR. HOWE: I can clarify a little bit of  
11 that, and then I can pass it back to Ron, and that is  
12 that we have a good example with the Novoste,  
13 intervascular cardiology. Novoste went to FDA for  
14 approval, but they had an IDE exemption in order to  
15 use the Novoste product before they got FDA approval.

16 So they were able to use the sources.  
17 They elected not to get into the sealed source and  
18 device registry until they had finalized the product.  
19 So in that case we had research basically going on in  
20 the broad scope licenses because the broad scope  
21 licenses have a little bit more leeway on the sources  
22 that they hold in which the source wasn't part of the  
23 registration process until later in the game.

24 Most of the other sources and  
25 manufacturers we had have come in for the sealed

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1 source and device registration early on, and they've  
2 been in the registration as soon as they've gone out  
3 for use.

4 CHAIRMAN CERQUEIRA: But this is an  
5 exemption, right? I mean --

6 DR. HOWE: That's just an example.

7 DR. DIAMOND: That's not a fair  
8 comparison, however, because you know, as we made our  
9 recommendation and as Jeff recapitulated it, this is  
10 a specific example dealing with permanent interstitial  
11 seeds with isotopes and designs that have been in  
12 existence for many years.

13 Your example cites a different modality.

14 DR. HOWE: But I'm citing an example in  
15 which there are cases in which there are sources out  
16 there being used in medical that may not have gone  
17 totally through the FDA process, nor gone through our  
18 sealed source and device registry process.

19 DR. WILLIAMSON: But you see, you don't  
20 need to do this because already it says in Part 35  
21 that the sources that are allowed for specific scope  
22 licensees in 35.400 already are in the SSDR. I think  
23 it's very clear in part 35.

24 So now you're saying, well, you don't  
25 believe that users are capable of following the rules

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1 and that they're going to go off and use non-SSDR  
2 approved sources if you don't check specifically which  
3 ones you order.

4 Now, what is is the basis of performance  
5 based regulation and this nitpicking and  
6 prescriptiveness? You know, the basic philosophy of  
7 Part 35 and the revised licensing applications is to  
8 minimize this and put responsibility on the users and,  
9 you know, audit their performance and see if they're  
10 doing it right and punish them if they're not.

11 CHAIRMAN CERQUEIRA: Exactly. That was  
12 the whole basis for the --

13 DR. WILLIAMSON: So what you should do is  
14 keep the requirement in Part 35 that the maybe model  
15 number be logged as part of the inventory, and then  
16 you have the legal basis for checking their  
17 performance on this.

18 So, you know, why do you have to have  
19 duplicative requirements for the same thing? It's  
20 already spelled out in Part 35?

21 CHAIRMAN CERQUEIRA: One last comment and  
22 we should really vote and move on.

23 MR. LIETO: There were just two points I  
24 wanted to make, if you can take back, and one is that  
25 the motivation for this is to reduce the burden on

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1 licensees in regions to going through a paper shuffle  
2 process because that's all this is, and what happens  
3 is that you will be delayed. It can take up to three  
4 months, you know, to get approvals. Okay?

5 So during that time period you can't use  
6 that source even though it's in a registry and the  
7 fellow across the street is using it in the same type  
8 of a hospital distinctly because the paper work isn't  
9 there. Okay?

10 The other thing is that when you're  
11 inspected during inspection, they don't look at your  
12 model numbers. I've never had an inspection where  
13 they ask you, "What model number is that source?"

14 What they're concerned about is what your  
15 inventory is and what that inventory -- does it  
16 coincide with what your possession limits are and is  
17 it, you know, in accordance with those isotopes?

18 I've never had an inspector come through  
19 and look at, you know, what's the model number on  
20 this. Okay. Show me that the model number in this  
21 device is the one that you're approved for.

22 Because, you know, there's no way to prove  
23 you wrong. You think you could go in the HDR machine  
24 and look at the model? No.

25 (Laughter.)

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1 DR. WILLIAMSON: Okay? You just have to  
2 take that the manufacturer sent you the right thing.  
3 Now, could he send you the wrong thing? Very likely.  
4 Okay. I mean, I shouldn't say very likely. Very  
5 possibly.

6 But who's going to know?

7 DR. NAG: That is an example where I think  
8 NRC is making a laughingstock of itself, and we would  
9 like to give you advice that is very relevant, that is  
10 simple, and yet not impeding on any recent safety or  
11 any health hazard, and you know, because of your  
12 prescriptiveness you are using and hear our  
13 suggestion.

14 And this is the type of interaction where  
15 I think the ACMUI feels very frustrated. You have  
16 given an example, one example.

17 CHAIRMAN CERQUEIRA: Right. I think we've  
18 shot the messenger enough now. So let's -- we have a  
19 motion. We've had discussion. I call for a vote.

20 All those in favor of Jeff's motion to go  
21 to the NRC.

22 (Show of hands.)

23 CHAIRMAN CERQUEIRA: Opposed?

24 (No response.)

25 CHAIRMAN CERQUEIRA: Dr. Howe, thank you

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1 very much.

2 MR. ESSIG: Is it clear what you're going  
3 to come to the NRC and ask us to do?

4 CHAIRMAN CERQUEIRA: To reconsider --  
5 Jeff, do you want to?

6 Well, you should be able to pull the --

7 MR. ESSIG: To undertake a rulemaking to  
8 change this?

9 DR. WILLIAMSON: Yeah, to develop an  
10 alternative rulemaking that addresses this narrow  
11 class of sources and, you know, does not compromise  
12 safety with the other sources that evidently this  
13 group, who's unwilling to share their rationale with  
14 us, is concerned about.

15 MR. LIETO: Well, he didn't say  
16 rulemaking. He said alternative pathway.

17 CHAIRMAN CERQUEIRA: Pathway.

18 MR. LIETO: Rulemaking could be one, but  
19 it also could be just a change in how headquarters  
20 tells the regions to handle licensing.

21 CHAIRMAN CERQUEIRA: Interpretation or  
22 guidance.

23 DR. HOWE: Well, I think in this  
24 particular case you need rulemaking because --

25 DR. WILLIAMSON: But I said alternative

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1 approach.

2 DR. HOWE: -- because a number of years  
3 ago, and Susan is right, a number of years ago OGC  
4 interpreted Part 30 to mean that licensees needed to  
5 provide this information in order to get a license,  
6 and it needed to be updated on amendment process.

7 And so the only way to not provide this  
8 information is to go to rulemaking, and that's a  
9 pretty serious step for the NRC. You might be better  
10 if you can articulate why. This is the rationale the  
11 staff gave, if you look at your --

12 DR. WILLIAMSON: But it's too vague to  
13 make any sense. I mean, the specifics --

14 CHAIRMAN CERQUEIRA: And there's no  
15 discussion.

16 DR. WILLIAMSON: The only specific that's  
17 been brought up is your fear that somehow users are  
18 going to use non-SSDR approved sources who are  
19 specific licensees.

20 MS. CHIDAKEL: I'm sorry. I want to  
21 apologize. I want to make it clear that I have not  
22 been involved in this effort from OGC. So you know,  
23 it's certainly not any reluctance on my part to share  
24 our rationale as far as the Office of Legal Counsel,  
25 you know Office of General Counsel goes.

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1           Again, you know, I have not been involved  
2           in this. So I need to go back to my office, and if  
3           you want answers I'm sure that I can help you get  
4           answers as to what the rationale was. It's not an  
5           unwillingness to share a rationale. It's, frankly, on  
6           my part, like I said, a lack of knowledge because I  
7           have not been involved in --

8           DR. WILLIAMSON: Well, I didn't mean to  
9           suggest you personally were --

10          MS. CHIDAKEL: No, I know that.

11          DR. WILLIAMSON: -- but whoever is  
12          responsible has failed to share the rationale with us.

13          MS. CHIDAKEL: You know, I want to speak  
14          on behalf of the staff, too. I don't think there's  
15          any unwillingness to share any information.

16          CHAIRMAN CERQUEIRA: But I think we need  
17          to move on. I think that the motion was basically to  
18          consider alternative ways. If rulemaking is the only  
19          way to do it, then I would expect during the next  
20          conference call we have with the staff, they would  
21          tell us that it has been brought to the Commissioners'  
22          staffs and it has been discussed and, you know,  
23          rulemaking is the only way to make a change.

24                 And then we can basically give you some  
25          feedback. Thank you very much, Dr. Howe.

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1           The next item is National Materials  
2 Program Pilot Project on operating experience  
3 evaluation, and Michael Markley.

4           Again, both for the presenters and the  
5 people asking questions, we kind of need to keep  
6 focused and moving. So I don't want to cut off  
7 discussion or presentations, but if we're making the  
8 same point over and over again, I will try to cut you  
9 off more than I have.

10           MR. MARKLEY: One thing I'd like to do, I  
11 do have some members of the pilot project here. So I  
12 would like to also have the ones who are remotely  
13 located on the bridge so they can have the benefit of  
14 your wisdom.

15           CHAIRMAN CERQUEIRA: Sure.

16           MR. MARKLEY: If that's okay.

17           (Pause in proceedings.)

18           MR. MARKLEY: Marsha, are you there?  
19 Debbie?

20           MS. GILLEY: This is Debbie.

21           MR. MARKLEY: Hi, Debbie. We're here now  
22 and we're getting ready to start.

23           MS. GILLEY: Great.

24           MR. MARKLEY: We'll get it extended a  
25 little bit of time also.

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1 I apologize for the delay.

2 CHAIRMAN CERQUEIRA: No problem.

3 MR. MARKLEY: Just to mention real  
4 quickly, the members of the pilot team are Cynthia  
5 Taylor from Region II, and she's in the audience here  
6 in the back; Marshal Howard with the State of Ohio;  
7 and Debbie Gilley with the State of Florida. And I  
8 know that we have Debbie on line. I've been unable to  
9 reach Marshal today. So I'm not sure whether she's  
10 here or not.

11 CHAIRMAN CERQUEIRA: Okay, great.

12 MR. MARKLEY: Okay. Now, the reason I'm  
13 here today -- let me see if I can get rid of that.

14 CHAIRMAN CERQUEIRA: Just click somewhere  
15 on the screen.

16 MR. MARKLEY: Okay.

17 CHAIRMAN CERQUEIRA: It should -- click  
18 the other side. Yeah, there you go.

19 MR. MARKLEY: Okay. Thank you very much.

20 The reason I'm here today is really to  
21 seek your wisdom. I'm coming early in the process.  
22 We've developed the charter.

23 CHAIRMAN CERQUEIRA: Right move.

24 (Laughter.)

25 MR. MARKLEY: Well, I've had a little bit

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1 of experience with advisory committees. So I know the  
2 benefits that we can derive from it or hope to, and so  
3 today I want to get your thoughts early as we develop  
4 the work product plan.

5 We hope to come back again in the fall and  
6 tell you where we are in the process, and as we  
7 approach completion next year, tell you some of the  
8 things we found and some of the recommendations and  
9 solicit your agreement, disagreement, and support.

10 CHAIRMAN CERQUEIRA: Just click on the  
11 other button. I think it will advance it.

12 MR. MARKLEY: Okay. It doesn't like it,  
13 Mr. Brown. There we go.

14 Okay. The purpose of the pilot is it  
15 originally started out as an event evaluation, and  
16 because of things that have changed, operating  
17 experiences that have occurred, we've expanded it to  
18 cover really a broader issue other than just event  
19 evaluation and how you would evaluate individual  
20 events.

21 So what we're hoping to do is to, you  
22 know, use common operating experience information from  
23 licensees in trending and in an integrated way. It's  
24 not an evaluation of agreement state performance, but  
25 we're trying to use information and data to make

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1 better decisions in terms of how we allocate resources  
2 and what we use for our decisions in the regulatory  
3 process.

4 We want to develop a structured process  
5 for evaluating that data such that whether the  
6 agreement states or the NRC were using it, if you had  
7 the same inputs, the process being similar, you should  
8 come up with reasonably similar outcomes.

9 So in the process, we're going to take a  
10 test case area, use some criteria that we will have  
11 developed collectively between the team members and  
12 evaluate it and see how we can examine the process and  
13 reengineer the methods and tools of evaluation, and  
14 then from that we would hope to derive other  
15 applications and to use more broadly in the oversight  
16 process.

17 We want to focus on cumulative data. Our  
18 processes may differ right now in some ways, you know,  
19 from state to state and from the NRC in how we treat  
20 some of these, but the attributes and the objectives  
21 of what we're trying to accomplish are pretty much the  
22 same.

23 DR. WILLIAMSON: Can I ask you to define  
24 cumulative data and performance so that we understand  
25 what you're talking about?

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1 MR. MARKLEY: Well, that's what this slide  
2 is about. So what do we mean by operating experience?

3 Domestic and foreign event reports,  
4 inspections; special studies that may have been done  
5 whether by the NRC or by industry; generic reviews,  
6 whether it's an individual event generic review or a  
7 review of a population of events. Industry-wide  
8 analyses, there are lots of different organizations  
9 out there looking at their little cut set of the  
10 industry, and it's not just medical It's the  
11 industrial applications and the whole breadth of the  
12 materials area.

13 And we want to use risk insights and  
14 metrics. There has been some studies done, but we  
15 really I don't think have been very successful so far  
16 in integrating risk insights in how we make decisions.  
17 Let's just say we have an event. How are we using  
18 risk metrics?

19 We developed NUREG 6642, but in terms of  
20 how we get that into the process of making decisions,  
21 whether for inspection follow-up, enforcement and  
22 things like that, those are the kind of things that we  
23 want to look at and see how we can better use risk  
24 information.

25 And to look at possibly developing

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1 performance indicators or thresholds for regulatory  
2 action. There's, you know, certainly no benefit in  
3 spending a lot of time looking at lower tier criteria  
4 even if it is something that may not be a full  
5 compliance. If we need to change a regulation, then  
6 we need to change a regulation.

7 If there's a reason why there are things  
8 happening out there that cause there to be a lot of  
9 amendments or emergency actions on a licensing basis,  
10 those are the kind of things that we would like to be  
11 able to pick up along the way.

12 And so the process that we're really  
13 driving toward is how do we modify our oversight  
14 programs, inspection, licensing, and enforcement.

15 CHAIRMAN CERQUEIRA: Yes, Tom.

16 MR. MARKLEY: Okay. That's where we are.

17 So the scope of activities within the  
18 context of the pilot is evaluating events for generic  
19 implication, possible regulatory action.

20 Consider the processes that we've looked  
21 at in terms of the materials, the issues, and then  
22 adverse licensee performance.

23 As you probably know, one of the things  
24 that has been developed and approved since the  
25 original materials program was the AARM process, the

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1 agency action review meeting.

2 So we want to make sure that what we're  
3 doing dovetails and comports with those types of  
4 pieces of information we're interested in as well, and  
5 so, you know, with our special events and you were  
6 talking about what do you mean by operating experience  
7 or data; special studies provide us with a lot of  
8 insights across a variety of levels, like the St.  
9 Joseph's event or Schlumberger or for the reactors,  
10 Davis-Besse.

11 And so there are crosscutting issues that  
12 affect all of our programs that we want to learn from  
13 and fold into the process.

14 DR. WILLIAMSON: Just a comment. I mean,  
15 you mentioned maybe some nuclear reactor events that  
16 perhaps most of us aren't familiar with.

17 MR. MARKLEY: Right.

18 DR. WILLIAMSON: I personally have very  
19 little grasp of how what you're talking about relates  
20 to our field.

21 MR. MARKLEY: Well, some of the problems  
22 with Davis-Besse, and I'll use that as an example,  
23 there were operating experiences. They had  
24 indications from other licensees where they had  
25 defects that were not taken into consideration fully.

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1 The NRC didn't act fully, whether it was training  
2 issues or inspection issues or materials issues, root  
3 cause analysis.

4 There are things that cross-cut these  
5 types of programs that are really generic to all of  
6 the regulatory processes, not just reactors. And so  
7 if there are things that are out there -- and there is  
8 an entire population of work going on on the reactor's  
9 area in response to Davis-Besse.

10 And along those lines, NMSS has created an  
11 operating experience committee to look at how that  
12 affects each of the NMSS divisions. And I'm chairing  
13 that committee as well as this pilot. So we do have  
14 some continuity in that process. I did the initial  
15 Davis-Besse evaluation as well.

16 So it's not trying to drag reactor issues  
17 here, but there are common threads. Management  
18 expectations of what we would have our inspectors  
19 looking at that were not fully implemented.

20 So the proposed framework, hopefully what  
21 we derive out of all of this is some recommendations  
22 on improving the procedures, how we review things,  
23 evaluation methods, the sources of information that we  
24 would consider, the methods to better communicate.

25 One of the main things that I think is the

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1 near term payback, the agreement states, as well as  
2 the NRC do a lot of things, but we don't necessarily  
3 do a great job at communicating the results of those  
4 studies or evaluations with each other.

5 So in my thinking one of the near term  
6 paybacks is better communicating, and part of that is  
7 with you and key stakeholders, such as yourselves, but  
8 with agreement states.

9 If we have a piece of information or a  
10 study that we've done, it should be fully available,  
11 and the state should be fully aware of all of those  
12 things that we're doing. And, likewise, if they have  
13 issues that we should maybe disseminate more fully  
14 among the non-agreement states, those are the kind of  
15 things we want to do.

16 We want to make the process work. I mean,  
17 that is really in my view -- and, of course, I can't  
18 predict how things will go, but that's the easy win-  
19 win, is improving the communications.

20 The data analysis and the metrics that we  
21 might use are the harder things that will take more  
22 time and will be debated certainly a lot more fully.

23 So at the end point I don't see either the  
24 agreement states or us having a windfall in resources,  
25 and if we don't find ways to do things smarter and

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1 better and reduce burden on ourselves and  
2 theoretically down the road for licensees, as well,  
3 then we will have failed. We have to find ways to  
4 work smarter and use our resources better.

5 Okay. Where we are today. The pilot  
6 charter has been approved. We have the participants.  
7 We may add more over time. It depends on how things  
8 go. But we have a good core to get started, and we're  
9 doing the best we can, you know, in partnering with  
10 the states, trying to keep them involved.

11 Really we can't do this without the  
12 states. It's absolutely essential. One of the key  
13 points that was originally laid out in the materials  
14 program were things that they could pick up and adopt.  
15 It seems to me that it's really more of the things  
16 that we can all do together better.

17 I met with CRCPD in the earlier part of  
18 this month, gave them a similar presentation to what  
19 I'm talking to you about here today: about feedback,  
20 about the extra member, Debbie from Florida, and so it  
21 was beneficial for me in many ways to get the feedback  
22 in the sense of the things that are important to them.  
23 It was absolutely essential with this kind of a pilot.

24 I see down the road as we get some results  
25 and see, you know, the fruit of our labors, if you

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1 want to call it, we will need to have public meetings  
2 and get other stakeholder input, but right now we're  
3 still at that early developmental stage.

4 Okay. As I mentioned before, there's an  
5 operating experience group. Between NRR and Research,  
6 they have a steering committee, a task force, a  
7 working group. They have about 20 people working on  
8 this.

9 At this point in time it's really just  
10 myself and our friends in Region II and in the two  
11 states that we have. So we can't spend the resources  
12 that they're throwing at it, but what we are doing is  
13 because of this working group, we're going to tie in  
14 the state representatives on the meetings that we have  
15 every two weeks. We're going to have, you know, the  
16 reviews of the things that NRR and Research are doing  
17 so that the pilot will be fully up to date with  
18 everything that's going on there, and we want this  
19 thing to be a national materials program, not just an  
20 NRC materials program or an agreement state program.

21 But we do need to be consistent and to  
22 make things comport with what the agency is doing on  
23 a broader basis, and so this particular committee is  
24 not -- we don't have a charter. We do have a mission  
25 statement, but the intent of it is to be decision

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1 driven, not to develop a lot of paper other than the  
2 things we need to support the decisions and  
3 recommendations that would affect the NMSS and  
4 materials type programs.

5 We will still maintain the continuity.  
6 We'll still have single points of contact, which at  
7 this point in time is me, but you know, that's the  
8 intent.

9 We don't need to create a lot of paper  
10 with boundary conditions. We can pull more things in  
11 as we realize things along the way and make changes.

12 The research is evaluating options for how  
13 they can support a more robust materials program,  
14 which is good. Right now they're focusing a little  
15 bit more on the generic safety issue aspects, but for  
16 the most part they're looking for opportunities. So  
17 we're going to see how it will fit. Right now I can't  
18 predict what that will be.

19 And one of the things that we passed out  
20 at the CRCPD meeting -- and these are the same kind of  
21 questions we would hope to get feedback from you on --  
22 are how can we use this information; how can we better  
23 community it between us and the agreement states; how  
24 can the information and tending optimize our programs  
25 and better help us utilize our resources?

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1           We don't have a lot of resources to apply  
2           to these kind of things, and so we really do need to  
3           work smarter.

