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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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ADVISORY COMMITTEE ON MEDICAL
USES OF ISOTOPES
(ACMUI)

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SUBCOMMITTEE ON MOBILE MEDICAL SERVICE

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MORNING SESSION

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WEDNESDAY

SEPTEMBER 27, 1995

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ROCKVILLE, MARYLAND

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The Subcommittee met at the Nuclear
Regulatory Commission, Two White Flint North, 11565
Rockville Pike, Room T2B1, at 8:00 a.m., Barry A.
Siegel, Chairman, presiding.

MEMBERS PRESENT:

BARRY A. SIEGEL

LOUIS WAGNER

1 ALSO PRESENT:

2

3 TORRE TAYLOR

4 JAMES LYNCH

5 LARRY CAMPER

6 JANET SCHLUETER

7 MARGO BARRON

8 GARY STEIN

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A G E N D A

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

2 (8:19 a.m.)

3 MR. CAMPER: Good morning. I'm Larry Camper.
4 I'm the chief of the Medical Academic and Commercial Use
5 Safety Branch. I'm the designated federal official for this
6 meeting. The purpose of the meeting for the next two to three
7 days, which were publicly noticed, is to discuss a number of
8 draft modules for inclusion into the existing Regulatory
9 Guide 10.8, which is the Medical Licensing Guide. This effort
10 is part of an updating to Reg Guide 10.8. The agency
11 recognizes that ultimately Reg Guide 10.8 will undergo a
12 substantial change as we move in the future to revise Part 35,
13 following the receipt of the report by the National Academy of
14 Science. However, the reason we're updating the guide at this
15 point in time to the extent that we are is that over the last
16 couple of years we've been working under a plan known as the
17 Medical Management Plan. Janet Schlueter, who's in the
18 audience, is a member of my staff, is the project manager for
19 the MMP. And there was some guidance lacking in Reg
20 Guide 10.8. Some of it was lacking in its entirety and some
21 of it was lacking in part and needs to be updated.

22 So what we're going to accomplish over the next
23 two or three days with the assistance of the subcommittee is
24 to take a look at these draft modules, and then ultimately
25 these draft modules will be published and will be included in

1 10.8.

2 Janet, what's the schedule and where do we go
3 from this point forward?

4 MS. SCHLUETER: Okay. Just to kind of give you
5 an overview of where we are in this entire project, there are
6 seven different working jobs and I'm the chair of this
7 project. And what we did is we developed those last summer
8 and fall, meaning in 1994, and then beginning in 1995 we sent
9 them out in about four different transmittals to the NRC
10 regional offices and the agreement states for comment. They
11 went out in groups of two and then the last one to go out was
12 the revision of the existing policy and guidance director for
13 remote afterloaders. And that's the last one that has just
14 hit the streets for comment. And so there hasn't been a big
15 comment period left on that one, but that document has been
16 used for some time.

17 So where we're at now is that the working groups
18 have all received all the comments and have reviewed those,
19 have revised their modules accordingly to incorporate those
20 comments. And we wanted to get ACMUI's input at this point so
21 that where the groups will go from now is revising their
22 modules based on your comments again, and then also developing
23 a standard review plan, which will basically be the module
24 itself, a checklist, and a model license. Now those standard
25 review plans will be updated and modified and developed this

1 fall, and then distributed to the regions for use. Our goal
2 is to get those out to the NRC regional offices by
3 December 31, 1995. Those will be for use by the regions.

4 Now we realize we're putting something out for
5 use that in fact will subsequently go out for public comment.
6 But that's okay. The regions have had an opportunity to
7 comment on them; they need to begin to using them, and then to
8 tell us if there are voids or inaccuracies, or what have you.

9 So the goal is to get them to the regions by the
10 end of the calendar year, and then since we began this
11 project, BPR, the business process reengineering project has
12 really taken off and there's been a change in how we'll issue
13 our modules. We'll issue our modules for public comment as
14 part of the overall, very broad materials licensing manual
15 that's being developed by BPR. So these Red Guide 10.8
16 modules will no longer stand alone, but will be incorporated
17 in the materials licensing manual. And they'll go out for
18 public comment.

19 I would imagine now the timetable is February-
20 March time frame of 1996. So they'll be out to the regions
21 just a little bit before that. And I think that's about it as
22 far as where the project is now.