4           And how can we use risk insights? And  
5           from my view that's really one of the major tools and  
6           opportunities we have to reduce burden, look at the  
7           risks, and see how those lead us to making sounder  
8           decisions, things that are more risk significant and  
9           should have more attention.

10           If something is not very risk significant,  
11           we shouldn't be spending a lot of time on it. There's  
12           no advantage to the NRC or the licensees wasting  
13           resources on things that are not risk significant.

14           CHAIRMAN CERQUEIRA: Excellent. Well,  
15           thank you very much.

16           Have we got some questions? Dick.

17           DR. VETTER: Thanks for coming to us real  
18           early in the process. That's very nice to see what  
19           you're thinking.

20           MR. MARKLEY: Thank you.

21           DR. VETTER: I think this process supports  
22           a learning organization, and I would view the entire  
23           regulatory community working together as an  
24           organization in this endeavor.

25           It also has the opportunity or provides

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1 the opportunity to promote consistency among  
2 regulators, agreement statements, NRC, et cetera, and  
3 I hope there's a possibility of extending that to non-  
4 agreement states.

5 MR. MARKLEY: Certainly.

6 DR. VETTER: I think it also supports a  
7 performance based system. You could use it to help  
8 make the checklist longer, but I think with the NRC's  
9 philosophy in recent years becoming more performance  
10 oriented, I think this actually does that.

11 One thought for you to consider is whether  
12 or not the data that you're collecting to help the  
13 regulators couldn't also be useful for the regulatees.

14 MR. MARKLEY: Absolutely.

15 DR. VETTER: And there might be some  
16 mechanism to share that. So if you see a trend in  
17 something occurring around the country --

18 MR. MARKLEY: Right.

19 DR. VETTER: -- in addition to sending out  
20 -- I mean, you'll do that now occasionally on I forgot  
21 what you call it; a letter that goes to regulators  
22 saying -- regulatees, licensees.

23 MR. MARKLEY: Information notice?

24 DR. VETTER: Information notice.

25 MR. MARKLEY: Right.

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1 DR. VETTER: It might be something that's  
2 more regular.

3 CHAIRMAN CERQUEIRA: Ruth.

4 MS. MCBURNEY: I don't know if it was  
5 brought up at the CRCPD meeting, but I know that some  
6 states -- well, one of the universities in Texas has  
7 taken a lot of our inspection data and done some  
8 trending analyses on how many violations of different  
9 types and the severity levels, and so forth in the  
10 different types of licensees, has taken data from some  
11 other states, too, along those lines.

12 And I think that would probably be  
13 beneficial if you could have them analyze, you know,  
14 NRC's data along those lines and --

15 MR. MARKLEY: Right. We would love to see  
16 what they're doing.

17 MS. MCBURNEY: Yeah.

18 CHAIRMAN CERQUEIRA: I think one other  
19 area, you know, trying to get cooperation between NRC  
20 and the agreement states is with the Part 35 revision.  
21 The training and experience guidelines, I think,  
22 potentially can create a lot of paper work for the  
23 users, as well as for the NRC in the agreement states,  
24 and a compliance was supposed to be, you know,  
25 complete agreement between the two.

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1 But we've been hearing rumblings that some  
2 of the agreement states are a little unhappy with  
3 this, and I think trying to look at the process, the  
4 simplification, that would be very, very useful.

5 For the sake of time, unless anybody has  
6 any burning questions, I think maybe people could talk  
7 to Michael afterwards, but thank you very much for --

8 MR. MARKLEY: Thank you.

9 CHAIRMAN CERQUEIRA: -- including us in  
10 the process, and we'd really like to take part in  
11 whatever way possible that we can.

12 Thank you.

13 The next presentation is the "Content and  
14 Status of the Direct Final Rule to Clarify  
15 Definitions, Notification Requirements, and Record  
16 Keeping Requirements and to Eliminate a Certain  
17 Restrictions." Dr. Tse, welcome.

18 DR. TSE: Thank you, Mr. Chairman and  
19 members of ACMUI and ladies and gentlemen.

20 Mine will be relatively simple compared to  
21 the others you heard prior to me. So I'll be going  
22 relatively quick, and if anybody have any comments,  
23 please just stop me.

24 I'm going to discuss very briefly about  
25 Part 35 direct final rule, which is a clarifying and

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1 one minor amendment.

2 Why do we -- first of all, the status.  
3 Next slide, please. The status. The rule was  
4 published in April 2003, and one month public comment  
5 period, which the direct final, as you know, is we  
6 publish a proposal and a final rule.

7 So the proposed rule public comments would  
8 be -- ends tomorrow. As of today, I have not received  
9 any comments. I checked with the Web site on the  
10 rulemaking Web site. I did not see any comments  
11 either. So I think probably by tomorrow we will not  
12 receive any adverse, significant -- significant,  
13 adverse comments.

14 Therefore, if that's true, the rule would  
15 be effective on July 7th, 2003.

16 Next please.

17 Why do we need a direct final rule?  
18 Because after the publication of Part 35 rule, the  
19 staff has identified certain areas might need  
20 clarification or change, and there are some necessary,  
21 apparently necessary inconsistencies and also  
22 unnecessarily restrictions.

23 Next.

24 What are the changes? The first one is  
25 the apparent inconsistencies. I say "apparent"

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1 because if you read the rule as a whole, it's not  
2 inconsistent because Subpart J was put in, and to  
3 include the Subpart J, you need to look at  
4 implementation section to understand that.

5 But if somebody just looked at the rule by  
6 itself, then they may say in, for example, 290, 390,  
7 only the new items, new T&E are listed without listing  
8 920, 930, et cetera.

9 So to avoid these apparently  
10 inconsistencies, it's better to insert these sections  
11 into various training, T&E, and also 100, 200, 300  
12 because that's the preparation of unsealed sources.

13 So we add those Sections 920, 900, et  
14 cetera, into the appropriate regulations and then said  
15 prior to October 24, 2004, these sections also  
16 applicable.

17 Next one.

18 In some sections, an emergency situation.  
19 The one requirement you say that the licensee should  
20 notify the RSO, and also the AU. The AU may not be  
21 there if a patient may be in an emergency situation or  
22 dies. So we change that to an AU. Therefore, any AU  
23 would do.

24 Next, please.

25 This is truly for clarification. In this

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1 section, Section A says that licensee may perform the  
2 calibration by himself, and then Section B says the  
3 licensee may use somebody else's number like a  
4 manufacturer and so on, but doesn't have a connection  
5 between A and B.

6 So somebody raised the question. So to  
7 make sure, we just add those phrases in there to make  
8 the connection.

9 Next.

10 This one is to eliminate unnecessary  
11 burden or restriction. In the regulation, current  
12 regulation, the training of ophthalmic use of  
13 Strontium 90 can be only done at the medical  
14 institution, and staff believes there is no reason why  
15 the training cannot be done by an authorized user in  
16 a medical private clinic or eye ophthalmic office, and  
17 that's what this change is.

18 The next one is a correction.

19 Anyone have questions? Oh, sorry. Next.

20 The next one is the correction which for  
21 some reason the National Institute of Standards and  
22 Technology become National Institute of Science and  
23 Technology, which in the United States we do not have  
24 such an institution.

25 (Laughter.)

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1 DR. TSE: And I checked with this. Korea  
2 has one.

3 (Laughter.)

4 DR. TSE: But I checked the other place.  
5 Everything is right, except in this section is  
6 incorrect. So we just make a correction.

7 The last one, next, please; the last one  
8 is also for consistency. In the section requiring  
9 calibration, it says that calibration can be done by  
10 the licensee or by manufacturer or by calibration  
11 laboratories.

12 But in the corresponding record keeping  
13 section, it doesn't say that. It just says requires  
14 signature of AMP, and we believe should be consistent  
15 if the action section requires the last individual or  
16 also accepting the manufacturer or other calibration  
17 laboratory's calibration.

18 Then the record keeping shall say those  
19 people, and that's what to make it consistent.

20 Okay. I think I finished. Any questions,  
21 please?

22 CHAIRMAN CERQUEIRA: Rick.

23 DR. VETTER: That was so good. Could you  
24 add a little sentence somewhere that says any source  
25 could be used for interstitial purposes?

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1 (Laughter.)

2 DR. TSE: I think some other staff member  
3 will take care of that.

4 DR. DIAMOND: I myself developed a  
5 designate competency will make you the arbiter of  
6 competency for all AUs.

7 DR. TSE: I'm not sure I qualify for that.

8 CHAIRMAN CERQUEIRA: Well, thank you very  
9 much.

10 DR. TSE: Oh, by the way, I take this  
11 opportunity to also thank the members of the  
12 subcommittee and committee when I was working on this  
13 paper. I really appreciate your help.

14 Thank you.

15 CHAIRMAN CERQUEIRA: Excellent. Thank you  
16 very much.

17 The next presentation is "HHS Database of  
18 Regulatory Actions: Status and Discussion." Linda  
19 Psyk.

20 MS. PSYK: Okay. Are we on? It's hard  
21 for me to hear up here. Can you hear me back there?

22 Thank you. I like the nods of the head.  
23 Thanks.

24 Okay. Good afternoon. Are we all still  
25 awake?

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1                   Okay. My name is Linda Psyk. I'm from  
2                   the Division of Industrial and Medical Nuclear Safety.

3                   We're going to switch topics a little bit.  
4                   I'm going to briefly cover the health care integrity  
5                   and protection database.

6                   What I'm going to discuss shortly today is  
7                   the purpose of the health care integrity and  
8                   protection database. From here on in I'm going to  
9                   refer to it as "database" so that we all know what I'm  
10                  talking about.

11                  I'm going to describe a little bit about  
12                  what the NRC will report and how we will report this  
13                  information.

14                  I'm going to give the status of our  
15                  management directive. The management directive is  
16                  actually our procedure that NRC will use in order to  
17                  identify what needs to be reported and how we will  
18                  report it.

19                  I'm also going to provide some examples of  
20                  some past actions that we will be reporting to the  
21                  database.

22                  And finally, I'm going to discuss the  
23                  responsibility of the agreement states in reporting.

24                  I didn't realize it was set up to do this  
25                  individually. Excuse me.

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1           Okay. What is the HIPDB or database? The  
2           Health Insurance Portability and Accountability Act of  
3           1996, this is referred to as HIPAA. I'm sure we all  
4           know what HIPAA is at this point.

5           Basically HIPAA was promulgated due to the  
6           burden of health care fraud in the United States.  
7           HIPAA required the Department of Health and Human  
8           Services to create a national fraud and abuse control  
9           program.

10          In response to this, the HIPDB, or  
11          database, was established to compile certain final  
12          adverse actions, which were taken against health care  
13          practitioners, providers, and suppliers.

14          It's important to know that the contents  
15          of the database are going to be confidential. Access  
16          will not be allowed to the general public.

17          Entities reported to the database will be  
18          notified. So if an individual or an entity is  
19          reported, they will be notified by the HHS that they  
20          were reported to the database, and they will be able  
21          to access that information.

22          Information will also be available to the  
23          state and federal agencies, health plans, health care  
24          practitioners, providers, and suppliers, as I said,  
25          requesting information concerning themselves.

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1           The database requirement is codified in 45  
2       CFR Part 61. It requires reporting from state and  
3       federal government agencies who license or certify  
4       health care practitioners, providers, or suppliers.

5           Also, it requires that health plans, such  
6       as insurance or programs that provide health benefits,  
7       that these organizations also report to the database.

8           What is the NRC going to report?  
9       Basically there are three criteria that determine  
10      whether or not that action will be reported.

11          The first one is it must be a final  
12      negative action or finding.

13          The second criteria is that the actions  
14      are made publicly available.

15          The third one and the most important one  
16      is that the adverse action must directly affect health  
17      care. That's very important, either medical practice  
18      or health care. That's the big criteria that we have  
19      to -- I'm sorry. I'll just read the next.

20          An example, let me give you two examples,  
21      brief examples of what NRC would report. The first  
22      one would be the revocation or suspension of a  
23      license. That type of adverse action will be reported  
24      to the database.

25          The second example, and I'm going to give

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1 some very specific examples at the end of my talk.  
2 Second example would be actions that limit the scope  
3 of practice. This would include individuals that are  
4 banned from NRC licensed activities.

5 The type of licensees and employees who  
6 may be reported to the database include the following  
7 who work under NRC license. And they can include lots  
8 of different people: the physicians, the AMPs, the  
9 health physicists, or as you can see the list,  
10 clinics, hospitals, radiopharmacies. Any one of these  
11 individuals or entities that we feel meet the criteria  
12 for adverse action would actually be reported.

13 How are we going to report this  
14 information? Management Directive 8.6 has been  
15 drafted. Basically, the management directive gives  
16 the policy and direction to our staff on how we will  
17 identify who's reported, how it will be reported, and  
18 so on. And this will be done by different individuals  
19 in the agency.

20 For example, the regional staff will  
21 identify whether or not something needs to be  
22 reported. They will follow up with the licensee to  
23 receive the information that they need to report to  
24 the database.

25 That information is forwarded to the

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1 Office of Enforcement. The Office of Enforcement  
2 actually inputs the data into the database.

3 What's the status of this management  
4 directive? At the last ACMUI meeting, this topic was  
5 brought up for the first time. And members of this  
6 committee were concerned that we were doing something  
7 that we hadn't actually informed you about.

8 So a memo went out in January of this year  
9 describing the actions that we were going to take, why  
10 we were going to take it. We gave you the rule  
11 involved, and a draft of the management directive.  
12 And also some examples of past adverse actions that we  
13 will be reporting to the database.

14 Currently, the NRC offices and regions are  
15 reviewing for final comment. Those final comments are  
16 due back to me by the end of this month. Hopefully I  
17 am going to be finished with this by August of this  
18 year. So the management directive should be complete,  
19 and the regional staff will start identifying actions  
20 that need to be reported.

21 Okay, I'm going to briefly review some  
22 examples of past actions that require reporting. The  
23 first one is -- actually these two are individuals.  
24 The first one is Perry Beale.

25 Perry Beale was a health physics

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1 consultant who was consulting to hospitals in Virginia  
2 and West Virginia. He falsified documents for the  
3 licensees that he was working for. We prohibit him  
4 from working under any NRC license, or being involved  
5 with any NRC licensed activities because of his  
6 actions.

7 The second individual is Dr. Jose  
8 Fernandez. He was a physician who had over 100  
9 medical events due to an incorrectly calibrated  
10 Strontium-90 device. He also failed to have a QMP and  
11 an authorized user on site. His license was modified  
12 to exclude the use of that Strontium-90 for ophthalmic  
13 treatments.

14 Okay, I have two more examples. These are  
15 examples of different facilities that will be  
16 reported. The first one is the Advanced Medical  
17 Imaging and Nuclear Services.

18 Their license -- they were operating their  
19 license without an authorized user or radiation safety  
20 officer. Their license was suspended for a certain  
21 period of time. This type of action would be reported  
22 to the database.

23 Second example is the Fairbanks Memorial  
24 Hospital. They were issued a notice of violation with  
25 an accompanied civil penalty. The licensee failed to

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1 obtain the signature of the authorized user on a  
2 written directive prior to administration of a dosage  
3 of I-131 greater than 30 microcuries.

4           You may question why is this reportable.  
5 The reason this is reportable is because this could  
6 directly affect health care. If this was not signed  
7 by an authorized user, how do we know that the  
8 individual administering that iodine is doing it  
9 according to the written directive over that  
10 authorized user. This could potentially directly  
11 affect health care.

12           And I'll answer your question after I'm  
13 finished. Thank you.

14           DR. DIAMOND: I'd actually like to ask for  
15 it now.

16           (Laughter.)

17           DR. DIAMOND: I just want to be very clear  
18 -- So I'm getting ready to go and give 100 millicurie  
19 to my thyroid cancer patient up on the floor.

20           MS. PSYK: No, no, wait a minute. First  
21 of all, we have to go through the first criteria. The  
22 first criteria, one of the criteria, they received an  
23 NOV with a civil penalty. They actually received a  
24 notice of violation accompanied by a civil penalty.

25           Start from there. Now we look on. Why

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1 did they receive that notice of violation? They  
2 received it because they didn't have an AU sign that  
3 written directive.

4 In your instance, if something happened  
5 like that in your case, you may not receive a notice  
6 of violation accompanied with a civil penalty. That  
7 criteria comes first.

8 Do you see what I mean?

9 DR. DIAMOND: I'm just asking a very  
10 simple question.

11 MS. PSYK: Okay.

12 DR. DIAMOND: The typical patient I'll do  
13 a couple times a week. I admit to the hospital. We  
14 have them up there with the physicist. We went  
15 through everything with the patient. Room's done.

16 What would happen if that patient of mine,  
17 let's say a young lady, took that oral capsule of 100  
18 millicurie of sodium I-131 three seconds before I went  
19 and signed the written directive?

20 MS. PSYK: Well, first of all, you  
21 wouldn't get a notice of violation for that.  
22 Remember, that's what I said, the first criteria. The  
23 first criteria -- this facility got a notice of  
24 violation with a civil penalty.

25 In fact, if they received a notice of

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1 violation without a civil penalty, they wouldn't even  
2 be included in our database. They wouldn't even be  
3 something we looked at.

4 DR. DIAMOND: So this is something where  
5 there was a systematic issue?

6 MS. PSYK: That's right. I'm sure there  
7 was more of an issue than what I'm just describing  
8 here. And that's why --

9 DR. DIAMOND: The reason I'm getting your  
10 attention is because --

11 MS. PSYK: -- they got a civil penalty on  
12 top of their notice of violation.

13 DR. DIAMOND: The reason I bring it to  
14 your attention is because if you learn about HPOMER  
15 \*\*, generally you'll recognize that physicians  
16 nationwide are furious with some of its provisions.

17 And I think we're becoming justifiably  
18 paranoid in some circumstances as to some of the  
19 penalties that we may be facing for inconsequential  
20 activities.

21 MS. PSYK: Well, in reality, this is not  
22 a penalty. What I'm talking about here is we're  
23 talking about what we'd be reporting to the database.  
24 That's not an actual penalty.

25 DR. DIAMOND: Aha. But you see, the way

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1 the world works --

2 MS. PSYK: No one sees that information,  
3 except for --

4 DR. DIAMOND: -- this world. You live in  
5 a different world, because the fact remains that this  
6 information can get out. This information can be used  
7 against you in a court of law. I'm just trying to --  
8 we're getting a little off tangent, but I'm just  
9 saying this can be very, very deleterious to a  
10 person's career.

11 MS. PSYK: Okay. Well, that's duly noted,  
12 although we will be going forth with this, because it  
13 is the law.

14 DR. WILLIAMSON: To follow up with this,  
15 if for example the AU's intent was to deliver this,  
16 and that one prescription maybe out of 100 the  
17 individual forgot to sign it, or perhaps it was done  
18 on an emergent basis and the person failed to sign it  
19 24 hours later.

20 I mean, I would expect that this is not  
21 unusual, that there may be a one percent rate of  
22 essentially paperwork failures that do not represent  
23 a -- do not indicate a substantial problem with the  
24 program. May be even self-correcting.

25 So you're going to put somebody in this

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1 database for that? That's what it sounds like you're  
2 saying. This does not seem reasonable.

3 MS. PSYK: No, actually -- and actually  
4 Sally Merchant's here from the Office of Enforcement.  
5 She may have a few more words she wants to say about  
6 that.

7 MS. MERCHANT: Well, I would like to make  
8 one comment, and that's that this was not something we  
9 wanted to do. This was something that was brought to  
10 our attention from outside the agency, asking us how  
11 are you complying with this requirement.

12 We've had to put a lot of resources in it.  
13 We were -- It was not something we wanted to do. It's  
14 something that we're being required to do. We kind of  
15 have many of the same feelings as you do, but we don't  
16 have an option.

17 DR. NAG: I think you do have an option.  
18 One of the things you said was if it impaired or  
19 affected any patient's safety. Now, there's two  
20 things that can happen, giving an example.

21 One thing is that a level or what you  
22 sign, but the level that was given was 100 millicurie  
23 or whatever, 100 millicurie of I-131, and it was  
24 given. And the pressure of time and so on, it wasn't  
25 signed.

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1           Now, that does not affect the safety of  
2           the patient, although legally because it wasn't signed  
3           on the paper. And when you do an audit of 1,000  
4           injections, you are going to have one or two of those.  
5           And that does not affect patient safety.

6           Now, you said that you are only going to  
7           report important things that have penalty and that  
8           affected patient safety. So something like that  
9           doesn't affect patient safety.

10           On the other hand, if that injection was  
11           given, no one gave the orders, and obviously no one  
12           signed those orders, then it affected patient safety,  
13           and that should be reported.

14           So I think you have to make that  
15           distinction between those two, although both on paper  
16           looks the same.

17           MS. PSYK: But you have to realize that in  
18           the first example you gave, they would not receive a  
19           notice of violation. They wouldn't even be on our  
20           radar. That type of situation we wouldn't have even  
21           considered to look at.