23 MR. SIEGEL: What's the plan in terms of bringing
24 the subcommittee suggestions in the revised documents back to
25 the ACMUI as a whole?

1 MS. SCHLUETER: Well, we'll have to figure out
2 how we would accomplish that if that's desired, because right
3 now the time line for revising the modules, developing the
4 checklist and module, is mid-November of this year, and you're
5 meeting in October, so I'm not sure --

6 MS. TAYLOR: It is on the agenda to talk about
7 generally.

8 MS. SCHLUETER: Okay, to talk about generally
9 what we did? Because that's only three weeks from now
10 obviously.

11 MR. CAMPER: That's right. At this point, Mary,
12 there has not been a plan to take the revised guidance
13 documents back before the entire committee. The plan at this
14 point has been have the subcommittee provide comments that
15 would be a report of the subcommittee activities and findings
16 to the full committee. That's on the agenda for the October
17 meeting. But there is a timing mismatch to have such a full
18 review, and furthermore, there's going to be a special meeting
19 of the ACMUI as you know in February, but that's going to be
20 the focus point in the NAS report, which in itself is going to
21 be comprehensive enough for a full meeting. So the earliest
22 opportunity would be May. I don't know if that review is
23 desired by the committee or if it's necessary, but we can
24 certainly contemplate that.

25 MR. SIEGEL: Right. I wasn't really meaning to

1 press it. I think when we left it at the last meeting the
2 notion was that the most efficient way to do this was to have
3 small groups of people sitting around trying to talk through
4 some of these issues, and I'm perfectly happy with the notion
5 that either, whatever our minutes are or brief reports of what
6 significant changes might have occurred as a result of these
7 three days worth of subcommittee meetings, got back by way of
8 an information report to the committee as a whole. I think
9 the committee as a whole will not wish to take the time to go
10 through any of these little details again.

11 MR. CAMPER: When it's published, Janet, what's
12 the planned period for public comment?

13 MS. SCHLUETER: Well, that will be up to the BPR
14 licensing manual. I mean I would imagine it would be no less
15 than probably 90 days, and probably longer.

16 MR. CAMPER: So that would be -- You're saying
17 February is the plan?

18 MS. SCHLUETER: At the earliest.

19 MR. CAMPER: So February, March -- put you into
20 June, July and August. Now the May meeting of the ACMUI I
21 assume will be talking about the licensing manual obviously as
22 a significant agenda item.

23 What you might be able to do, Barry, in your
24 subcommittee -- Let's assume for sake of discussion that this
25 goes along fairly smoothly. The subcommittee doesn't identify

1 any remaining outlying issues with which you have a problem.
2 In that case it might not be necessary for the guides to go
3 through the full committee. But by the same token, if it
4 turns out that there's some significant issue you could,
5 a) address that in your report to the committee, and then we
6 could add it as an agenda item for discussing before the full
7 committee in the May meeting. And it might mean that we can
8 do that under the umbrella of talking about the licensing
9 manual at large.

10 MR. SIEGEL: That's fine.

11 MR. CAMPER: Okay.

12 MR. SIEGEL: Yes, I think that's reasonable.

13 MR. CAMPER: Does that seem like that will work?

14 MS. SCHLUETER: Yes.

15 MR. CAMPER: All right. Well with that
16 introduction. Are there members of the audience who would
17 like to introduce themselves for the record? There's a couple
18 folks.

19 MS. BARRON: I'm Margo Barron from NUS.

20 MR. CAMPER: Did you get that?

21 Would you say that a little louder?

22 MS. BARRON: Margo Barron from NUS.

23 MR. STEIN: Gary Stein from the American Society
24 of Health System Pharmacists.

25 MR. CAMPER: All right. There are members of the

1 Medical and Academic Section staff. We have Sally Merchant;
2 Janet Schlueter of course, Trish Holahan. And Trish is also
3 working with Janet now on these modules and will be here over
4 the course the next couple days; the assistance of the
5 subcommittee if need be.

6 Suzanne Woods, a member of the Medical and
7 Academic Section staff. And of course Torre Taylor, a member
8 of our staff, who also functions as the administrative
9 coordinator for the ACMUI activities.

10 With that then, Barry, I will turn it over to you
11 as the chair, and let's proceed.

12 MR. SIEGEL: Good. I must admit I don't have a
13 plan, but we're here this morning to deal with mobile medical
14 service module, and to try to get whatever issues there are
15 out on the table.

16 Let me ask -- if unless Dr. Wagner objects -- you
17 or someone to begin by telling us what you have encountered as
18 the most significant problems in the last few years in
19 licensing mobile services. What have been the most
20 complicated issue for you all to grapple with?

21 MR. CAMPER: That's an excellent question, and I
22 was looking through this last night and trying to look at some
23 of the words we had put down and being struck by some
24 problems -- I think the biggest problem area is that when it
25 comes to mobile medical licensing there are two problems.

1 One, is that there is a regulatory problem. If I look at the
2 language today in Part 35 there are two primary parts that
3 deal with it, 35.29 and 35.80. I think that the regulatory
4 criteria, while appropriate and worthwhile at the time when
5 Part 35 was last revised, it may not necessarily be reflective
6 of trends that are going on in industry today. We see
7 somewhat of a increase toward mobile medical imaging. And
8 that's really not surprising given some of the dynamics going
9 on in health care today.

10 Well if you look at language in 35.29 and 35.80 I
11 think that one can make a reasonable argument that it's fairly
12 restrictive, particularly with regards to the capacity for one
13 to receive radio pharmaceuticals at a scan in van scenario for
14 example. Some of the arrangements for interfacing with
15 hospital clients are cumbersome and may not necessarily be
16 consistent with business practice in today's marketplace. But
17 unfortunately that will take a regulatory fix, an adjustment
18 in the language. And we can deal with that problem when we
19 revise Part 35 over the next few years, and we can certainly
20 employ the committee to help us do that. That's one problem.

21 And the fallout from that problem then is, is
22 that what we do -- and in fact Torre and I worked on a case
23 just last week on this. We're having to grant some exemptions
24 to some of the criteria in 35.80 and 35.29, and certainly the
25 regulations obviously allow for the capacity to grant

1 exemptions. You prefer not to regulate by the granting of
2 exemptions. You probably ought to modify your regulations and
3 over time you learn things and you ultimately do that.

4 So that's a major problem, existing regulations.
5 I don't know how to fix that other than adjustments to the
6 language which we'll do in due course. But with regards to
7 the guidance though, what we might be able to do in guidance
8 is to address some of these things we've already seen.

9 For example looking through the guidance the last
10 day or two, a couple things I'm struck by that aren't included
11 that we might consider including, is some discussions of some
12 of these changes that are going on in the industry, that
13 potential applicants should consider their need for radio
14 pharmaceuticals' procurement, what kind of arrangements do
15 they want to have at site for being able to receive the
16 materials and therefore alert them to the fact that certain
17 parts of the regulations they may need to seek an exemption
18 to. And in particular I think at 35(a), possibly (b),
19 35.29(d). And then the other issue that we need to talk about
20 is reciprocity. Reciprocity is a very large scale problem in
21 the sense that today we have a strong program in reciprocity
22 where agreement state licensees want to come into NRC
23 jurisdiction. There's a mechanism and a method for filing for
24 reciprocity, and they can get reciprocity for up to 180 days
25 in a year.

1 Well, if one looks today at some of the
2 regulations and guidelines that are subject to reciprocity, it
3 becomes at least clear to me that they weren't developed with
4 mobile medical imaging in mind, and the truth of the matter is
5 that you can easily imagine the scenario where someone could
6 be based in an NRC agreement state -- let's say Virginia for
7 example -- and want to go right across the border to provide
8 services in a town in North Carolina. And we say nothing
9 literally in the guidance at this point about reciprocity and
10 some of the things that they need to be aware of.

11 And my observation is, is that as mobile medical
12 services continue to increase that will become more and more
13 of an issue. We at this point have a strong potential to
14 receive an application for mobile, high dose rate mode
15 afterloading service. We have met with the company that's
16 interested in this. They were going to submit an application
17 by summer; they didn't do that. Currently our regulations
18 don't allow therapy in a mobile scenario. That would require
19 a significant exemption. It would require a significant
20 adjustment in policy in that regard.

21 But again, we're faced with emerging technology
22 and emerging changes in the way health care is provided. So,
23 I think then those are really the two big issues as I see them
24 of large scale.