22           MS. MERCHANT: Additionally, look at the  
23           data on that. The EA-96, which means that's 1996.  
24           That was in a period of time before we went with the  
25           new rule-making; before we went with the more

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1 performance-based philosophy.

2 Hopefully if a case came to the Office of  
3 Enforcement where there was no deliberate attempt to  
4 do anything wrong we would certainly consider that.  
5 As I said, look at it in the context.

6 The one above I'd like to comment on. And  
7 in this particular case, this particular service set  
8 up business, negotiated with an authorized user.  
9 Never quote, "hired him or contracted him," and  
10 proceeded to do more than 500 patients, with no  
11 authorized user at all. They had lied about the one  
12 they were putting on the license.

13 Same thing with the authorized user. And  
14 I think any of you would find a problem with that.

15 DR. NAG: I don't think any of us have a  
16 problem with that. The problem we have is where  
17 there's some paperwork missing, and that was a  
18 penalty.

19 MS. PSYK: That will not even come up on  
20 our radar. That won't even --

21 CHAIRMAN CERQUEIRA: To rephrase --  
22 Gentlemen, we need to go on.

23 MS. PSYK: Yes, thank you. Okay.

24 CHAIRMAN CERQUEIRA: I'm not sure what  
25 additional discussion on this will do, okay?

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1 MS. PSYK: Okay. Agreement state  
2 reporting. Agreement states were also required to  
3 report adverse actions to the database. I was going  
4 to actually ask Ruth, do you know if the State of  
5 Texas has begun reporting?

6 MS. MCBURNEY: I was going to ask you is  
7 that through State and Tribal Programs, or through --  
8 directly through Enforcement?

9 MS. PSYK: Actually, it's the -- You mean  
10 who's going to be initiating it?

11 MS. MCBURNEY: Who will report to?

12 MS. PSYK: It actually has to be every  
13 government agency. So in other words, the NRC is a  
14 government agency. Texas is a separate entity. They  
15 will have to do their own reporting to the database.

16 MS. MCBURNEY: Directly to --

17 MS. PSYK: Directly to the database. And  
18 what the NRC will do is once the management directive  
19 is finalized, we will send an all agreement state  
20 letter just to remind agreement states that they are  
21 required to do this.

22 This came up as something several years  
23 ago that we didn't even realize was out there. I  
24 mean, this was published in 1996, and we didn't even  
25 realize that this was a requirement.

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1 MR. LIETO: Maybe I'm missing some dates  
2 here or something like that, but by what I've  
3 understood here, you're going to report any actions  
4 that you have taken since 1996?

5 MS. PSYK: Yes, that is correct. And I'm  
6 sorry I didn't cover that. The rule became effective  
7 in 1996, and I forget the exact date, which means that  
8 we must go back and look at all of our enforcement  
9 actions, and all of our adverse actions that occurred,  
10 back to that date, and report back from that date.

11 So in other words, if something happened,  
12 like I gave an example that happened in 1997, we will  
13 have to report that.

14 MR. LIETO: Because I thought it didn't  
15 become effective initially until like 1999 or  
16 thereafter.

17 MS. PSYK: No, 1996.

18 DR. DIAMOND: It's a different provision.  
19 It's come into place at different points. So for  
20 example, some of the provisions relative to physicians  
21 and hospitals have come into effect only within the  
22 last several months.

23 There are other provisions I would gather  
24 that were antecedent to that.

25 MS. PSYK: Right. Okay. In summary, I

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1       talked a little bit about the adverse actions that we  
2       will report. I talked a little bit about the status  
3       of our management directive and how we're going to use  
4       that. And also that agreement states are required to  
5       report on their own, because they are considered a  
6       government agency that issues their own licenses.

7               Are there any other comments?

8               DR. NAG: Now, most of these violations,  
9       if not all, would have been reported on your NRC  
10      newsletter or whatever anyway, right?

11              MS. PSYK: That's right. In fact, that's  
12      a very good point.

13              DR. NAG: It is something that you  
14      wouldn't get otherwise?

15              MS. PSYK: That's a very good point,  
16      because in fact, all the examples that I provided, all  
17      of those are available because they were enforcement  
18      actions and are available on our NRC website.

19              So it's not like other individuals in the  
20      public couldn't see that information.

21              CHAIRMAN CERQUEIRA: Thank you very much.

22              MS. PSYK: Thank you.

23              CHAIRMAN CERQUEIRA: Excellent job. The  
24      next discussion is going to be, "Written Directives  
25      for Brachytherapy not Associated with Permanent

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1       Implants."   And Dr. Zelac.

2                   DR. ZELAC:     Mr. Chairman, committee  
3 members.

4                   DR. NAG:   Dr. Zelac, can you move to the  
5 side?

6                   CHAIRMAN CERQUEIRA:   Use the next place.  
7 Push Tom out of the way there.

8                   (Laughter.)

9                   DR. ZELAC:   You'll see me several times  
10 today and tomorrow. Initially I was asked to make a  
11 presentation on that aspect of involvement with the  
12 medical rule implementation that i've really been  
13 working on.

14                   However, I was then asked to give a couple  
15 of presentations, and this is one of them, on other  
16 aspects relating to, I believe, issues or questions  
17 that have been raised by the advisory committee in the  
18 past.

19                   In this particular case, apparently there  
20 was concern ont the part of someone that the  
21 particular written directive requirements that appear  
22 in the rule relating to brachytherapy, other than high  
23 dose rate brachytherapy, were not appropriate, and  
24 that they only applied, and were really applicable  
25 only for permanent implants, and not for temporary

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1 implants or other types of brachytherapy.

2 So the question is are these written  
3 directive requirements appropriate. The specific rule  
4 section involved, and this again is the revised rule  
5 that we're working with, the current rule, 10 CFR  
6 35.40(b)(6), which covers the written directive  
7 requirements for all brachytherapy except HTR which  
8 has its own section, (b)(5).

9 The specific requirements that appear in  
10 that section of the rule are that the authorized user  
11 has to stay in the written directive before  
12 implantation, what the treatment site is, what  
13 radionuclide's going to be used as part of the  
14 treatment, and what the intended dose is as part of  
15 that treatment.

16 After implantation, but before completion  
17 of the procedure, the authorized user on the written  
18 directive needs to verify the treatment site, verify  
19 the radionuclide, and now provide in the written  
20 directive the number of sources that were utilized,  
21 the total source strength and exposure time, or  
22 alternatively the total dose.

23 Now what are the changes in this  
24 particular revised rule section that make it different  
25 from what appeared previously? Now the number of

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1 sources is entered after implantation rather than  
2 before implantation.

3 Secondly, individual source strengths are  
4 no longer required. And finally, the treatment site  
5 and the dose need to be entered into the written  
6 directive prior to implantation besides being verified  
7 afterwards.

8 The basis for these changes: discussion  
9 with the advisory committee on comments received on  
10 the proposed rule. This specifically had to do with  
11 the entry of the number of sources post-implantation,  
12 and no need for individual source strengths.

13 And secondly, the consistency with  
14 requirements for other sealed source therapies, where  
15 the treatment site and the intended dose are  
16 identified prior to the procedure.

17 Now, I think it's important to note that  
18 so far, the requirements have not introduced anything  
19 which I personally, nor in consultation with others,  
20 have found to be inappropriate.

21 For example, for temporary implants,  
22 afterloaders, manual afterloaders, iridium seeds, in  
23 ribbons removed, temporary implants, you still need to  
24 identify the number of sources, you still need to  
25 identify what nuclide it was, and you still need to

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1 identify the total dose that was intended for  
2 delivery.

3 DR. NAG: I have a question about that.

4 DR. ZELAC: Yes.

5 DR. NAG: I think that on your slide on --  
6 before implantation, the treatment site, radionuclide  
7 and dose. Why when that was there before was  
8 treatment site, radionuclide and I think it was  
9 activity. And that was more appropriate for a  
10 removable implant, but inappropriate for the permanent  
11 implant.

12 So to rectify that, they put in dose which  
13 is now more appropriate for the permanent implant, but  
14 may not always be appropriate for the removable  
15 implant.

16 And the reason for that is once in a  
17 removable implant, in a temporary removable implant,  
18 you may want to put in the sources, and then do your  
19 calculation and see how much of the isodose you start  
20 with.

21 And you may want to change your dose  
22 depending on the volume. In the removable implant,  
23 many times what you can do is put the number of  
24 sources you want and then calculate, find out what  
25 volume you're getting.

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1           And the volume and dose are inter-related.  
2           So depending on the volume you have, you may want to  
3           either take down or increase the dose. So in a way,  
4           if you are having only the word "dose" there, it may  
5           tie the hands down for the removable implant.

6           DR. ZELAC: Well, the comment that I would  
7           make is that the written directive is the intended  
8           treatment plan, if you will.

9           DR. NAG: Right, but --

10          DR. ZELAC: That certainly doesn't  
11          preclude modification later of the written directive  
12          based on the findings associated with the treatment  
13          itself.

14          DR. NAG: But say you tried to correct one  
15          with dose that the previous directive was not really  
16          suitable for the permanent implant, and you made it  
17          now not totally suitable for the removable implant.

18          You can very easily correct that by saying  
19          dose or activity. Or, you can have a separate way of  
20          writing the directive for a removable implant, and a  
21          separate directive for a permanent implant. Because  
22          the two, although they are both brachytherapy, have a  
23          different method of how you do it, and how you plan  
24          it.

25          DR. ZELAC: You've indicated that there

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1 would be a better way of stating the requirement. Do  
2 you find that the way that is existing in the rule now  
3 would, in fact, represent a problem?

4 DR. NAG: Are you saying the old 35 or the  
5 35 now?

6 DR. ZELAC: No, I'm talking about the rule  
7 that we're living with right now.

8 DR. NAG: The new one.

9 DR. ZELAC: Right. That's really what  
10 we're commenting on.

11 DR. NAG: Yes, it would. If in the  
12 removable implant, if you are having total dose, and  
13 you are saying that, well, I want to give 3500, but  
14 the way the sources are placed, if you give 3500  
15 you're going to overdose that area. Then if it's a  
16 different volume, you say no, my intended dose is now  
17 going to be 2500.

18 DR. DIAMOND: But Subir, you could modify  
19 your written directive based on plan.

20 DR. WILLIAMSON: Yes, you can modify your  
21 written directive. I mean, I think I agree with both  
22 of you. I do believe that the way the current revised  
23 Part 35 that we're now living with is written, I don't  
24 think it precludes the radiation oncologist from  
25 changing the prescription.

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1           It's necessary to have a two-part  
2 prescription, because treatment planning is not always  
3 completed by the time the sources are loaded. So  
4 that's important that that be there.

5           On the other hand, I tend to agree with  
6 Subir that in the old Part 35, the way the two-part  
7 prescription was written it was actually more useful  
8 for temporary implantation because it essentially was  
9 more consistent with a set of instructions or  
10 guidelines. How the patient was to be loaded, what  
11 sources, what activity.

12           That's what you know at the time. You  
13 don't know what the total dose is going to be or the  
14 total time. So from a safety perspective, there  
15 probably was a little more added value to the old  
16 regulation compared to this.

17           But I don't think this is a major problem.  
18 It doesn't hinder us from doing anything.

19           DR. ZELAC: Well, obviously the problem it  
20 was intended to correct was having to specify in  
21 advance of implantation the number of seeds that were  
22 going to be utilized. And you know, that makes --

23           DR. WILLIAMSON: Right. You're trying to  
24 make it work for both permanent seed implantation and  
25 temporary implantation.

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1 CHAIRMAN CERQUEIRA: So it sounds like  
2 it's accomplished the purpose.

3 DR. ZELAC: Mr. Chairman, we have someone  
4 from the audience.

5 MR. FORREST: Rob Forrest. I'm the  
6 radiation safety officer at the University of  
7 Pennsylvania.

8 Two comments on that. If some of the new  
9 modalities in 35-1000 fall into this category, it does  
10 present some problems, because SIRSpheres, for  
11 example, is considered brachytherapy. And it would be  
12 very difficult with up to 80 million spheres to  
13 determine the number that was administered. So that  
14 presents a problem with this regulation as written.

15 In addition to that, I heard several times  
16 that an authorized user can revise the written  
17 directive. But part C of that says a written revision  
18 to an existing written directive may be made if the  
19 revision is dated and signed by an authorized user  
20 before administration.

21 So the way the rule is written right now,  
22 you can't change it right in the middle.

23 DR. NAG: After completion, not before  
24 completion.

25 DR. ZELAC: The other thing is, the

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1 comment is that the sections in the part of the rule  
2 that I'm discussing now apply to specific modalities  
3 which are covered in the base portions of the  
4 regulations, and do not apply to any requirements  
5 relating to 35-1000 utilizations, which will be  
6 covered by microspheres.

7 And it has its own specific requirements  
8 for just about everything. When they can fit and  
9 match with existing requirements in other sections,  
10 that's done. When they don't, then they certainly  
11 don't apply, and that would be the case here in terms  
12 of specifying the number of sources.

13 CHAIRMAN CERQUEIRA: So that clarifies it.  
14 One last comment from Jeff.

15 DR. WILLIAMSON: Yes, I think I just read  
16 the part C here that the member of the general public.  
17 I think, depending upon how you interpret this, it's  
18 okay.

19 It says before the administration of the  
20 dosage of unsealed by-product material, the  
21 brachytherapy dose. So that phrase to me implies you  
22 can revise it up to and including the point where the  
23 original dose is delivered. But if it goes beyond,  
24 then you can't.

25 DR. NAG: Therefore, if it's in a

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1 permanent implant, the implant is never finished, so  
2 you can do it up to 100 years.

3 DR. WILLIAMSON: That has never been  
4 clear, and I think that's where --

5 DR. ZELAC: Well, that is currently under  
6 consideration by our Office of General Counsel: when  
7 does the procedure end. I will not specify, because  
8 it's still pre-decisional, what their determination of  
9 that was. They haven't completed it yet, but there  
10 will be a stated endpoint for such procedures.

11 DR. NAG: The other question that brings  
12 up is, you know, if you're taking a removable implant,  
13 I am prescribing just 3,000, okay? But, because of  
14 the way the sources are kept, it can go up to 4,000 or  
15 5,000.

16 So now I am doing my calibration after the  
17 original prescription of 3,000 is done, but before my  
18 new intended, which is 5,000. So what does that mean?

19 DR. ZELAC: Well, there are two -- First  
20 of all, keep in mind that the information that's asked  
21 for prior to the implantation is quite general. What  
22 organ are you treating? I'm treating the prostate.  
23 You don't have to say the extent of it, whatever. I'm  
24 treating the prostate.

25 What is your approximate intended dose to

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1 be delivered? If you give a number, there's nothing  
2 to preclude you from giving a range as opposed to a  
3 specific number. And as long as you are within that  
4 range, you should be satisfactory.

5 Yes. The answer to the question is  
6 excellent. Yes, Part 35 written directive  
7 requirements appear to be appropriate for  
8 brachytherapy that involves temporary implants, and  
9 are not specifically written to only apply to  
10 permanent implants.

11 CHAIRMAN CERQUEIRA: Thank you very much  
12 Ron, excellent. All right, the next presentation is  
13 on "Downloading Part 35 from the NRC Webpage."

14 MR. ESSIG: This will be very, very quick.

15 CHAIRMAN CERQUEIRA: Excellent.

16 MR. ESSIG: Shorter than the others by a  
17 long shot. You have a hand-out, and I think members  
18 of the public have it as well. It's titled "Saving  
19 Part 35 to Disk from NRC's Website."

20 You can read that at your leisure. Any  
21 credit can go to Roger Broseus for articulating this.  
22 He's one of our resident computer gurus. And we tried  
23 it, and it works. It's referenced to Netscape,  
24 because that's the browser we use. But it should work  
25 on other browsers as well.

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1           So this answers the question, hopefully.  
2       There were concerns a member brought up the last time  
3       about the way the website instructions, you can only  
4       download a piece at a time. This allows you to  
5       download the entire. Not only Part 35, but any part  
6       of the regulations you want to.

7           CHAIRMAN CERQUEIRA: Fabulous. So our  
8       last presentation is going to be "Society of Nuclear  
9       Medicine's Suggested Guidance for Therapy  
10      Applications." And Dr. Jeffrey Siegel, Society of  
11      Nuclear Medicine, will be making his way to the  
12      podium.

13          DR. SIEGEL: I'd like to thank the  
14      chairman, members of the ACMUI, the NRC staff, for  
15      allowing me to take up your very valuable time today.  
16      I know it's been a full schedule. We're all a little  
17      bit tired, so I'm going to be really brief.

18          As Tom Essig said, when we developed the  
19      diagnostic, as you know, Part 35, divides by-product  
20      material, or BM, as I like to say, into seven types of  
21      medical use.

22          So therefore, out of necessity, Part 35  
23      contains requirements for a diagnostic as well as  
24      therapeutic medicine. So in meeting with Chairman  
25      MEserve on December 19, 2001, it was agreed upon that

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1 there was a need to publish a separate, stand-alone  
2 guidance document for diagnostic nuclear medicine  
3 applications to simplify all the paperwork involved.

4 SNM/ACNP subsequently proposed to publish  
5 a stand-alone guide for therapeutic nuclear medicine.  
6 The term, of course, "diagnostic nuclear medicine"  
7 does not appear anywhere in the regulations, but it's  
8 understood to pertain to 35-100 and -200 material.

9 And therapeutic nuclear medicine is  
10 understood to pertain to 35-300 material. And as you  
11 know, the NRC does classify material as to written  
12 directive or non, and physical form sealed or unsealed  
13 source.

14 We know that the applicable parts of the  
15 regulations you've been debating over T&E can't be  
16 viewed in isolation because there are license  
17 conditions and, of course, regulatory guides. NUREG-  
18 1556, Volume 9, is the licensing guidance for the  
19 revised 35.

20 We know that licensees must have written  
21 procedures. And that's stipulated in Part 20. But  
22 these policies in implementing procedures are not  
23 published in the regulations. They exist only in  
24 guidance base, which means from a regulatory point of  
25 view, they don't exist, unless the licensee commits

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1       them to use, and therefore it becomes a license  
2       condition.       Otherwise, they are non-existent.  
3       Guidance is guidance. It's not mandatory.

4               Generally, nuclear medicine licensees have  
5       used NRC guidance. And this is the reason that we  
6       decided to publish a guide as an alternative. We  
7       worked collaboratively, as Tom said, with the NRC, and  
8       we're very happy that the statement was made. I'm not  
9       going to read it again.

10              It includes all the applicable NRC  
11       regulations. Not just Part 35, but Parts 19, Parts  
12       20, 30, all other applicable parts to diagnostic  
13       nuclear medicine.

14              As we'll see tomorrow, the number of  
15       misadministrations and medical events that have  
16       occurred over the last four years as a result of  
17       diagnostic nuclear medicine was two in 2000, zero in  
18       2001, zero in 2002, and one in 2003. So not many  
19       medical events or misadministrations.

20              It was designed to make it much easier for  
21       all involved in diagnostic nuclear medicine to be  
22       familiar with the regs. It's only 73 pages. It  
23       contains step-by-step instructions. And again, this  
24       includes everything distilled from Part 35, Part 19,  
25       Part 20, Part 30.

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1 Additional guidance is necessary of  
2 therapeutic nuclear medicine, and that's why we sent  
3 to each member of ACMUI a copy of the companion guide  
4 for therapeutic nuclear medicine. And you each should  
5 have a copy of that. It's divided into six parts  
6 which I'm not going to go into. Let's all turn to  
7 page 36. I'm only kidding.

8 We thoroughly appreciate the review of the  
9 ACMUI, and any comments you may have. And ultimately  
10 we would look for ACMUI endorsement of this document  
11 to the commission. And I thank you very much for your  
12 attention.

13 CHAIRMAN CERQUEIRA: Thanks, Jeff. One  
14 question that I have, which I sort of asked related to  
15 the diagnostic, is people use this to make decisions  
16 about how they set up their practices.

17 And I'm worried about liability in the  
18 sense there's -- you know, when the NRC puts out a  
19 guidance document, the government is behind it. Now  
20 when the SNM puts out a document, who's liable.

21 And what if a physician acts in accordance  
22 with these guidelines that you've put out, and then is  
23 found to have significant violations, loses his  
24 license or something.

25 Do they have any -- you know. Is the SNM

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1       liable in any way?

2                   DR. SIEGEL:     Well, we have the SNM's  
3       attorney here, sitting in the background. But again,  
4       these guides were written as minimal guides. They  
5       were not meant to be the things you could do to the  
6       nth degree.

7                   CHAIRMAN CERQUEIRA:   I mean, the regs  
8       ultimately are what determines what's appropriate.

9                   DR. SIEGEL:   That's absolutely right. And  
10      there's more than one way to skin a cat, as you know.

11                  CHAIRMAN CERQUEIRA:   Right.

12                  DR. SIEGEL:     And one could take the  
13      guidance in 1556, Volume 9. Or one of the guides that  
14      we've proposed, the diagnostic or the therapeutic  
15      guide. And the question that you ask is an important  
16      one, and I'm glad we do have the SNM attorney here.

17                  But I think that the important thing here  
18      is that in a risk-informed performance-based situation  
19      that we're in. And when inspectors come in, I don't  
20      know what they're going to be comfortable with.

21                  So if they're not comfortable with the SNM  
22      guide, but they're familiar with NUREG-1556, and they  
23      see violations that don't amount to safety problems,  
24      that's one issue.

25                  But let's say they see violations that

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1 amount to medical events or misadministrations, which  
2 is the question, and the only important question, in  
3 my opinion, that you're asking. Is it because of  
4 their policies and implementing procedures?

5 And I can't see that as a problem, except  
6 that they're not following any policy or procedure  
7 whatsoever. Like they were talking about before, a  
8 facility operating without an authorized user and a  
9 radiation safety officer.

10 I would suggest that knowledge is almost  
11 irrelevant and unimportant, because who would consider  
12 doing that? Obviously, there are people out there  
13 that are doing that. But if you have no policies and  
14 implementing procedures at all, you're likely to  
15 experience misadministrations and medical events.

16 But if you have minimal standards in place  
17 which you're following, and not even to the letter.  
18 Given from the NRC's presentation tomorrow, there are  
19 essentially no medical events or misadministrations to  
20 speak of in this century.

21 CHAIRMAN CERQUEIRA: Okay, well that will  
22 be an interesting presentation.

23 DR. SIEGEL: But I'd like for you to speak  
24 on this, Bill.

25 MR. UFFELMAN: As I recall in the

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1 beginning of the guidance there's a paragraph that  
2 specifically --

3 MR. ESSIG: Name please?

4 MR. UFFELMAN: Bill Uffelman, Society of  
5 Nuclear Medicine. I'm general counsel and director of  
6 public affairs. U-F-F-E-L-M-A-N and I'll give you my  
7 card when I'm done.

8 But basically recall, your whole -- the  
9 way you behave is directed by the regulations, Part  
10 35, Part 20, et al. The guidance, both the NRC's  
11 guidance and the SNM guidance, are just that.  
12 Guidance.

13 Ultimately, the regulation is what  
14 controls your activities. And your license, which you  
15 said, I'm going to do these things. And so in effect,  
16 the guidance that SNM prepared, that the NRC reviewed  
17 and said yep, this meets it too. Both of those, the  
18 NUREG and that, both of them are just that. Guidance  
19 on how to comply.

20 If your attorney, or your RSO, or somebody  
21 else said, hey, here's something we can do that  
22 conforms, you can do that too. It becomes, though,  
23 when you're inspected, is there some something that  
24 you can point to and say I did that because it made  
25 sense.

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1           And again, it goes back to it's a  
2 performance-based standard, and if you're performing,  
3 then you have met the criteria, the fundamental  
4 criteria of the regulation.

5           Are you, in fact, having misadventures out  
6 there, or is everything hunky-dory in accordance with  
7 --

8           CHAIRMAN CERQUEIRA: Right, but some of  
9 those are subject to interpretation. As you've heard  
10 today, what we've put down and the way it's being  
11 interpreted is not always the same.

12           And I think once you've created guidance  
13 documents, then our constituents could basically be  
14 following recommended policies, but may end up giving  
15 them a violation.

16           I see that the NRC guidance documents are  
17 basically from them, and probably are, you know,  
18 they're probably a little bit more protective in terms  
19 of what people do.

20           Does the NRC give the same weight to the  
21 SNM guidance for diagnostic and therapeutics?

22           MR. UFFELMAN: On the diagnostic, the NRC  
23 put its name on the cover of the publication. As an  
24 alternative to NUREG Volume 9.

25           CHAIRMAN CERQUEIRA: But does that mean

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1 they fully endorse it, the way they do their own  
2 guidance documents?

3 MR. ESSIG: For the diagnostic, I think we  
4 -- that's --

5 MR. UFFELMAN: That's --

6 CHAIRMAN CERQUEIRA: Is that what counsel?  
7 I guess she's gone. Okay.

8 MR. UFFELMAN: That's why they licensed  
9 it. They licensed it from us to publish it as an  
10 alternative to NUREG Volume 9.

11 MR. ESSIG: An acceptable way of  
12 implementing --

13 CHAIRMAN CERQUEIRA: I guess having this  
14 in the minutes of the meeting, or at least in the  
15 transcript, I think makes me feel a little more  
16 confident.

17 DR. SIEGEL: That's a very important  
18 point, because when we were speaking with staff and  
19 the commissioners --

20 CHAIRMAN CERQUEIRA: Right.

21 DR. SIEGEL: Guidance being guidance.  
22 They didn't give it the same weight as the regulation.  
23 And I'm glad Bill brought up that point, because given  
24 that this is guidance, and that there are alternative  
25 methods, and this is sort of "use at your own risk".

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1                   One certainly can't escape, I guess,  
2                   liability in the sense that somebody's going to say,  
3                   well, I saw this here, and because I did this, look  
4                   what happened.

5                   MR. UFFELMAN: That's a challenge I would  
6                   willingly face in court.

7                   DR. SIEGEL: But that's also something  
8                   that could happen as a result of somebody following to  
9                   the letter NRC guidance.

10                  DR. BROSEUS: Mr. Chairman, I have a  
11                  comment.

12                  CHAIRMAN CERQUEIRA: Yes.

13                  DR. BROSEUS: I'm not going to speak to  
14                  the liability issues, but it might be useful, and I  
15                  will make sure that a copy arrives for ACMUI tomorrow.  
16                  There was a regulatory -- a RIS. What does RIS stand  
17                  for? Regulatory Issues Summary.

18                  And that stated clearly what the NRC's  
19                  intent was with regard to making the Society's guide  
20                  for diagnostic uses available to the public. And  
21                  we'll make that available tomorrow.

22                  MR. ESSIG: I had mentioned that earlier.

23                  CHAIRMAN CERQUEIRA: Okay, that will be  
24                  good. Now, the other question is, I mean this is  
25                  coming from the SNM on therapeutics. And are there

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1 any other stakeholders who should have input into  
2 this?

3 DR. NAG: I do not have input into this  
4 document. But what I'm wondering is is such a similar  
5 guidance required, or would it be helpful for the NRC  
6 if, for example, the ASTRO would develop something  
7 similar for therapeutic radiology?

8 DR. SIEGEL: See, I hoped that when we had  
9 these workshops that Tom was talking about several  
10 months back, that more of the professional societies  
11 would have come forward.

12 And I'm quite surprised that in the 50 or  
13 60 or so years, nobody has come forward. And that we  
14 were as a professional organization the first to come  
15 forward to have some professional standards.

16 I mean, purportedly professional health  
17 physicists have the training and experience that they  
18 shouldn't be following guidance blindly. Not that  
19 guidance necessarily is bad, but they ought to have  
20 their own organization, or professional standards with  
21 which to operate.

22 DR. WILLIAMSON: We do, I just want to  
23 interject. The AAPM, the ACR, ACMP, have many  
24 standards of practice in radiation oncology dealing  
25 with --

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1 DR. SIEGEL: No, no, I know that you do.

2 DR. WILLIAMSON: Okay.

3 MR. UFFELMAN: The other -- The reason we  
4 wanted to bring this to you today was if you recall  
5 when we did the diagnostic, we had distributed for  
6 peer review to a couple hundred people.

7 And you all said, well gee, we didn't see  
8 it. The notion was it's here. And as Jeff said,  
9 there's a comment sheet there that we invite your  
10 comments.

11 We hadn't intended that it would get into  
12 the publicly released pieces that went out, but that's  
13 okay if they want to comment too. But obviously, the  
14 copyright remains in the SNM, and what we were looking  
15 for was input from you all on the document because we  
16 will be publishing it as an SNM document.

17 And if, you know, somehow, some way, the  
18 NRC also recognized it, that's a nice thing too.

19 CHAIRMAN CERQUEIRA: Any other questions  
20 for Dr. Siegel? Thank you very much, Jeff.

21 DR. SIEGEL: Thank you very much.

22 CHAIRMAN CERQUEIRA: So that ends today's  
23 session. Jeff?

24 MR. LIETO: Just quick. I notice that the  
25 timeline for review is May 10.

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1 DR. SIEGEL: Oh, that's fine. Obviously  
2 that can't happen.

3 (Laughter.)

4 MR. LIETO: Thank you for recognizing  
5 that. But what -- I mean, are you looking at  
6 something, since most of us have just gotten this  
7 within the past week, what are you looking at?  
8 Something like within 30 to 60 days, or what?

9 DR. SIEGEL: I think if you could do that,  
10 that would be great.

11 MR. LIETO: Okay.

12 DR. VETTER: And where do we send the  
13 comments?

14 MR. UFFELMAN: I think the address is  
15 inside.

16 DR. SIEGEL: Should be a comment sheet.

17 MR. UFFELMAN: Does it say somewhere 1850  
18 Samuel Morris Drive?

19 DR. VETTER: No. There's a comment sheet,  
20 but no address on it.

21 MR. UFFELMAN: The letterhead on the  
22 front. Send it to the Publications Department,  
23 Society of Nuclear Medicine, 1850 --

24 DR. SIEGEL: Or give them your home number  
25 so they can call at night.

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1 MR. UFFELMAN: No, I don't want to talk to  
2 them. And Jeff gave you way too much time. If, in  
3 fact, you could comment in the next two to three  
4 weeks, that would be appreciated, because we're going  
5 to the annual meeting.

6 My anniversary is the 21st. So somewhere  
7 around the 21st of June we'll be at the annual  
8 meeting. And the notion was we would be able to say  
9 the review had been completed by the time we got  
10 there.

11 CHAIRMAN CERQUEIRA: Excellent. Tom?

12 MR. ESSIG: Just one point. I realize  
13 we're about to adjourn the meeting for the day.

14 CHAIRMAN CERQUEIRA: The open session.

15 MR. ESSIG: Just wanted to mention that we  
16 will reassemble. And I think those of you that need  
17 security badges need to pick them up over at the other  
18 building. I believe that's the arrangement.

19 CHAIRMAN CERQUEIRA: Should we do that and  
20 then come back?

21 MR. ESSIG: And you can do that, and then  
22 come back. And why don't we take about 10 minutes,  
23 then resume our closed session from this morning.

24 MS. WILLIAMSON: Before everybody leaves,  
25 can I make some quick announcements concerning your

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1 badges. Just real quick, just a minute. To get your  
2 new badges, all you have to do is walk over to the  
3 other building and surrender your current badges.  
4 That's it.

5 Ms. McBurney, I need to talk to you.

6 (Laughter.)

7 (Whereupon, the above-entitled matter  
8 went off the record at 4:55 p.m. and went  
9 back on the record at 5:08 p.m.)

10 DR. WILLIAMSON: I think on the remaining  
11 concerns of Part 35, we clearly have the issue of  
12 licensing conditions for sealed, interstitial  
13 brachytherapy sources, that remains an issue that  
14 we're quite concerned about and should probably be  
15 mentioned to them.

16 Another one that is a concern for me was  
17 alluded to in the last session, which, you know,  
18 basically the Office of General Counsel is going to  
19 decide almost, you know, what fraction of properly  
20 done prostate implants today are going to be medical  
21 events tomorrow.

22 You know, and this is the issue of how to  
23 interpret the language of what's permitted in  
24 permanent brachytherapy in terms of prescription  
25 revision. And just so you know what the issue is, is

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1 that implants are preplanned based on minimum dose to  
2 the prostate capsule, usually.

3 But when implants are executed, you know,  
4 because of the inability to place the seeds precisely  
5 where you want to and seed migration and prostate  
6 edema and so forth, the minimum dose on average that  
7 you get at the end of the procedure when you do a  
8 post-implant CT and look at it, comes out to be  
9 sometimes only 60 percent of what that was prescribed.

10 So practically speaking, what is used is  
11 the dose to 90 percent of the target volume as a  
12 parameter for determining how good the prostate  
13 implant is. And somehow, you know, we have to have  
14 some influence on this process to make sure that a  
15 realistic, a clinically realistic interpretation of  
16 how to write written directive for prostate implant is  
17 developed, or the NRC could be swamped with thousands  
18 of meaningless medical events.

19 DR. NAG: Now let me add a couple of  
20 things. It also depends, when you're saying the dose  
21 is often implied, you are saying that the dose is  
22 13,000 or 15,000, is purely obviously because it  
23 depends on how you do the volume of the prostate.

24 And we have done this at the study between  
25 our members. We had asked them excellent work known

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1 like a Therapist to circle the prostate, and all the  
2 ten circles were different. And I can give you that  
3 study.

4 So if you take the dosimetry from those  
5 ten people, from the same implant, same prostate, that  
6 those were different in the prostate by ten different  
7 people.

8 And in all, all the human control, the  
9 dose in the, I wouldn't say meaningless, but it  
10 depends on how you are interpreting the dose. So just  
11 because we like 13,000 or 15,000, that doesn't  
12 necessarily mean, you know, that you're under those in  
13 the prostate, all were those in the prostate.

14 And the important thing is that the  
15 therapy of the basin not undermine the, because they  
16 are basically cured.

17 DR. WILLIAMSON: So I have great concern  
18 when I hear about an attorney who has like no  
19 conception or understanding of the clinical process  
20 and what constitutes, you know, essentially an  
21 avoidable technical error, and what constitutes a  
22 properly done prostate implant.

23 CHAIRMAN CERQUEIRA: So this is a concern  
24 that we need to bring up with them.

25 DR. WILLIAMSON: Absolutely.

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1 CHAIRMAN CERQUEIRA: And maybe the two of  
2 you, since, you know, this is not an area where I have  
3 a lot, maybe you could just draft a few slides for me,  
4 and we can get those in.

5 So issues related to therapy with, you  
6 know, issues for brachytherapy for, that's one area of  
7 concern.

8 DR. NAG: Especially permanent implants.

9 CHAIRMAN CERQUEIRA: Permanent, okay.

10 DR. WILLIAMSON: Yeah.

11 CHAIRMAN CERQUEIRA: And then we have the  
12 issue of the training and experience which, again, I  
13 just got a list from Lloyd. So far three states have  
14 bought into the NRC proposal, the agreement states.

15 But the others we haven't heard from. We  
16 have no idea how they are going to deal with this.

17 DR. WILLIAMSON: Lloyd just entered the  
18 room.

19 CHAIRMAN CERQUEIRA: Did he? Okay, yeah,  
20 Lloyd and I were talking. And so, you know, and I'm  
21 not sure there's anyway of knowing at this point what  
22 they remaining agreements states will do with this.  
23 And certainly for the physician authorized users it's  
24 going to be a major problem.

25 MS. MCBURNEY: Dr. Cerqueira?

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1 CHAIRMAN CERQUEIRA: Yes.

2 MS. MCBURNEY: Just speaking for one  
3 agreement state, we have adopted everything except  
4 the, just about, except the training experience. And  
5 we were waiting until we get all this, the other  
6 issues worked out on that.

7 CHAIRMAN CERQUEIRA: Right. And Wisconsin  
8 is doing the same thing.

9 MS. MCBURNEY: So that we wouldn't have to  
10 do two rule makings dealing with training experience,  
11 that we would just do one. And I think a lot of the  
12 states are waiting for this additional rule making  
13 before they --

14 DR. WILLIAMSON: Are you going to  
15 represent the state of this in your general summary  
16 about the ACMUI?

17 CHAIRMAN CERQUEIRA: No. One of the items  
18 is just sort of a --

19 MS. MCBURNEY: Implement.

20 CHAIRMAN CERQUEIRA: Yeah. ACMUI feedback  
21 on the status of implementation of the revised 10 CFR  
22 Part 35. And, you know, we don't have all that much  
23 feedback at this point. I haven't, you know --

24 DR. WILLIAMSON: Well, is the training and  
25 experience a separate agenda item or covered under the

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1 --

2 CHAIRMAN CERQUEIRA: No, it's not a  
3 separate agenda item. It's going to be covered under  
4 here.

5 DR. WILLIAMSON: I think that it might be  
6 good to maybe, I don't know if Dick will be attending  
7 this or not.

8 CHAIRMAN CERQUEIRA: The commission  
9 briefing?

10 DR. WILLIAMSON: Yeah, to make some  
11 comments about residual issues and some responses to  
12 --

13 MS. MCBURNEY: Yes, he is going to be --

14 CHAIRMAN CERQUEIRA: He is going to be  
15 there, right.

16 DR. WILLIAMSON: So you don't need to  
17 cover that, then.

18 CHAIRMAN CERQUEIRA: Right.

19 MS. MCBURNEY: Right.

20 CHAIRMAN CERQUEIRA: Okay. Well, what  
21 other, you know, again I don't have to go on very  
22 long. I think that some of these issues about the  
23 prostate -- yes, what else?

24 DR. WILLIAMSON: Well, I think that since  
25 you're covering, generally, the status of the ACMUI,

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1 as our Chairman, I think you should allude the issues  
2 of communication and our concern, you know, about, you  
3 know, what we talked about this morning.

4 So I think you should summarize that and  
5 summarize our proposal.

6 CHAIRMAN CERQUEIRA: Right. For the  
7 follow up conference.

8 DR. WILLIAMSON: Yeah, that we've sort of  
9 settled on the third way, which is, you know, we want  
10 to have some kind of a codification of how, I don't  
11 know, not disputes exactly, but you know --

12 CHAIRMAN CERQUEIRA: Sort of follow up on  
13 important issues.

14 DR. WILLIAMSON: -- how are advice needs  
15 to be handled when we get a negative reception over  
16 some issue we feel strongly.

17 DR. MILLER: I think what you're looking  
18 for is in instances where you have a passion about a  
19 certain recommendation that you've made and the staff  
20 doesn't take you up on your recommendation, you'd like  
21 to make sure that the Commission is aware of, of your  
22 concerns and your position.

23 DR. WILLIAMSON: So I think a little bit  
24 about some of the past history and our recent concern.  
25 I'm sure this has probably reached them if any of the

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1 Commissioners have ever looked at the transcript or  
2 the summary of our minutes.

3 It would be worth summarizing this when --

4 MR. ESSIG: And I think it would be worth  
5 contrasting the difference between this Advisory  
6 Committee and the other two. Namely, that they report  
7 directly to the Commission and they issue a letter  
8 from the Chairman of the Committee to the Chairman of  
9 the Commission with recommendations.

10 Whereas, this Committee reports within  
11 NMNS and because of its narrower focus, in large  
12 measure, and so that the recommendations come up and  
13 in a way that could be a lead in to what you're going  
14 to share with them then.

15 CHAIRMAN CERQUEIRA: Okay, all right. So,  
16 okay, now that's a good point. The structure, the  
17 reporting structure for this Committee is different  
18 from the other two that -- okay.

19 DR. NAG: Manny, I have one thing.  
20 Whether it would be worthwhile to bring up the example  
21 we had this afternoon where you had 15 or 20 different  
22 types of sources with them all essentially similar,  
23 but because of the way they were interpreted you have  
24 to get a license every time you change from one to the  
25 other with no base and consequences.

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1 DR. WILLIAMSON: I think that's on your  
2 list, right?

3 CHAIRMAN CERQUEIRA: Yeah, the first two  
4 items.

5 DR. WILLIAMSON: Yeah, the licensing --

6 CHAIRMAN CERQUEIRA: Licensing conditions  
7 for interstitial and implanted brachytherapy devices,  
8 yeah. And you guys are going to give me some, well  
9 some, just some of the talking points, because, you  
10 know, it's really important.

11 MR. ESSIG: Could I suggest that since  
12 Paul Lohaus and his staff are here --

13 CHAIRMAN CERQUEIRA: Yes.

14 MR. ESSIG: -- they came this morning. We  
15 had to turn them away and they've come back now. And  
16 we can talk about Ralph's slides.

17 CHAIRMAN CERQUEIRA: Excellent, yes.

18 MR. ESSIG: And, Paul, if you want to come  
19 up to the table here and this is, Ralph Lieto has the  
20 lead for this, on the 28th, this presentation is on  
21 the, on the agenda.

22 He is going to be summarizing on behalf of  
23 the Committee and we stumbled on a couple of things  
24 this morning. So, that we're, so, Ralph, do you want  
25 to kind of pick up and maybe Paul can help answer the

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1 issues.

2 MR. LOHAUS: Hello.

3 MR. LIETO: Where do I start? Here. I  
4 think in basically some of the comments I got back  
5 from the Committee members this morning, I think the  
6 stumbling block had to do with the issues regarding  
7 areas of concern.

8 And that there was support for the  
9 alliance concept or methodology of program, National  
10 Material Program, which was the working group  
11 recommendation.

12 And that there were four main components  
13 of that alliance program. And the one, or one of the  
14 four that was of concern, potential concern, had to do  
15 with NARM, regulation of NARM.

16 And its potential increased regulatory  
17 burden, impact and so forth. Where we really got into  
18 stumbling I think was on understanding, I think, from  
19 the working group report that was reviewed and  
20 presented at the last meeting.

21 It had to do with state program issues and  
22 funding. Okay. And the alliance program, that is  
23 really in essence not much, I'm sort of asking a  
24 question, is not much of a change than what is going  
25 to be existing now, except you're going to have NARM.

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1 Is that accurate?

2 MR. LOHAUS: Let me, in response, let me  
3 provide a little background information because on one  
4 hand the alliance structure that the working group  
5 recommended, is really a further evolution and  
6 advancement of where the National Materials Program is  
7 today.

8 And I always like to start out and  
9 indicate that there is a National Materials Program  
10 today. It's basically, what the program is, in terms  
11 of the states and the NRC.

12 And over the past several years, and it's  
13 really more than several years now, we've been very  
14 effective in terms of using a combination of state and  
15 NRC resources through a working group process to  
16 address areas of new guidance, rule making activities,  
17 common regulatory issues.

18 And working groups will develop a product  
19 that can then be utilized, whether it be by NRC or the  
20 state. And that is really at the heart of the  
21 alliance concept. What the alliance concept or  
22 structure does though, as envisioned by the working  
23 group, is it expands that out and has additional  
24 factors that you don't necessarily see in today's  
25 program.

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1           The concept of using centers of expertise.  
2       For example, you can see that in places today. For  
3       example, Texas took a lead earlier and developed a  
4       well walking rule that was sort of a center expertise  
5       and they took the lead to develop that.

6           But you don't see that in a, in a heart  
7       sense as a structure or practice that's carried out.  
8       The alliance also includes a concept of what's called  
9       the administrative core. And I have a hard time  
10      getting my hands around exactly what the  
11      administrative core is.

12           Because if you look at this and you look  
13      at the alliance process, there needs to be an  
14      organization, and right now I think NRC is probably  
15      that organization, that helps take on accountability,  
16      make sure products, when they are needed, are  
17      completed.

18           Completed on schedule. That they meet  
19      their intended purpose. That they are the right  
20      standards of quality, etcetera. And the alliance  
21      concept, as you see that in the working group report,  
22      it talks about this administrative core, but it's not  
23      really clear exactly who that administrative core is  
24      or how it functions.

25           And it could be a consortium of CRCPD,

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1 OAS, and NRC. It could be CRCPD. It could be NRC.  
2 And that's something that I think will have to be  
3 sorted out in the future. And I think today, if I  
4 were to answer the question, it's really NRC sort of  
5 has the lead and carries out that responsibility.

6 But it's done through some of the kinds of  
7 mechanisms and processes that you would see in an  
8 alliance program. And that's one of the reasons that  
9 when we went back to the commission on the pilot  
10 projects, the staff recommendation, and this was  
11 really not only a staff recommendation, but a  
12 recommendation that CRCPD and OAS agreed with, was to  
13 use what we called a blending of the current program.

14 The current program as it exists today,  
15 and the alliance option, which is to try and push  
16 further the state of the art in the evolution in terms  
17 of how the alliance process could work in the future.  
18 But there are some unanswered questions.

19 MR. LIETO: So it continues to be a hybrid  
20 of agreement and non-agreement states?

21 MR. LOHAUS: In this case, it's  
22 principally NRC, agreement states and CRCPD and, on  
23 occasion, a non-agreement state if there is an issue  
24 that, where we want non-agreement state input. But  
25 the primary, central focus of this, is really

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1 agreement states.

2 Not non-agreement states. Although, when  
3 you bring CRCPD into this, you bring in both agreement  
4 and non-agreement states. And I realize that's hard to  
5 make that differentiation, but I think in terms of  
6 looking at the National Materials Program, it would be  
7 best characterized as NRC and the agreement states.

8 I would not bring the non-agreement states  
9 in. But, what you're seeing on certain issues, such  
10 as regulation of NARM and questions like that, which  
11 have an impact on agreement state programs, what we're  
12 doing is we're involving CRCPD and bringing in,  
13 through that organization, a non-agreement state  
14 perspective to have the benefit of those views on  
15 questions that have an effect on the non-agreement  
16 state programs. Ruth?

17 MS. MCBURNEY: Yeah, I would add that  
18 normally if, on matters of byproduct material and so  
19 forth, even the CRCPD puts someone in from an  
20 agreement state on working groups and steering  
21 committees, to the mix.

22 MR. LOHAUS: And that's, that's a very  
23 good point. Because if you look at the process of  
24 developing the suggested state regulations, one of the  
25 things that we've tried to do more recently is to try

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1 and work NRC's rulemaking process and work the  
2 suggested state regulation process in parallel.

3 Which means that the, the individual  
4 within that conference committee that has  
5 responsibility for that particular suggested state  
6 regulation part, would work, if we had a working group  
7 set up to deal with that, would work on that working  
8 group.

9 So you'd have both the benefit of the  
10 conference committee and the working group and the  
11 cross over that would occur, so the two could proceed  
12 in parallel. And we tried to do that on Part 35, as  
13 well as I think you're aware, and that was one of the,  
14 it wasn't really a pilot, but it was, the process, the  
15 idea was to try and work that process in parallel.

16 And some of it worked well, and some of it  
17 didn't work quite so well. There's, we're going to,  
18 as we continue to do this, gain experience and reflect  
19 that back. But I think that to say that the  
20 non-agreement states are part of the National  
21 Materials --

22 MR. LIETO: I guess that's still a  
23 fundamental issue that I think was not clear in the  
24 report or maybe misunderstood from the report is that  
25 when you say NRC, okay, does that include individual

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1 states?

2 For example, Michigan is an NRC-regulated  
3 state. So when you're talking NRC, do you mean  
4 Michigan? Do you mean Minnesota?

5 MR. LOHAUS: No. NRC, solely NRC.

6 MR. LIETO: Okay. That's, that's, I  
7 think, part of the issue here. Okay. You're saying  
8 it doesn't involve non-agreement states. Okay. So  
9 where do they fall in the alliance? They're not part  
10 of a National Materials Program?

11 How do you call it a National Materials  
12 Program, if the states that are regulated by the NRC  
13 are not part of the process. See, my, well, I  
14 understand the alliance about, with the agreement  
15 states, okay.

16 And that's what I think is part of the  
17 misunderstanding. Maybe it's a misunderstanding or  
18 confusion. Is that, it seemed like an alliance, the  
19 alliance is that the states, all states sort of  
20 achieve an agreement state status.

21 And you have the NRC as this, or whatever  
22 Agency, CRCPD, OAS, whatever, or a hybrid of the  
23 three, as this, in alliance with the states.

24 MR. LOHAUS: If the atomic energy --

25 MR. LIETO: Because you keep talking

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1 states and NRC, and that's where I'm trying to  
2 understand. I understand where non-agreement states  
3 fit in, or agreement states fit in. Where do the  
4 non-agreement states fit ?

5 MS. MCBURNEY: They are regulated by NRC.

6 MR. LIETO: But he just said they are not  
7 part of NRC.

8 MR. LOHAUS: No, they are regulated by  
9 NRC, but I guess I was looking at this through the  
10 standpoint of if you were to look at the National  
11 Material Program and in terms of where that program is  
12 today, it addresses Atomic Energy Act materials, and  
13 it consists of the agreement state programs and NRC's  
14 regulatory program, which covers the suite of  
15 agreement material licensees, Atomic Energy Act  
16 materials licensees nationally.

17 It does not include a non-agreement state,  
18 such as Michigan.

19 DR. WILLIAMSON: But if you expand the  
20 legislative mandate, if you amend the Atomic Energy  
21 Act to include NARM, then you are going to force the  
22 non-agreement states either to become agreement states  
23 or shut down their non-regulatory programs and make  
24 way for you.

25 MR. LOHAUS: I mean that's certainly an

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1 issue that would need to be addressed as a part of  
2 consideration of any legislation to amend the Atomic  
3 Energy Act to consider NARM. It's how you would  
4 handle states, non-agreement states, that have NARM  
5 Programs.

6 And some register, some license, there's  
7 differing degrees. But I think in general most of the  
8 non-agreement states do have programs of regulatory  
9 oversight over NARM. And that's a question, as a part  
10 of the legislation, if that were to be considered,  
11 that would have to be addressed.

12 DR. WILLIAMSON: I think we should stick,  
13 I'm just making a suggestion to you, Ralph. Because  
14 I think to get caught up in all of this bureaucratic  
15 -- I don't understand hardly a word you've said, to be  
16 honest with you.

17 This whole program sounds so vague and  
18 ephemeral and I think this is an administrative issue  
19 that impacts the regulatory agencies and the state,  
20 and you know our mandate is to speak for medical  
21 licensees, in both agreement and non-agreement states.

22 So I think we should maybe put the  
23 emphasis of your presentation on the potential  
24 negative impacts of regulating NARM by NRC or some  
25 combination of NRC and the agreement, plus or minus

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1 non-agreement states.

2 Which, you know, that's a big mess. I  
3 think, you know, we're concerned about increasing the  
4 cost or availability of PET imaging for our patients.  
5 We are concerned that, you know, we're taking a  
6 problem where we don't see, basically taking a set of  
7 radiation medicine procedures where there's no  
8 perceived problem or public health hazard, and all of  
9 a sudden imposing a regulatory burden on it.

10 You know, and we don't see the rationale  
11 very clearly. We are concerned that by NRC taking on  
12 the mandate to have to develop the expertise to handle  
13 a whole new set of medical applications that they  
14 don't have familiarity with, with an ever shrinking  
15 population of licensees, that this is going to  
16 increase the cost burden to all licensees that  
17 continue to be regulated by NRC.

18 So I think these are some issues we're  
19 concerned with and are reflected in our transcript of  
20 the October meeting.

21 MR. LIETO: And I think, my feeling is  
22 just pulling that whole slide out. I think this slide  
23 about state programs is a, it's quicksand. And so,  
24 there is other ways I'd rather drown.

25 DR. WILLIAMSON: I just think it's too far

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1 from our community to worry about.

2 MR. LIETO: Maybe just not try to profess  
3 or maybe create more confusion than already exists,  
4 and some misrepresentations to the Commission.  
5 Definitely we don't want to do that. So I think it  
6 might be because this is so much in the early phases.

7 And I think, as Mike pointed out earlier,  
8 there's, which was before this, that there are pilot  
9 programs going on in some aspects that, you know,  
10 maybe the thing to do is just make sure that we just  
11 address the PET issue and the issues about cost.

12 MR. LOHAUS: What I was going to offer is  
13 in the pilot programs specifically, is that recognize  
14 that the report that we provided to you, is a working  
15 group report. That report was provided to the  
16 Commission. The Commission has not endorsed or  
17 accepted or approved any particular option.

18 They have not endorsed the alliance option  
19 in particular or approved the alliance option in  
20 particular. But what they have done is provided  
21 direction to the staff, and in a sense, to the states,  
22 to work together on five pilot projects using a  
23 blended approach.

24 Which is really using the existing  
25 program, but sort of pushing that a little bit further

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1 in the direction of the alliance. And based on the  
2 results of that and the report is due to the  
3 Commission in November of '04. Then there will be  
4 further consideration of whether there should be any  
5 additional direction or guidance provided to the  
6 staff.

7 And I think, in this case, the states  
8 relative to how that, how the program should be  
9 managed and going forward. So I think you're very  
10 correct in terms of the, it's maybe premature at this  
11 time given the fact that the pilots are underway.

12 We're trying to develop a better base of  
13 information so all of us can better understand and the  
14 Commission can get a better base of information to  
15 make some of these decisions. And it maybe premature  
16 to try and force some --

17 CHAIRMAN CERQUEIRA: Premature to have  
18 answers, but at the same time, these are issues that  
19 need to be addressed. And I would be rather in favor  
20 of bringing it up now, while it's in a draft form,  
21 rather than waiting until it becomes more solidified.  
22 Charlie?

23 DR. MILLER: Let me see if I can help you.  
24 Maybe I'll make it worse, but I'll try not to. On  
25 Jeff's concern, I mean if the committee has got

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1 concerns about, specific to NARM regulation, and the  
2 NRC regulating NARM, on the one hand you can say,  
3 well, since it's just the legislative proposal at this  
4 point in time, the Commission has no authority yet, so  
5 what can you gain by addressing the Commission.

6 But on the other hand, if you feel strong  
7 enough about that, as a Committee, about concerns  
8 about the NRC doing that, you have two choices, as I  
9 see it, to go forward.

10 You can let the Commission know what your  
11 concerns are, so as the Commission addresses with  
12 Congress comments on proposed legislation, they can  
13 factor that in. Or, each of you, by other means, can  
14 lobby the Congress with regard to your concerns.

15 But as a committee, I would think the best  
16 you could do now is to say to the Commission, here are  
17 our concerns about the NRC doing this. And as the  
18 legislative proposal goes forward, the NRC does  
19 periodically get the opportunity to comment on those.

20 And the Commission, in its wisdom, could  
21 decide if they wanted to do that or not.

22 CHAIRMAN CERQUEIRA: I think it would be  
23 important to bring it up. Is that, is that the --

24 MS. MCBURNEY: Yes, I do.

25 CHAIRMAN CERQUEIRA: -- anybody opposed to

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1 keeping it on the agenda?

2 MR. ESSIG: Let me just add one point,  
3 though.

4 CHAIRMAN CERQUEIRA: Sure.

5 MR. ESSIG: That we'll do a little role  
6 reversal. I'm going to give you some advice.

7 CHAIRMAN CERQUEIRA: Okay.

8 MR. ESSIG: Okay. The advice that I would  
9 give you is that recognize that the Commission has  
10 already endorsed the need to regulate NARM, specific  
11 sources now, not, probably not even those that are  
12 used in most routine, run-of-the-mill diagnostic  
13 programs.

14 And I'm sure PET isn't even on the radar  
15 screen of concern. What the concern was that, as I  
16 think I hopefully mentioned earlier today, when I was  
17 describing it as the whole source security issue that  
18 we're dealing with now for Atomic Energy Act material.

19 The impetus for the NRC proposing to the  
20 White House that we jump on this bandwagon was the  
21 idea that there may be some sources, either discreet  
22 naturally occurring materials, like Radium 226, that  
23 were used a number of years ago in medical  
24 applications.

25 Or some discreet sources of

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1        accelerator-produced materials, although maybe not  
2        used in medical applications, might be used in other  
3        applications like industrial radiography and so on.

4                My advice would be that you just simply  
5        recognize that the Commission has some concerns over  
6        the security of all sources, including  
7        accelerator-produced, and that was the basis for  
8        mentioning, for endorsing that proposal to Congress.

9                And then you can say, however, the baggage  
10       that goes with that, as far as we're concerned, is  
11       that NRC would be regulating, as Jeff was saying, in  
12       the states that opt not to become agreement states,  
13       that we would then be the regulatory authority.

14               And the baggage that goes with it, is that  
15       we, the NRC then, would be regulating things like PET.  
16       But we didn't start off to do that. We started off to  
17       level the playing field in terms of security sources.

18               DR. WILLIAMSON: So I think to --

19               MR. ESSIG: So that's an important point  
20       to recognize so you don't --

21               CHAIRMAN CERQUEIRA: Right. I think Ralph  
22       --

23               MR. ESSIG: -- because you're weighing in  
24       on something the Commission has already decided more  
25       or less to do for a different reason and just

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1 recognize that.

2 DR. WILLIAMSON: To maybe argue that for  
3 these medical sources, there isn't really this  
4 security risk. And bring that point that we're going  
5 to have to suffer and maybe our patients will suffer  
6 and, you know, it's going to cause, certainly a lot of  
7 confusion and chaos with no really incremental  
8 improvement in safety, public safety in this sphere of  
9 unauthorized usage of sources. Okay.

10 CHAIRMAN CERQUEIRA: Excellent. Ralph,  
11 you've got all this down. We're behind you, don't  
12 worry.

13 MR. LIETO: Verbatim.

14 (Laughter.)

15 CHAIRMAN CERQUEIRA: Yeah, I think they  
16 are good points, yeah.

17 DR. VETTER: Have the agreement states all  
18 been notified of the existence of the program?

19 MS. MCBURNEY: Oh, yes.

20 MR. LOHAUS: Yes.

21 DR. VETTER: Have the non-agreement states  
22 who are applying to become agreement states, been  
23 notified of the program?

24 MR. LOHAUS: Yes. And when you refer to  
25 the program, you're talking about --

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1 DR. VETTER: The National Materials  
2 Program.

3 MR. LOHAUS: Yes. As a matter of fact,  
4 one of the things that we've tried to do is to have a  
5 very open process. And at the CRCPD meeting we had a  
6 special topic session, where each of the Chairs for  
7 each of the five pilots presented information on what  
8 we're doing.

9 And we answered questions and talked about  
10 some of the issues that we're going to have to be  
11 dealing with. We were trying to get everybody  
12 thinking about this and feeding back into the process.

13 And I agree, Dr. Cerqueira, that earlier  
14 is better than later. And we do seek and desire, and  
15 the Commission does desire and seek feedback. And  
16 that was identified in their SRM. So, and I know and  
17 appreciate the earlier comments that you all provided  
18 to us.

19 And those, we have those and they are  
20 being factored into our process as well. So, that's  
21 --

22 CHAIRMAN CERQUEIRA: So, I think there's  
23 agreement. Now, Ralph, what other issues do you have  
24 for Paul? Is that it?

25 MR. LIETO: Well, I think the issues about

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1 the costs, that was going to be one of the other  
2 points, was that, again, it came from the state  
3 versus, the state issues in that the current structure  
4 is that the cost of the program from NRC is a  
5 fee-based program that, you know, basically you have  
6 to assign fees to cover your annual operating budget,  
7 okay.

8 And that, with this shift in the program,  
9 okay, there is a concern that how is that program  
10 going to be able to be maintained without  
11 significantly increasing the cost to NRC-regulated  
12 licensees, okay, with that type of structure.

13 In that there really needs to be a part of  
14 the, or the funding mechanism needs to be a part of  
15 the Congressional. A suggestion would be that if  
16 you're going to go this way, you need to look at,  
17 relook, re-evaluate in the way that you could do the  
18 funding.

19 MR. LOHAUS: That's a, yes, a very good  
20 point. And the key for the consideration by  
21 Commission in looking at the National Materials  
22 Program, because the thought is if you look at this,  
23 about 75 percent of the licensees are in agreement  
24 states, yet the bulk of the infrastructure work is  
25 basically done by NRC.

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1           And part of the concept in the National  
2           Materials Program. And it's reflected in the alliance  
3           process is that there be a shifting, if you will, a  
4           more equitable shifting and shearing of the  
5           infrastructure work load by the states in state  
6           licensees. And that part of the concept.

7           But, again, there is a long way to go  
8           before that comes out and the question of funding and  
9           how you handle that in fees and things like that is a  
10          very key issue here because of the --

11          DR. WILLIAMSON: You still face the issue  
12          that you're going to take over a whole bunch of  
13          non-agreement states' programs, probably, in this  
14          area. And, you know, you have to develop in-house  
15          expertise to handle TARs and accelerator expertise and  
16          so on, and this is a concern of ours.

17          MS. MCBURNEY: You're just trying to make  
18          a NARM issue.

19          CHAIRMAN CERQUEIRA: The NARM issue. We  
20          need to keep going, otherwise -- any other questions  
21          for Paul?

22          DR. WILLIAMSON: I mean I think the idea  
23          of apple pie and motherhood and so on applying to the  
24          existing domain, you know, is one thing, and maybe it  
25          will help save some costs. Maybe there is a chance.

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1 But I think, you know, the concern of the  
2 committee, as expressed in our last meeting, is you  
3 are now introducing a new source of disequilibrium and  
4 funds are going to flow in and out.

5 The states are all strapped for budgets,  
6 maybe even more than the federal government, since  
7 they can't deficit spend and to sort of expect the  
8 states to take on part of this infrastructure load may  
9 not be very realistic.

10 CHAIRMAN CERQUEIRA: Excellent point.  
11 Okay, Ralph, anything else for Paul?

12 MR. LIETO: Thank you, Paul.

13 MR. LOHAUS: Okay, thank you very much.

14 CHAIRMAN CERQUEIRA: Thank you. We  
15 appreciate you spending your time. All right, so,  
16 Ralph, do you have any other points?

17 MR. LIETO: No.

18 CHAIRMAN CERQUEIRA: Ruth, do you want to  
19 go next?

20 MS. MCBURNEY: Mine is on the emerging  
21 technologies and issues subcommittee. And basically  
22 I'm going to be just talking about the process. And  
23 then if we can reach consensus tomorrow on some, and  
24 identify some of the issues involved with the three  
25 initial licensing guidance input that we have asked to

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1 do, then I will bring that up at the briefing.

2 But, in order to do slides, I could only  
3 do what we have done so far, and that's identify the  
4 --

5 DR. WILLIAMSON: We haven't done anything  
6 so far. I mean, I'm supposed to be on the  
7 subcommittee, I've never gotten a call about a  
8 meeting.

9 MS. MCBURNEY: I sent out an e-mail asking  
10 for input early on. I didn't get any, and so we are  
11 meeting at this meeting and that's part of tomorrow's  
12 agenda.

13 DR. WILLIAMSON: Okay.

14 CHAIRMAN CERQUEIRA: Right, right. And  
15 there's going to be quite a few items on the agenda  
16 from the various interest groups tomorrow, that I  
17 think will -- but unfortunately I think it's just  
18 going to be, you know, another turf issue that's going  
19 to come up, and I'm not sure how much --

20 MS. MCBURNEY: On the training experience  
21 issue.

22 CHAIRMAN CERQUEIRA: Right. Right.

23 DR. NAG: One question on that. Is there,  
24 I mean I've heard rumors, a move to get interstitial  
25 brachytherapy out of 1,000 and into the regular

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1 brachytherapy? And if so, what mechanism? That's  
2 one. Number two, what is the mechanism when it's  
3 something new coming up, it comes under 1,000, but  
4 once it becomes an accepted practice, after two or  
5 three or four years, it will have to go under one of  
6 the other therapies, what mechanism for that?

7 CHAIRMAN CERQUEIRA: That's sort of an NRC  
8 staff question. I don't, do we have a precedent that  
9 something was approved under the 1,000 --

10 DR. NAG: Well, the 1,000 just came out.  
11 So there will be no precedent. But, I mean, you can  
12 never, if something is emerging, I mean, you know,  
13 something emerges then it becomes a routine.

14 MR. ESSIG: Well, I suppose you would  
15 contemplate a rule making initiative at some point.  
16 Either from outside --

17 DR. HOWE: I think you could look at the  
18 gamma knife and the HDR and you'd see. I think you  
19 could look at the gamma knife and the HDR and see that  
20 those were new technologies back in the '90s.

21 They developed to the point where there  
22 was enough use and enough licensees needing it, that  
23 it became a part of the new Part 35. You're wrong in  
24 that there maybe some emerging technologies that never  
25 are large enough to require rule making.

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1           There may be some very small things that  
2           are emerging technology that may stay in 1,000  
3           forever. Now there may be other technologies that  
4           really take off, and it becomes a point where they  
5           justify their own particular rules.

6           And then you would want to go through the  
7           rule making process like you did with the gamma knife  
8           and the HDR, to bring that guidance into a legitimate  
9           --

10           DR. NAG: I mean in that, I mean, for  
11           example, interstitial brachytherapy in 1,000, but if  
12           you're using iridium afterloading, that's the same as  
13           brachytherapy.

14           And if you are using a high dose rate for  
15           intravascular HDR brachytherapy. So at some point  
16           things will have to be moved. Then this is something  
17           that I heard over the grapevine that once the  
18           intravascular brachytherapy has been moved into  
19           brachytherapy, this just a little more, there is  
20           something about that. Does anyone know?

21           DR. HOWE: At this point, for NRC it's a  
22           rumor. We, it was indicated in the Statements of  
23           Consideration as a 35.1000 use. And so that's where  
24           it is right now with its guidance up on the web site.

25           CHAIRMAN CERQUEIRA: So, do we want to

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1 bring that up before the Commissioners? I'm not sure  
2 we have anything --

3 DR. NAG: If we don't have anything, I  
4 wouldn't --

5 CHAIRMAN CERQUEIRA: Okay, so we agree not  
6 to do that. What else, so basically, and what  
7 potential could emerge tomorrow from the discussions?

8 MS. MCBURNEY: If we get some consensus on  
9 training experience, for example, for each of those  
10 three items. I've got an outline of what I'd like to  
11 go over.

12 DR. WILLIAMSON: Could I ask a question of  
13 clarification?

14 CHAIRMAN CERQUEIRA: Yes.

15 DR. WILLIAMSON: I think it would be, many  
16 of the proposed recommendations make reference to the  
17 vendors' product insert and instructions for dosimetry  
18 and so on. Could that be made available to us  
19 tomorrow so we can have that to refer to you?

20 Could we get copies of them? Because I  
21 think it is going to be very difficult to conduct a  
22 technical conversation about these things without that  
23 material. We once had it, I think about two years  
24 ago, two or three years ago.

25 I remember seeing the TheraSphere product

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1 insert duplicated. But since the, you know, your  
2 proposal makes reference to that, we're going to have  
3 a tough time if we don't have a copy.

4 DR. NAG: We've never seen a Sirtex  
5 insert. We had seen, there was a small presentation  
6 from TheraSphere from, from MDS Norton, but we've  
7 never had a presentation from Sirtex.

8 Which is similar in some ways, but  
9 dissimilar in many other ways.

10 DR. WILLIAMSON: So, we need those  
11 materials.

12 MR. ESSIG: I'd have to ask my staff here.  
13 Do we know if we have those?

14 DR. HOWE: We have some of those  
15 materials. Are you talking about everything in 1000  
16 or --

17 DR. WILLIAMSON: No, no, just the products  
18 that are going to be discussed tomorrow.

19 DR. NAG: The iodine for leocite. The  
20 Sirtex.

21 DR. HOWE: Because tomorrow, at one point  
22 or another, we're talking about all the things in  
23 1000.

24 DR. WILLIAMSON: Well, I think the use, I  
25 guess, if you're involved in orchestrating the

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1 discussion and you know the proposals make reference  
2 to, you know, those vendor supplied materials, I'd say  
3 use some judgment in, you know, duplicating what you  
4 think would be necessary for us to be able to have an  
5 -- because otherwise we're going to be asking, well,  
6 you say you recommend what the vendor says to do, and  
7 then you'll have to be telling us all about what the  
8 vendor said.

9 MR. ESSIG: I mean, if we have some vendor  
10 supplied material, we'd be happy to share it with you.  
11 It's just --

12 DR. WILLIAMSON: Well, you must, because  
13 you based your proposed -- I read through the slides  
14 and they make references to it that you would endorse  
15 certain --

16 DR. HOWE: In most cases we talk about  
17 vendor training because we believe the vendor is the  
18 best person to train people on the new device. They  
19 know the ins and outs, they want the product to roll  
20 out while they have the knowledge base.

21 But I don't think we talk about following  
22 other package inserts, because we're not tied to  
23 package inserts. Although we do for, the question  
24 came up on how do you determine if you've got the  
25 material into the, you know, you have source material

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1 left over, you have material left over at the end and  
2 the vendors have come up with some radiation detection  
3 devices that they measure certain distance around the  
4 four sides of the delivery system, and we allow that  
5 to be used.

6 DR. WILLIAMSON: Here's where your  
7 proposed guidance, on Page 2 of 7, for Y-90  
8 microspheres prescribed dose means the total dose  
9 documented in the written directive.

10 And somewhere in here you made reference  
11 to how it was specified by the --

12 DR. NAG: I think the first thing that we  
13 are asking is that some of us may have some idea what  
14 Sirtex is, what TheraSphere is. And others may have  
15 absolutely no idea.

16 Now we cannot give you any knowledgeable  
17 guidance if we have no idea what it is. So if you  
18 have any information on what that product is, and I  
19 mean, I know all of these, something, they do have a  
20 brochure that they have sent out. I have it at home.  
21 Just, I mean, give us those handouts.

22 MS. SCHWARZ: These are the ones that I  
23 mentioned here in your slides.

24 DR. HOWE: A lot of the information we  
25 have is from direct communications with the

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1 manufacturers on how their product works, etcetera.  
2 And so we don't --

3 DR. NAG: They didn't give you those  
4 handouts? Normally, I think, I get, we are consumers  
5 so they send it to us. We have it.

6 DR. HOWE: We don't necessarily have all  
7 the labeling that goes with it. In some cases we have  
8 the labeling that was submitted with the premarket  
9 approval applications, that have since been updated.

10 I mean we try to stay current with what  
11 they're doing by talking to the manufacturers, but I  
12 don't believe we've tied anybody to the package  
13 insert. We tie it to the written directive, but  
14 that's, that's not the same as a package insert.  
15 That's the NRC written directive.

16 DR. WILLIAMSON: Oh, I understand the  
17 difference.

18 DR. HOWE: Yeah.

19 DR. NAG: They didn't give you a three or  
20 four page thing about what, you know, and what the,  
21 and how it is --

22 DR. HOWE: We have some documentation on  
23 that, but we don't necessarily have the most recent  
24 stuff that the manufacturer has.

25 DR. NAG: It doesn't have to be most

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1 recent. It has to be something that says what it is  
2 and how, what are the safety problems and how the  
3 manufacturer addressed the safety problem. I know  
4 they do have that in their handout.

5 CHAIRMAN CERQUEIRA: So you would like  
6 that material tomorrow?

7 DR. NAG: If you have it.

8 CHAIRMAN CERQUEIRA: If you can find it.

9 DR. HOWE: We'll try.

10 CHAIRMAN CERQUEIRA: If you can get  
11 copies, that would be fine. If you can't, I think we  
12 can go on. If the manufacturers were here, they  
13 probably would have it.

14 MS. MCBURNEY: For our initial charge for  
15 the subcommittee is just limited to the IBB, the Y-90  
16 microspheres and the GliaSite. And part of what I  
17 would like to get input from the subcommittee on is  
18 the training experience.

19 What sort of physician training? How much  
20 vendor training? If there's to be a team approach,  
21 what's the team to be comprised of? Presence and  
22 duties of the team members, and the written directive  
23 content.

24 DR. NAG: And what time, what time do we  
25 have for the subcommittee to meet? Are we going to

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1 meet separately or --

2 MS. MCBURNEY: It's at the end of  
3 tomorrow. It's like from 3:00 --

4 DR. WILLIAMSON: I think another issue  
5 we'll have to take on with all these specialized  
6 devices is to what extent is NRC going to step in and,  
7 you know, basically, impose upon users the requirement  
8 to follow exactly the product insert or the, you know,  
9 and so forth.

10 For example, in intervascular  
11 brachytherapy they limited the indications that are  
12 allowed under NRC licensing guidance to in-stent  
13 restenosis.

14 DR. HOWE: That was originally. We're now  
15 a much broader authorization. It's for intravascular  
16 brachytherapy use.

17 DR. DIAMOND: But we had a guidance  
18 document issued, oh, it's been over a year now, that  
19 clarified the issue that no longer would it be  
20 construed that an off-label use of one of these  
21 devices would be considered a misadministration.

22 So, for example, at our institution, we  
23 routinely will go and use vascular brachytherapy for  
24 in-stent restenosis in the peripheral arterial system.  
25 We've done saphenous vein grafts.

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1                   We've done brachycephalic arteries,  
2                   arterial venous fistulas, the whole works, following  
3                   that guidance released over a year ago.

4                   CHAIRMAN CERQUEIRA: Yeah, that's good.  
5                   But this is going to be on tomorrow's agenda. And you  
6                   know, it's ten to six, we really kind of need to wrap  
7                   up the Commissioner's Briefing and not go over all of  
8                   these points tomorrow.

9                   So that would take, right. And then, you  
10                  know, we can see what, some of your things, and then  
11                  it sounds like the SNM is going to be here and so  
12                  there's going to be quite a bit of a --

13                  MS. MCBURNEY: And ASTRO and some of the  
14                  others.

15                  DR. WILLIAMSON: Perhaps, it will not be  
16                  possible for you to make a good outline of slides  
17                  until after tomorrow. You know, it's very speculative  
18                  what the major issues would be.

19                  CHAIRMAN CERQUEIRA: And I think you have  
20                  to be aware that, you know, we want to get them to the  
21                  Commissioners, but at the same time some of these  
22                  issues are only going to be discussed today and  
23                  tomorrow and, okay.

24                  And, Dick, do you want to go over the T  
25                  and E recommendation.

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1 DR. VETTER: Sure. T and E. The purpose  
2 of this was simply to bring the Commission up-to-date  
3 on the ACMUI T and E recommendations. The first thing  
4 I want to do is express to them our appreciation for  
5 the opportunity to address T and E issues through an  
6 ACMUI subcommittee mechanism.

7 The, Slide 2, Page 2, shows that we still  
8 do, we have the old method for becoming an authorized  
9 RSO, AMP, nuclear pharmacist or authorized user. It's  
10 through the old Subpart J, but this is very temporary.

11 You know, this was not very prescriptive.  
12 Certification by Boards on a list or meeting some  
13 specific training requirements. The revised 10 CFR  
14 35.50, was very prescriptive requiring Boards to  
15 incorporate into their qualifications very  
16 prescriptive training requirements.

17 ACMUI had a problem with this because it  
18 created some unintended consequences. There was only  
19 one Board, out of the many Boards in the country, that  
20 met these requirements.

21 None of the others met the requirements  
22 which resulted in an increased burden on NRC staff to  
23 look at the alternate pathway qualifications for  
24 everyone who wanted to become any one of these  
25 authorized individuals.

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1                   We     felt     it     marginalized     Board  
2     certification and it undermined and affected industry  
3     standard.   Consequently, the ACMUI called this to the  
4     Commission's attention in February of '02, appointed  
5     a subcommittee that same month who's charge was to  
6     develop a proposal establishing Board certification as  
7     the default pathway.

8                   DR. WILLIAMSON:   But they know all this.  
9     So, do we want to spend all this time going over the  
10    history?   Because they're the ones who have thrown the  
11    ball back in our courts now.

12                  DR. VETTER:   Well, that's what the, you,  
13    let me finish and you can tell me.   So far, how much  
14    time have I used?   Okay, ACMUI subcommittee then held  
15    a public meeting, they held two public meetings.

16                  Made recommendations to NRC in August of  
17    last year.   Options made for October 30th.   The  
18    Commission made their decision on February 12th.   The  
19    Commission decided to accept the recommendation of the  
20    ACMUI to allow Boards to certify these authorized  
21    individuals rather broadly, rather than requiring  
22    Boards   to   incorporate   various   prescriptive  
23    requirements for recognized individuals.

24                  However, the Commission did re-institute,  
25    against the ACMUI's recommendation, the preceptor

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1 certification. The impact of that decision is that  
2 default pathway through professional Boards has been  
3 re-established as was currently present in the  
4 temporary Subpart J.

5 And this will now allow many Boards to  
6 certify individuals who will meet the requirements for  
7 the various responsibilities in Part 35. However, it  
8 does not, it does create the problem relative to  
9 preceptor requirements.

10 What I'd like to say about that is, ACMUI  
11 is very happy to work with the NRC staff to resolve  
12 satisfactory implementation of it. And that's the end  
13 of the story. What did I leave out, that you think I  
14 should be --

15 DR. WILLIAMSON: Well, I think, you know,  
16 the residual issues that are of importance is if the  
17 preceptor requirement is left in as a Board  
18 qualification criteria --

19 DR. VETTER: I'm not going to say that.

20 DR. WILLIAMSON: Yeah, but that's a  
21 problem. None of the Boards will probably comply with  
22 that because they don't require the people who sign  
23 off on the diplomates to be authorized users or  
24 authorized medical physicists on licenses and so on.

25 That's a little different kind of world.

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1 And so I think to comment that that's one problem we  
2 have to resolve. You know, a second problem that was  
3 raised is the C-3, the 190, no, the 100, 200 and 300  
4 categories still mention hours of combined didactic  
5 and practical experience with, you know, sort of an  
6 outline of what that's supposed to consist of.

7 And then we have to determine, you know,  
8 whether the ABR diagnostic radiology and the various  
9 nuclear medicine Boards satisfy that requirement.

10 So it might be necessary to fine tune  
11 these. Maybe we don't want to say that to them. I  
12 don't know what's wise and prudent to say to them.  
13 But that's the issue. That's what really has to be  
14 done. Is we have to really --

15 CHAIRMAN CERQUEIRA: Let's go back and try  
16 to deal with each one of those. Because, you know,  
17 the thing with the preceptor statement, we had put in  
18 pretty strong recommendations to take that out, but it  
19 came back as in there.

20 And the reason we had put this in, in the  
21 beginning, Jeff, was, you know, this whole, we wanted  
22 to put some bite into that preceptor statement so that  
23 the NRC didn't have to assume the responsibility.

24 And that's why we put it in originally.  
25 And I think the NRC, at this point, is quite willing

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1 to let the Board, you know, it's not a competency,  
2 it's mastery of the body of knowledge for clinical,  
3 which is what we tried to make.

4 You know, the ABR tried to make and I  
5 think Roger's committee, to some extent, was going in  
6 that direction. But it seems like what Roger  
7 presented today was, you know, a shifting of what this  
8 consists of.

9 DR. WILLIAMSON: He's now in the room.

10 CHAIRMAN CERQUEIRA: Well, I'm not going  
11 to say anything nasty.

12 DR. WILLIAMSON: The CRM says preceptor  
13 requirement has to be there, okay. And the only way  
14 to eliminate that as a requirement is to make a pitch  
15 to the Commission to change their SRM.

16 Now, I don't know if that's wise or  
17 prudent to go after that because it was a three to two  
18 vote. I think maybe to point out that it's a problem  
19 and that, you know, we'll accommodate it, you know,  
20 probably by rewriting the logic of the rule.

21 One, you know, there are some other  
22 solutions that I think would keep Board certification  
23 as an important component.

24 CHAIRMAN CERQUEIRA: And it wasn't clear  
25 to me by how we were going to do that as a result of

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1 today's discussion. There was this mention made that  
2 we could define it as, you know, this competency was  
3 mastery of a body of knowledge that can be --

4 DR. WILLIAMSON: That's a different issue,  
5 actually. That's a different issue, yes.

6 DR. NAG: That's a different issue. The  
7 word competency versus having mastery --

8 CHAIRMAN CERQUEIRA: But isn't that in the  
9 preceptor statement?

10 DR. WILLIAMSON: No. That's not in,  
11 that's in the purpose of the exam. We specified that  
12 one of the required components of a recognized Board  
13 certification process is that it has an exam that  
14 tests the competency of the x, y, z to, you know, do  
15 a, b, c.

16 So, you know, it was recommended that we  
17 have to change that, and it sounds like that can be  
18 done without running afoul of the Commission's SRM.  
19 But this issue of the preceptor is sort of a hard  
20 constraint as far as the staff is concerned.

21 You know, they can't change that and make  
22 that go away. The only people that can make that go  
23 away are the Commissioners. So, you know, I think  
24 that a --

25 CHAIRMAN CERQUEIRA: So what do we tell

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1       them? We already told them the first time.

2               DR. WILLIAMSON: Well, I think we tell  
3       them that, you know, this could potentially pose a  
4       problem, but that we'll look at taking it out of the  
5       requirements for Board certification process and  
6       sticking it in as an additional requirement at the  
7       end, along with the modality-specific training.

8               That would be a logic solution. So then  
9       --

10              DR. DIAMOND: So, Jeff, when they ask why,  
11       how do you respond?

12              DR. VETTER: I would recommend we not  
13       propose any specific mechanism for taking care of that  
14       at the Commissioner level. That we simply say we are  
15       happy to work with the staff to accommodate that. And  
16       leave it wide open.

17              CHAIRMAN CERQUEIRA: Given their short  
18       time line of July 1st, of getting it back to the  
19       Commissioners and, you know, that puts a certain  
20       amount of motivation to get it done.

21              DR. WILLIAMSON: Well, you see, I think  
22       it's an issue of strategy. If we felt that this would  
23       destroy the proposal. Okay, to have the preceptor  
24       requirement would mean that no Boards could qualify as  
25       being recognized by NRC.

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1 We'd be back where we started, wouldn't  
2 we? But, I think maybe there are some possibilities.

3 MS. MCBURNEY: Are most, are most Program  
4 Directors not authorized users?

5 DR. EGGLI: Most Program Directors are not  
6 authorized users.

7 CHAIRMAN CERQUEIRA: Right. Certainly  
8 that's true in cardiology.

9 DR. EGGLI: For diagnostic radiology  
10 residence use, most Program Directors are not  
11 authorized users. For diagnostic radiology residency  
12 it would be rare for the Program Director to be an  
13 authorized user.

14 For a nuclear medicine residency, it would  
15 be very likely that the Program Director was an  
16 authorized user.

17 DR. NAG: In therapy they could be or --

18 DR. EGGLI: Or could not be, yeah.

19 CHAIRMAN CERQUEIRA: Right. So what do we  
20 want Richard to say to them?

21 DR. WILLIAMSON: Well, that's why I'm  
22 bringing the issue because what we say to them really  
23 depends on our perception of how we can accommodate  
24 this requirement without destroying the integrity of  
25 Board certification.'

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1                   That's why I'm bringing it to your  
2                   attention.

3                   CHAIRMAN CERQUEIRA: So how do we do that,  
4                   Tom?

5                   DR. NAG: I think we can --

6                   CHAIRMAN CERQUEIRA: No, let's get from  
7                   Tom. Tom, how do we do that? Based on your, you  
8                   know, intimate contact with the --

9                   DR. WILLIAMSON: Okay, I think that Rich,  
10                  that Dick should have a phone conference, a telephone  
11                  conversation with Roger or whoever and determine  
12                  whether it's feasible to, you know --

13                  CHAIRMAN CERQUEIRA: Roger is right here.

14                  DR. WILLIAMSON: -- yeah, to stick this  
15                  outside of the Board qualification section.

16                  CHAIRMAN CERQUEIRA: Roger, why don't you  
17                  come forward while we have you here.

18                  DR. BROSEUS: Well, be nice to me.

19                  DR. WILLIAMSON: You know, anything that's  
20                  really, really, yeah.

21                  DR. BROSEUS: -- a couple of weeks ago,  
22                  she said be prepared to duck. And I didn't understand  
23                  what he meant.

24                  DR. VETTER: At least he didn't say "die".

25                  CHAIRMAN CERQUEIRA: So what strategy do

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1 we take? I mean, with the issue of, you know, the  
2 preceptor?

3 DR. BROSEUS: Let me tell you where the  
4 working group is right now. First of all, to interpret  
5 in the supplementary information, the meaning of  
6 competency as being training and not being clinical  
7 competency.

8 Okay, that's number one. Now number two,  
9 the way we read things, in the SRM and so on, is the  
10 Commission said don't change the preceptor statement  
11 and certification by an authorized user is basically  
12 a requirement as we read this.

13 So, what are the alternatives? That's  
14 what I hear being discussed. One alternative might  
15 be, you know, once this rule goes out, it isn't  
16 decided. It's at the proposed rule stage, and so  
17 there are other alternatives during the proposed rule  
18 stage, for comments to come in, you know.

19 And if the staff sees good arguments. I'm  
20 speaking now for myself as the working team member,  
21 not having had this good before management, but I  
22 think that this is a fairly valid statement.

23 If we see good reasoning coming in, maybe  
24 even as a result of our discussions with Dick and so  
25 on and you, you know, we may put that into the

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1 supplementary information or the discussions of where  
2 we are with getting to the proposed rule. So I think  
3 there are several ways to skin the cat.

4 DR. DIAMOND: Like what?

5 DR. BROSEUS: Like what I just said, and  
6 I guess I wasn't clear. And that being that --

7 DR. WILLIAMSON: What's supplementary  
8 information?

9 DR. BROSEUS: Well, we'll have, there will  
10 be, there will be, I'll call preamble, front matter  
11 before the proposed rule language, which is the  
12 discussion of how, the rationale for the what the  
13 proposed is.

14 And if we get additional information at  
15 this point, I think it might be possible to say at the  
16 proposed rule stage that ACMUI or others have said,  
17 you know, a Program Director might be the more  
18 appropriate person to do this certification.

19 And so offer that as an alternative.  
20 Offer it for public comment, and possibly go to the  
21 Commission with that. That's my understanding of the  
22 rule making process.

23 DR. NAG: Why can't we do that now? Why  
24 can't we go to the Commission now and say, you know,  
25 the discussion here has led to the suggestion that the

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1 Program Director is the most appropriate person? I  
2 mean we have already made those comments.

3 DR. BROSEUS: I would expect that there is  
4 certainly an alternative, but things move slowly. You  
5 also have new Commissioners, so the makeup of the  
6 Commission isn't the same.

7 MR. LIETO: Can I make just a couple of  
8 points. And this also refers to one of Dick's slides  
9 also. Preceptors don't certify, okay. And I thought  
10 we kind of had that, made that point. So, I mean,  
11 again, I don't know if it's an old terminology that  
12 kind of has come back or whatever, because this was  
13 like in the proposed comments where, that this issue,  
14 this specific issue came up.

15 Preceptors don't certify, okay. I mean  
16 they never can and they never will. So, again, it may  
17 be semantics, but it gets to this whole issue also  
18 about the competency issue too, okay.

19 That, I think that, and I would like to  
20 again make the recommendation, that competency go into  
21 like a definition to Part 35, okay. I know that  
22 they're talking about putting it in the preceptor  
23 statement, okay.

24 The preceptor statements can change from  
25 one administration to the next. And I think that it

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1 really needs to go in the definition of the rule, as  
2 to what they are testing the competency of.

3 Okay, which is the issue that you've  
4 already covered.

5 CHAIRMAN CERQUEIRA: I'm totally confused  
6 on this now. I thought I understood it, you know.

7 DR. BROSEUS: I've heard two different  
8 issues. One is what does competency mean, and the  
9 other one is, does it have to be signed by an  
10 authorized user or can it be a Program Director?

11 DR. WILLIAMSON: Those are the two issues,  
12 but is there enough wiggle room in what the Commission  
13 said in their SRM that competency can be redefined as  
14 mastery of knowledge and body of skill?

15 DR. BROSEUS: Not anymore.

16 CHAIRMAN CERQUEIRA: See, it was my  
17 understanding that the competency thing was strictly  
18 in the preceptor statement. Now Jeff is telling me  
19 that that's been put back into the Board. And I, you  
20 know, and again, this thing is hard to read.

21 You know, first off, the pages are flipped  
22 and everything else, but, you know, if I'm confused,  
23 and I'm the Chairman, and I, you know.

24 DR. BROSEUS: I don't blame you for being  
25 confused, there's a lot --

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1 CHAIRMAN CERQUEIRA: Well, no, no, no, no,  
2 no. But thing is, I thought we were on track. I mean  
3 those of us who have been involved in the process,  
4 there was a certain logic and flow to things. And I  
5 thought that was included in Dick's proposal. But now  
6 it's just kind of come out all --

7 DR. BROSEUS: We have identified really a  
8 third issue. And that is that -- sorry, I'm not close  
9 enough to the mic, thank you. As I understand it,  
10 that ACMUI's intent was not to have a preceptor  
11 statement as part of the qualifications, the criteria  
12 for recognizing a Board certification process.

13 CHAIRMAN CERQUEIRA: I thought that was in  
14 the revision of Part 35, and did we take it out  
15 completely from your, the original?

16 DR. WILLIAMSON: No, no. We put it back  
17 in as a Program Director's testament.

18 CHAIRMAN CERQUEIRA: Right, and then it  
19 was sent back to us as, you know, as you need it to  
20 certify competency.

21 DR. WILLIAMSON: That's correct.

22 CHAIRMAN CERQUEIRA: But that was in the  
23 preceptor statement.

24 DR. WILLIAMSON: Yeah, well, I think that  
25 there were, you know, multiple issues here. If you

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1 look at, for example, the physicist one here. I'm  
2 trying to find it, on what page it is.

3 DR. EGGLI: Well, should I read  
4 Commissioner Meserve's comment in that regard?

5 DR. WILLIAMSON: Well, let me just find  
6 the section here under authorized medical physicist.  
7 Okay, it says --

8 CHAIRMAN CERQUEIRA: See, but this applies  
9 to the health, you know, to the medical physicist, to  
10 the authorized user.

11 DR. WILLIAMSON: Here. Passes an  
12 examination administered by diplomates of the  
13 specialty Board which assess knowledge and competency  
14 in clinical radiation oncology.

15 And so this was the concern that this is  
16 not what the ABR and other organizations bill their  
17 exams as about. So, you know, I think a third issue,  
18 if you want to call it that, is to strike the  
19 competency word out of the section describing the  
20 Board examination, because otherwise it's making the  
21 Board squeamish about --

22 DR. BROSEUS: Is that in the, I don't have  
23 the stuff --

24 DR. WILLIAMSON: This is in your draft  
25 rule text, and it was in our draft rule text as well.

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1 So this is a correction. I would have thought maybe  
2 this is relatively minor since, you know, perhaps the  
3 Commission didn't pick on this particular point.

4 DR. BROSEUS: Well, in my reading, if it's  
5 in what the exam does, that's certainly within the  
6 purview of ACMUI to change its mind.

7 DR. WILLIAMSON: Okay, so we can fix that.

8 CHAIRMAN CERQUEIRA: So we can recommend  
9 that instead of competency, as documented by being a  
10 diplomate or passing the Board, that that be changed  
11 to represent mastery of a body of knowledge sufficient  
12 to, you know, in a clinical setting, which is what I  
13 think Dr. Hendee had said.

14 So is everybody in agreement with that?

15 DR. WILLIAMSON: I think so.

16 CHAIRMAN CERQUEIRA: And that's, again,  
17 that's passing the Board. Now, just in terms of the  
18 Boards alone, what are we doing about hours? Did the  
19 Commissioners, were they willing to take that out?

20 Because I thought, I thought your proposal  
21 that went through, certainly for the user, had hours.  
22 It does.

23 DR. VETTER: That is not our proposal.  
24 That's --

25 DR. EGGLI: No, but is the final revision.

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1 CHAIRMAN CERQUEIRA: You know, I mean, so  
2 --

3 MS. SCHWARZ: In the book there is a  
4 section where the actual original that you compiled.  
5 In the book that we received there is the listing as  
6 Dick wrote it. But this is different.

7 DR. BROSEUS: Well, first of all, my  
8 reading of that recommendation were for a certain  
9 pathways to reference what was in the oral --

10 DR. WILLIAMSON: And we did that, that's  
11 correct.

12 DR. BROSEUS: And that included hours.

13 DR. WILLIAMSON: That's right. It did.

14 CHAIRMAN CERQUEIRA: But the hours were  
15 included as part of the alternative pathway.

16 DR. WILLIAMSON: No, that's not correct,  
17 Manny. No, no, no, no. For 100, 200 and 300 we left  
18 in, I think, 700 hours or whatever. Some number of  
19 hours. And we said, we didn't specify the breakdown  
20 between didactic and practical, but we said it had to  
21 be didactic plus practical and enumerated the various  
22 things it must include and this was just lifted out of  
23 Subpart J.

24 DR. BROSEUS: Now let me add something to  
25 that. My understanding of what training programs

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1 somebody has to go through, being at 700 hours is duck  
2 soup.

3 DR. WILLIAMSON: Yeah.

4 DR. BROSEUS: And so to me, since it  
5 doesn't specify it has to 40 hours, 60 hours there,  
6 and so on, it's not a big deal.

7 DR. WILLIAMSON: So, anyway, I think that  
8 this requires some discussion with the ABR to find  
9 out, you know, if this is reasonable. But I would  
10 have thought --

11 CHAIRMAN CERQUEIRA: Well, but the ABR is  
12 not the only Board. We have, you know, for the  
13 physicists we have Boards, for the physicians and for  
14 the health physicists.

15 DR. WILLIAMSON: Well, this only applies  
16 to 100, 200, 300, for the physics Boards, for the  
17 Radiation Safety Officer and for the authorized user  
18 of sealed sources, we eliminated the hours all  
19 together. That is true.

20 MEMBER BROSEUS: I would recommend that  
21 this particular issue be kind of tabled a little bit  
22 and be discussed again when we're looking at  
23 fine-tuning the words when we have our discussion  
24 later on.

25 CHAIRMAN CERQUEIRA: But if this is due

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1 July 1st, we don't have that much time. And if we  
2 have to meet with the commissioners next week, we have  
3 to make some decision on what we feel the important  
4 points are going to be so that Dick can make his  
5 slides.

6 Mike has been waiting.

7 MR. MARKLEY: I think I have an approach  
8 that you might want to consider. There at the draft  
9 rule stage, if you have continuing concerns, it would  
10 be very easy to itemize what those are.

11 And I think a good point that you could  
12 deliver to the Commission would be, "We would like the  
13 staff to explicitly solicit public comments on these  
14 issues during the comment period." You could provide  
15 them in the Federal Register notice and ask for that  
16 kind of feedback.

17 CHAIRMAN CERQUEIRA: But, see, part of the  
18 reason to move this forward was that we implemented a  
19 rule which becomes in all the agreement states in  
20 October 2005. We then put in this ability for people  
21 to meet the criteria by both the new rule as well as  
22 the old part 35.

23 And so in order to avoid in October of  
24 2005 potential problems, we wanted to get this  
25 revision of training and experience rulemaking done in

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1 time to be implemented.

2 In order to do that, we had to keep it on  
3 track. And if we wait for public comments and  
4 everything else, we're not going to be able to do  
5 that. That may be the only option we have, but if  
6 that's the case, we have to agree on that.

7 What I would like to try to do is salvage  
8 it in some way possible if we can work with Roger and  
9 his group to wordsmith the language so that everybody  
10 is in agreement, but then we also need to make a  
11 presentation to the commissioners to try to get their  
12 buy in as much as possible. And that's on the 28th.

13 So those are the issues as I see it. Now,  
14 if we can address those, then I think we can be done.

15 MEMBER BROSEUS: Just let me add that  
16 during the board presentations this morning, our  
17 discussions, I don't think this issue coming up was a  
18 concern.

19 MEMBER WILLIAMSON: It was point number  
20 one of Dr. Hendee's.

21 CHAIRMAN CERQUEIRA: To take out the  
22 hours. He was confused about it.

23 MEMBER WILLIAMSON: No. We were confused  
24 in our answer. There are hours in some of our --

25 CHAIRMAN CERQUEIRA: There are.

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1 MEMBER WILLIAMSON: Yes. And we said  
2 there weren't.

3 CHAIRMAN CERQUEIRA: Yes, there are.

4 MEMBER VETTER: As the alternative pathway  
5 and for --

6 MEMBER WILLIAMSON: No, no. That's not  
7 true.

8 CHAIRMAN CERQUEIRA: But doesn't it say  
9 that the board has as its requirements the hourly  
10 requirements --

11 MEMBER WILLIAMSON: It does. So read what  
12 we --

13 CHAIRMAN CERQUEIRA: So it's still tied  
14 into it.

15 MEMBER BROSEUS: I think that Dr. Hendee,  
16 though, expressed agreement with the approach that we  
17 were taking in the end.

18 CHAIRMAN CERQUEIRA: But he was the only  
19 one who made a presentation. He's one board. All  
20 right? And I represent the physicians. We have the  
21 physicists. Well, we don't have the physicists. We  
22 have the radiation safety officer.

23 MEMBER BROSEUS: Well, we had all of them  
24 --

25 CHAIRMAN CERQUEIRA: Right.

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1                   MEMBER NAG: Dr. Hendee made that on the  
2 basis that no hours --

3                   MEMBER WILLIAMSON: We were mistaken.

4                   MEMBER BROSEUS: We clarified in our  
5 meeting this morning, the meeting of the boards, that  
6 there were some sections in part 35 --

7                   CHAIRMAN CERQUEIRA: You've told him  
8 correctly. We mislead him. Okay? But that's not an  
9 issue. The issue was, what does this Committee want  
10 to do. You know, I think we had kept the hours in.  
11 Do we want to just take them out and say that the --

12                  MEMBER WILLIAMSON: Manny, could I just  
13 rephrase your question a little bit?

14                  CHAIRMAN CERQUEIRA: Okay.

15                  MEMBER WILLIAMSON: We don't need to  
16 decide what to take out or keep in at this point. I  
17 think the key decision we have to make is what  
18 questions require commissioner input.

19                         So if this is a small change that we could  
20 make in fine-tuning the rule language that doesn't run  
21 afoul of the main points of their SRM, we can just do  
22 it and we don't have to make a big deal next week.  
23 But I think the --

24                  CHAIRMAN CERQUEIRA: But the problem is we  
25 are not sure if that is the case.

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1 MEMBER WILLIAMSON: No, we're not.

2 MEMBER BROSEUS: And I'm not either.

3 MEMBER WILLIAMSON: Yes. So I think we'd  
4 better just mention it as an issue and not make a big  
5 deal about it.

6 MEMBER BROSEUS: At the same time, this  
7 gives us an opportunity to put the right spin on it  
8 before the commissioners that eventually have to buy  
9 it off. So it is an opportunity for us. And that's  
10 why --

11 MR. ESSIG: I wanted to come back to what  
12 you got from the Office of the Secretary emphasized in  
13 two places where it says ACMUI should provide some  
14 positive recommendations how the Committee feels it  
15 can assist the NRC staff.

16 In another place, it says, "How can the  
17 ACMUI help the NRC?" I think if you raised this  
18 particular issue, saying, you know, you respect the  
19 Commission's decision, and so it's caused us to have  
20 to do some things. And here's how we're going to help  
21 the staff make those things happen.

22 And so just present it in a way so the  
23 Commission clearly sees that you intend to make a  
24 contribution to help the staff; in other words, to  
25 provide the advice that the Committee is supposed to

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1 provide.

2 CHAIRMAN CERQUEIRA: But we should give  
3 them some indication of the direction we want it to  
4 go. I mean, that's putting a spin on it.

5 MEMBER WILLIAMSON: I think one issue is  
6 fairly clear that we can put a spin on it, and that's  
7 I think that we have to say, I think, that it's still  
8 our view that the issue of whether the person in the  
9 board certification process attesting to the  
10 candidate's readiness to sit for the exam has to be  
11 decoupled from this concept of preceptor as an  
12 authorized user or authorized medical physicist  
13 because that is not practical given the way these  
14 programs are structured.

15 It will be back at square one if we can't  
16 fix this. So we will work with -- the subcommittee  
17 will continue working with the staff to figure out how  
18 to preserve the integrity of the board certification  
19 structure in this process and try to take this into  
20 account. That's the best we can say.

21 MEMBER BROSEUS: Is that coupling  
22 necessary for anything other than authorized users,  
23 like AMPs or ANPs?

24 CHAIRMAN CERQUEIRA: That's how we got  
25 into this problem in the first place, was because most

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1 of the medical physicist programs, people didn't have  
2 to take all the requirements. I mean, they could  
3 dabble in one area or another. And we wanted to try  
4 to make it more specific.

5 MEMBER WILLIAMSON: The problem is that  
6 the boards do not require that the individuals  
7 attesting to the candidates' knowledge base or  
8 whatever, completion of the training program, whatever  
9 word is appropriate, need not comply with this  
10 additional requirement.

11 CHAIRMAN CERQUEIRA: So this side of the  
12 table has been fairly quiet. I mean, Ralph, how do we  
13 get out of this? What are we going to --

14 MEMBER WILLIAMSON: I don't think we know  
15 yet. I think we just --

16 MEMBER LIETO: I have already done my  
17 swimming with a lead preserver here. Really, I think  
18 that the way that Dick was going with stating that we  
19 need to work with staff to address the preceptor stage  
20 and now maybe we also need to simply add that we need  
21 to work with staff to address about the competency  
22 issue and just --

23 CHAIRMAN CERQUEIRA: So that's easy.  
24 Working with staff is just one of these general  
25 things. But we've got to give them so spin. Okay?

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1 Go ahead.

2 MEMBER LIETO: But I was going to say I am  
3 not too sure that you can totally get rid of the hours  
4 issue because for authorized users in the diagnostic  
5 modalities, especially, I believe, in cardiology,  
6 that's how a lot of them become authorized users. So  
7 we've got to be a little careful there.

8 With just that sort of in the back of our  
9 minds, I am still kind of sitting on the fence as to  
10 whether we really need to give them a spin. I don't  
11 know. There's still an issue. We need to come back  
12 to it. It may be coming back to you again. And we  
13 are all in agreement that we need to work on it, both  
14 staff --

15 CHAIRMAN CERQUEIRA: Authorized users.

16 MR. ESSIG: Well, Bob Ayres --

17 CHAIRMAN CERQUEIRA: Leon?

18 MEMBER MALMUD: I must say you lost me a  
19 long time ago. Now, what issue are we talking about?  
20 Are we talking about the certification for medical  
21 physicist or are we talking about physicist plus  
22 radiologist plus physician?

23 MEMBER NAG: Authorized users.

24 MEMBER MALMUD: Now, why are we grouping  
25 them all together? Why is a physicist the same as a

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1 physician the same as a radiotherapist the same as a  
2 nuclear physician? They are different. So why are we  
3 making one set of rules for everybody?

4 MEMBER NAG: There are different sets of  
5 rules.

6 MEMBER MALMUD: I beg your pardon?

7 MEMBER NAG: Each of them has different --

8 MEMBER MALMUD: I agree. I agree. All  
9 right. I'm just asking a question.

10 Now, Dr. Hendee said he had four issues,  
11 and he presented to us four issues. Those were his  
12 issues, meaning the American Board of Radiology's  
13 issues.

14 Is there anyone here at this table who  
15 thinks that the Nuclear Regulatory Commission is going  
16 to decommission the American boards of medical  
17 specialties? Does anyone think they're going to be  
18 that crazy and have every congressman in the United  
19 States going down the throat of the NRC? Do you think  
20 that your board is going to be decertified or my board  
21 or your board? Of course not. That's not the intent  
22 of the NRC to do that. They're not suicidal.

23 MEMBER WILLIAMSON: I wouldn't be so sure  
24 about that.

25 MEMBER MALMUD: Oh, I think, listen, we

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1 are all rational beings. And these gentlemen who are  
2 a part of the NRC are as smart as we are, if not  
3 smarter. They're not going to do something like that.  
4 No one wants to do anything like that.

5 So Dr. Hendee's question really touched on  
6 something that we should be addressing. He said, is  
7 the board certification adequate or must there be an  
8 alternatively specified number of hours of training?

9 Now, as far as I know, no one has  
10 challenged the board certification. Is the NRC  
11 challenging existing board certifications --

12 MEMBER WILLIAMSON: Yes.

13 MEMBER MALMUD: -- or the ability of the  
14 boards to certify?

15 MEMBER WILLIAMSON: Yes.

16 MEMBER MALMUD: You say yes. I'm asking  
17 the NRC subcommittee.

18 MEMBER BROSEUS: The NRC has set criteria  
19 by which the adequacy of certifications can be judged.

20 CHAIRMAN CERQUEIRA: On radiation safety  
21 --

22 MEMBER BROSEUS: Yes, radiation safety.

23 CHAIRMAN CERQUEIRA: -- alone, not  
24 clinical competency or all the other things, --

25 MEMBER BROSEUS: Yes, radiation safety.

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1 CHAIRMAN CERQUEIRA: -- that's the NRC's  
2 only concern, to make certain that if you're a  
3 radiologist, nuclear medicine physician, cardiologist,  
4 or medical physicist, you have picked up enough  
5 knowledge to be able to practice in a safe manner.  
6 Whether it's competent or not is not the issue.

7 MEMBER MALMUD: But the number of hours  
8 that they have required was 200 to 700. What was the  
9 number of hours? Does anybody remember the number?

10 CHAIRMAN CERQUEIRA: Training and  
11 experience was either 700 or 1,200 hours depending on  
12 whether you took it as a concurrent or whether it was  
13 simultaneous for the 500 hours lots.

14 MEMBER MALMUD: But that's training and  
15 experience. It doesn't say training and experience in  
16 medical physics, does it?

17 CHAIRMAN CERQUEIRA: That was really up to  
18 the authorized user, alternative pathway. I don't  
19 know for the physicists.

20 MEMBER MALMUD: We haven't gotten --

21 MEMBER VETTER: Seven hundred hours.  
22 Seven hundred hours total in categories of radiation  
23 physics and instrumentation, radiation protection,  
24 mathematics for training, use, and measurement of  
25 radioactivity, chemistry, radiation biology.

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1           MEMBER MALMUD: The minimum length of any  
2 board is 3 years, which is 6,000 hours. Two thousand  
3 hours a year times three is 6,000. So 700 hours in  
4 the 6,000 revolved --

5           MEMBER NAG: No, no, no. They are saying  
6 in medical physics and this. The board has a problem  
7 in certifying that we have given you 500 or 700 hours  
8 of this basic thing. It includes a lot of other  
9 things.

10          MEMBER MALMUD: I think you said math in  
11 there as well, did you not?

12          MEMBER WILLIAMSON: Leon, the case is that  
13 the currently published training and experience  
14 requirements, basically all the boards were judged.  
15 The only one that passed muster was the American Board  
16 of Nuclear Cardiology. All the other boards, every  
17 single one fell short and was rejected.

18          MEMBER MALMUD: That's because the  
19 American Board of Nuclear Cardiology was designed  
20 specifically to meet the criteria that they  
21 anticipated might be imposed.

22          MEMBER WILLIAMSON: Correct.

23          MEMBER MALMUD: That did not decertify all  
24 of the other boards. If it did, then tomorrow there  
25 will be no one practicing any kind of radiology or

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1 radiation physics.

2 MEMBER WILLIAMSON: What do you mean by  
3 "decertify"?

4 MEMBER NAG: No, no. There are two  
5 different issues. One is your ability to practice  
6 medicine in the subspecialty of radiation oncology.  
7 The other is your ability to be an authorized user by  
8 the board certification pathway.

9 MEMBER WILLIAMSON: Okay.

10 MEMBER NAG: Those are two different  
11 things.

12 MEMBER MALMUD: No one is challenging  
13 one's ability to practice, only to be the authorized  
14 user?

15 MEMBER WILLIAMSON: That's correct.

16 MEMBER NAG: Authorized user using the  
17 board certification pathway.

18 MEMBER MALMUD: As a means or an  
19 alternative --

20 CHAIRMAN CERQUEIRA: Or a radiation safety  
21 officer or medical physicist.

22 MEMBER WILLIAMSON: That's correct.

23 MEMBER MALMUD: Or an alternate number of  
24 hours in lieu of board certification.

25 MEMBER NAG: No. It might require all

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1       that number of hours. That is why the board gave  
2       certified --

3               MEMBER BROSEUS: While we're talking about  
4       hours, ACMUI didn't write their draft for some areas  
5       as requiring hours. It's only certain ones.

6               MEMBER WILLIAMSON: Yes, that's right.

7               MEMBER BROSEUS: So it's irrelevant when  
8       we're talking about RSOs. And I can't remember  
9       everything.

10              MEMBER MALMUD: What's irrelevant? I'm  
11       sorry. I didn't hear you.

12              MEMBER BROSEUS: The hours issue is  
13       irrelevant for RSOs and other categories. It's only  
14       relevant, really, as I recall, for authorized users,  
15       user categories. Okay? So it's not an issue except  
16       in that area.

17              MEMBER MALMUD: So it only relates to the  
18       ability to be an authorized user?

19              MEMBER BROSEUS: As I recall.

20              MEMBER MALMUD: It does not relate to  
21       training --

22              MEMBER BROSEUS: Well, I came in here to  
23       sit --

24              CHAIRMAN CERQUEIRA: But it does because  
25       I know the radiochemists are a group that we haven't

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1       talked about.       And they had like a 700-hour  
2       requirement.

3                   MEMBER McBURNEY:   Sally knows.

4                   MEMBER MALMUD:     You mean they have a  
5       training requirement in their own program?

6                   CHAIRMAN CERQUEIRA:   Right.

7                   MEMBER MALMUD:   Well, that's okay.  No one  
8       has imposed it upon them.  They have decided to do it  
9       themselves.  So do I understand, therefore, that the  
10      question is just the number of hours required to be an  
11      authorized user?  It has nothing to do with board  
12      certification except that board certification is the  
13      means to become an authorized user if you have the  
14      requisite number of hours?

15                  CHAIRMAN    CERQUEIRA:        Again,    the  
16      certification group of cardiology applied, met the  
17      criteria, and they had hours that were put in there.

18                  MEMBER MALMUD:   How many hours are put  
19      into nuclear cardiology requirements?

20                  CHAIRMAN CERQUEIRA:   Seven hundred.

21                  MEMBER MALMUD:   Seven hundred?  Over how  
22      many years?

23                  CHAIRMAN CERQUEIRA:  A three-year training  
24      program.

25                  MEMBER MALMUD:   Three.

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1           MEMBER VETTER: I think we are diverging.  
2       I would like to suggest -- and you can all send me  
3       hate mail if you don't like this. I would like to  
4       suggest that what I will tell the Commission, I will  
5       try to keep this in broad terms, but what I will  
6       report to the Commission is that we are happy with  
7       their response reestablishing professional boards as  
8       the default pathway. We will accept the fact that  
9       boards will be listed on the Web site.

10           The preceptor attestation -- I'll change  
11       that word -- attestation is something that we  
12       originally that we did not recommend be included in  
13       the process for board certification, but we will on  
14       that issue work with NRC staff to resolve that issue.

15           And relative to -- let's see. Relative to  
16       the issue of preceptor, well, that's all I'll say  
17       about it because that involves a couple of issues.  
18       One is the board side, and the other is whether it's  
19       authorized user or program director. I think we can  
20       work with the staff on that as well.

21           MEMBER NAG: The other question, do you  
22       want to say anything about having a body of knowledge?

23           MEMBER VETTER: No.

24           CHAIRMAN CERQUEIRA: What was the word you  
25       used?

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1 MEMBER VETTER: Attestation, preceptor  
2 attestation.

3 CHAIRMAN CERQUEIRA: Yes. I think, look,  
4 we're not going to come to any conclusions. To go  
5 forward with the right recommendations and the right  
6 spin, we will have to work with the staff. And I  
7 think that is a very good political compromise.

8 I'm sure the commissioners may have some  
9 questions that they want to bring up.

10 MEMBER McBURNEY: I think that we'll have  
11 questions.

12 MR. ESSIG: One of the purposes of  
13 submitting the slides in advance is because they  
14 review them, they have their staffs review them, and  
15 it helps prepare the commissioner for when they sit  
16 down at the table, then they have some questions in  
17 advance on their presentation. So that's why we have  
18 talked about getting --

19 MEMBER WILLIAMSON: So I think a really,  
20 really --

21 CHAIRMAN CERQUEIRA: No, no, no. Dick, go  
22 ahead.

23 MEMBER VETTER: One more question. A  
24 comment was made about all of this history. Should I  
25 pare that down?

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1 CHAIRMAN CERQUEIRA: Yes, yes. You know,  
2 again, you've got like ten minutes. So if you do like  
3 a three or four-minute presentation at most, which  
4 that will give enough time for questions for issues  
5 that they feel are important.

6 And, again, I think as a result of  
7 tomorrow's discussions, we will know a little bit  
8 better what to do with some of these things, I guess,  
9 although that is only going to deal with the one --

10 MEMBER MALMUD: I'd give history as a  
11 document but not actually present it because I thought  
12 it was very lucid.

13 MEMBER VETTER: We could do that as backup  
14 slides.

15 MEMBER MALMUD: Yes.

16 MEMBER VETTER: Right. Okay.

17 CHAIRMAN CERQUEIRA: Excellent.

18 MEMBER WILLIAMSON: Although they poked  
19 fun of my extensive backup slides once when I did  
20 that.

21 CHAIRMAN CERQUEIRA: We've come around to  
22 your way of thinking on this.

23 MEMBER WILLIAMSON: I think in general, a  
24 very careful review of that SRM and the residual  
25 issues, just identifying them, that we think are

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1 important and pointing out the issues and, as Dick  
2 said, we'll work with the staff to try to resolve  
3 them. And I think mainly that is what they would like  
4 to hear, probably our response to their SRM. They  
5 have thrown the ball in our court now.

6 MEMBER VETTER: I think so.

7 CHAIRMAN CERQUEIRA: And we talked about  
8 it during the open meeting, but what I would like to  
9 do is maybe Dick -- were you involved in the therapy  
10 writing or was that David Diamond?

11 MEMBER WILLIAMSON: I wrote most of the  
12 therapy ones.

13 CHAIRMAN CERQUEIRA: All right. So maybe  
14 the two of you and I could talk to Roger and sort of  
15 try to -- because we're still all a little confused.  
16 We need to go back, look at the material, talk to  
17 Roger and his group to sort of give them some advice.

18 And then we're going to have this meeting  
19 or conference call of the subcommittee. Hopefully by  
20 that time, a lot of these things will be worked out  
21 because that has to be an announced public meeting,  
22 which means it is going to be in two weeks, the  
23 soonest.

24 And then hopefully from that, we will be  
25 able to get a recommendation or an agreement with

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1 staff and the subcommittee which we can then send out  
2 to the full ACMUI Committee with the hope and  
3 intention of trying to meet the July 1st deadline.  
4 Right?

5 MEMBER BROSEUS: The idea was to reconcile  
6 what we could and distribute to the agreement states  
7 and to the ACMUI Committee.

8 CHAIRMAN CERQUEIRA: And to the Committee.  
9 That's fine. That's great. Excellent. I would like  
10 to thank everybody --

11 MR. ESSIG: Could I mention one quick item  
12 while we are still in the closed session, which is the  
13 comment earlier or, actually, the presentation from  
14 SNM on the therapy guide.

15 We have no plans. The NRC staff has no  
16 plans to review that. We have been asked to review  
17 it. We do not plan to review it. Meaning no  
18 disrespect to anyone in the room, but the SNM part of  
19 the therapy scene is a pretty kind of minority player.

20 CHAIRMAN CERQUEIRA: Yes. That's why I  
21 brought it up.

22 MR. ESSIG: So we have just finished  
23 NUREG-1556, Volume 9. The ink is sort of dry on it.  
24 Why would we undertake a review of some other guidance  
25 that is more or less contained in -- people may not

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1       like the way it is worded and all, but I just wanted  
2       to make that point clear.

3               Neither are we going to ask you as a group  
4       to undertake a review. If you are doing a review,  
5       it's --

6               MEMBER LIETO: I would definitely support  
7       that, that stance, Tom. I just kind of opened a  
8       couple of pages. There were some things that said,  
9       "Well, you should do this." I think for actual  
10      regulations, it said, "You must."

11              So if that is the kind of guidance that we  
12      may be running into, it may be more extensive than  
13      what we have time to do, especially if they're only  
14      giving us three weeks to give them a response, which  
15      I think is a little --

16              MR. ESSIG: And we also made reference  
17      today to the regulatory issues summary, where we  
18      stated that the SNM diagnostic was -- I don't want to  
19      say we endorsed, but we said it was an acceptable way.  
20      So you can read what we said about it.

21              CHAIRMAN CERQUEIRA: But you have to be  
22      careful whether your name is going to be linked to it.  
23      That's why I kept bringing up all these issues of, you  
24      know, your support. And you're going to assume some  
25      liability.

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1           It is something that's out there, but  
2       unless it's really been reviewed extensively by the  
3       NRC --

4           MR. ESSIG:     All we say is one key  
5       sentence, "The SNM's guide for diagnostic nuclear  
6       medicine provides information that may be useful to  
7       nuclear medicine professionals in understanding the  
8       applicability of NRC requirements for medical use of  
9       -- in diagnostic settings." That's part --

10          CHAIRMAN CERQUEIRA: And is the NRC still  
11       going to be on all of this?

12          MR. ESSIG:    I'll pass it out so you can  
13       see --

14          MEMBER LIETO: Will the NRC seal be on the  
15       document?

16          MR. ESSIG:    No, no, no.

17          MEMBER WILLIAMSON: I am sure your lawyers  
18       have looked at it.

19          MEMBER LIETO: The fact that you basically  
20       made it readily available through your Web site,  
21       whether you like it or not, you are endorsing it.

22          MEMBER NAG:    Implied perception.

23          MR. ESSIG:    But the RIS is also on the Web  
24       site, right next to the --

25          MEMBER BROSEUS: Let me just add one

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1 thing. We've gone through a crazy process to get the  
2 paper by and available. There's going to be a  
3 disclaimer on the inside cover of the document that's  
4 distributed in paper form. Okay?

5 CHAIRMAN CERQUEIRA: It may not be an  
6 endorsement, but if your name is on there, whether you  
7 intend it to or not, it's implied that you support  
8 this.

9 MEMBER WILLIAMSON: You must feel fairly  
10 comfortable with the procedures suggested within and  
11 --

12 MEMBER BROSEUS: Let me tell you just very  
13 quickly what we did do. The staff did review the  
14 document. And we looked closely to make sure that it  
15 was congruent with the rule and true to the rule.  
16 Okay? We didn't want somebody passing out bad  
17 guidance that the SNM says, you know, we weren't  
18 cooperative at all.

19 CHAIRMAN CERQUEIRA: Jeff does a good job,  
20 and he knows what he's doing. But Ralph said he went  
21 over through some of the therapeutic things and he had  
22 some questions and reservations. But Jeff wrote both  
23 of them, essentially.

24 MEMBER WILLIAMSON: So if you did it for  
25 diagnostic, why wouldn't you want to do it for

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1 therapeutic? Why wouldn't it be --

2 CHAIRMAN CERQUEIRA: Because of the risk  
3 involved.

4 MR. ESSIG: First of all, I think we  
5 considered the diagnostic procedures to be pretty  
6 low-risk. And so even if --

7 CHAIRMAN CERQUEIRA: Can we get that on  
8 record, low-risk?

9 MR. ESSIG: It's on the record because I  
10 -- no. I think it's primarily a resource issue that  
11 -- for us to review something where we have just  
12 promulgated guidance, NUREG 1556, Volume 9. And now  
13 to undertake -- we just don't have the resources to do  
14 a review of some additional guidance.

15 CHAIRMAN CERQUEIRA: But why not let it go  
16 out under SNM's --

17 MR. ESSIG: I can't control. I mean,  
18 they're going to issue it, a list of questions.

19 CHAIRMAN CERQUEIRA: Well, the diagnostics  
20 are already too late. It's on your Web site.

21 MR. ESSIG: Yes, yes.

22 CHAIRMAN CERQUEIRA: That would have been  
23 a more prudent way to go about it.

24 DR. HOWE: Before you leave, I have an  
25 issue that we had hoped to get in if we had time in

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1 the closed session. And that is we have a medical  
2 physicist that we were looking to bring before you at  
3 the board, here at the Advisory Committee.

4 It's clear you don't have time for it, but  
5 I just wanted to make you aware that we may have three  
6 or four more. And we may be sending them out to you  
7 for a decision on whether their training and  
8 experience is equivalent to what is in the  
9 requirements.

10 CHAIRMAN CERQUEIRA: Now, is that  
11 something that just goes to individuals on the  
12 Committee? Does it go to the whole Committee for a  
13 vote?

14 DR. HOWE: We've done it both ways before.  
15 We've done it to the whole Committee or in some cases,  
16 the chairman has set up a subcommittee of people that  
17 have experience in that particular area and gotten  
18 their input and then written us back a memo that says  
19 that it was reviewed by a subcommittee.

20 MEMBER NAG: My suggestion is that the  
21 therapy -- you know, Diamond and I --

22 CHAIRMAN CERQUEIRA: Maybe include one or  
23 two --

24 MEMBER NAG: But here it was the  
25 physicists. So I think the physicist in the group

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1       should be the one deciding. I would have no idea.

2               DR. HOWE: And we've got I think maybe  
3       three or four physicists that are going to be in this  
4       category.

5               MEMBER WILLIAMSON: That come from the  
6       Canadian?

7               DR. HOWE: We've got two from the Canadian  
8       certification. We've got some others in other  
9       categories. So if we can't make a clear  
10      determination, we think it's wise to bring it.

11              MEMBER WILLIAMSON: By the time I read it,  
12      I was gone. And I didn't have access to the Web site.  
13      So I couldn't download information about the Canadian  
14      College of Medical Physics so we would know. That was  
15      not included in the package, and I would --

16              DR. HOWE: Right. I have a printout. I  
17      went out on the Web this morning, and I printed some  
18      of that out. And so I'll try to get you a copy of  
19      that.

20              CHAIRMAN CERQUEIRA: So, Jeff, Ralph, and  
21      Vic, do you guys want to review it?

22              MEMBER WILLIAMSON: We can do that.

23              CHAIRMAN CERQUEIRA: That will be good.

24              MEMBER WILLIAMSON: We can just send you  
25      a memo on this or --

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1 CHAIRMAN CERQUEIRA: Yes. Just send me a  
2 recommendation. And I will pretty much go with your  
3 recommendation.

4 MEMBER LIETO: Because I think they are  
5 looking at meeting someone for our transit because  
6 they're losing their --

7 DR. HOWE: It ends up that they're covered  
8 now. They've got an interim physicist that is leaving  
9 tomorrow for something. And then they have another  
10 physicist that is qualified that they can use as an  
11 authorized medical physicist.

12 They're covered right now. They still  
13 want to use this person eventually as their authorized  
14 --

15 MEMBER WILLIAMSON: Maybe we can deal with  
16 it in --

17 CHAIRMAN CERQUEIRA: Yes. Why don't you  
18 deal with the details?

19 MEMBER WILLIAMSON: I guess I will  
20 schedule a conference call on this issue.

21 CHAIRMAN CERQUEIRA: Yes, yes.

22 MEMBER WILLIAMSON: Do we need a staff  
23 attending this conference call?

24 DR. HOWE: I could probably answer  
25 questions that you might have.

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1 CHAIRMAN CERQUEIRA: That might be good.

2 I would like to end this session, but I  
3 would personally like to thank Charles Miller for  
4 having sat through the entire session. This is the  
5 first time.

6 (Applause.)

7 CHAIRMAN CERQUEIRA: Usually his  
8 predecessors made a token appearance and then were  
9 gone.

10 MEMBER WILLIAMSON: Thirty minutes. So  
11 this is great.

12 CHAIRMAN CERQUEIRA: Thank you.

13 DR. MILLER: One of the things I am trying  
14 to do is to assess what the Committee is about, what  
15 the Committee does, how they service, the concerns  
16 that you have.

17 I heard a lot of things today that I think  
18 the staff needs to work on with regard to its  
19 relationship with the Committee. And that is  
20 something that I need to undertake as a director of  
21 this division with my staff to try to improve that.

22 I can't promise that we'll make a step  
23 change and get it all perfect, but I think hopefully  
24 we can progress in the right direction and improve the  
25 communications because lots of what I heard today had

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1 to do with communications between the Committee and  
2 the staff or lack thereof, yes. And if we can work on  
3 that, then I think we can help you to do your job in  
4 helping us.

5 CHAIRMAN CERQUEIRA: We want to work with  
6 you. Thank you. We are adjourned.

7 (Whereupon, at 6:45 p.m., the foregoing  
8 matter was adjourned.)  
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