25 MR. SIEGEL: Just a simple opening question which

1 is, the module is called mobile medical service; that the
2 corresponding regulatory parts are called mobile nuclear
3 medicine service in 35.29 and 35.80?

4 MR. CAMPER: That's right.

5 MR. SIEGEL: And I wasn't sure whether the module
6 was named more broadly with the notion that it was intended to
7 capture some types of radiation oncology practice?

8 MS. TAYLOR: Mainly to capture the radio therapy
9 under 30 millicuries.

10 MR. SIEGEL: But that's still nuclear medicine.

11 MR. CAMPER: At least in theory, most of the
12 time.

13 MS. TAYLOR: I think we just changed it to give
14 it a more general name because it wasn't going to be strictly
15 just nuclear medicine.

16 MR. SIEGEL: But this module as it stands right
17 now, isn't that designed to address mobile HDR or mobile LDR
18 if such were to exist?

19 MR. CAMPER: It is not.

20 MS. TAYLOR: That's intended to be addressed in
21 another module, right?

22 MR. CAMPER: Now let me just see if I can
23 understand, and Lou interrupt me anytime. Some general issues
24 related to how you think a license is currently written under
25 a few scenarios.

1 Let's start with the common current scenario
2 whereby a large hospital corporation, which is getting to be
3 an increasingly common situation that perhaps owns 15 or
4 20 hospitals over a one state, two state, three state area,
5 decides that for its ten world facilities it needs to have a
6 mobile service because none of them is large enough to sustain
7 a freestanding nuclear medicine department.

8 Each of those component hospitals is itself a
9 medical institution. The parent corporation may or may not be
10 considered a medical institution given this definition, which
11 we'll talk about in a bit.

12 Who would the NRC most like to have the license
13 for the mobile service? A parent corporation, or does the NRC
14 want there to be ten licenses for each of the component
15 medical institutions that receive the mobile service?

16 MR. CAMPER: Well, I'm not sure that we have a
17 preference as such. What we're concerned about of course,
18 Barry, is it to be a clear delineation of control and
19 authority; be a clear delineation of who is managing the
20 radiation safety program, and who in the management structure
21 is responsible.

22 Now, in your scenario, if you have ten hospitals
23 and let's say they all have a license; they all have limited
24 specific licenses for sake of discussion.

25 MR. SIEGEL: See that's the part I'm not sure

1 about, is whether they -- As I read this it seemed like they
2 have to have a license. There couldn't just be one license to
3 the parent corporation.

4 MR. CAMPER: In your example as you were
5 explaining it I was envisioning a situation where you had
6 these ten institutions. Each were medical institutions as
7 defined and they each had a license.

8 Now, they could still -- That corporation could
9 still under that scenario come in and get a mobile medical
10 license under Corporation A, let's say. They could then
11 decide to go to some of those existing limited specific
12 licensees that are their hospitals and decide to provide
13 services to them.

14 And there are some administrative considerations
15 that are talked about in 35. You have to have, of course,
16 letters of permission if you're doing some of the same things
17 that the institution is licensed for then you have to
18 recognize that those things come under the control and
19 responsibility of a licensed institution. That's the way it's
20 currently set up. I think by the way that's an awkward
21 arrangement, but be that as it may, it's the way that it is
22 today and until such time that we change that. I don't think
23 it's 1995; it's not today's reality.

24 But, they certainly could do that then. They'd
25 have to operate under existing administrative restrictions.

1 But we would issue a licensee to one. But again, if you had
2 ten licenses in this corporate chain and you also had one
3 license for this corporate chain that was mobile, we would be
4 looking in each case for a clear delineation of who's in
5 charge, who's administratively responsible, who is a radiation
6 safety officer, who's conducting the program and so forth.
7 But we don't look at it as a preference for one or the other.

8 MR. SIEGEL: But do you currently require that if
9 one of the clients is a medical institution that there has to
10 be a license at the medical institution?

11 MR. CAMPER: No, we do not.

12 MR. SIEGEL: So there could be a single corporate
13 license to cover the activities of the whole operation?

14 MR. CAMPER: Yes, there can be.

15 MR. SIEGEL: And the Navy would be --

16 MR. CAMPER: Well, no.

17 MR. SIEGEL: I mean I know that's not mobile, but
18 that's --

19 MR. CAMPER: I wouldn't even think of the Navy in
20 that same context. The Navy and the Air Force have a unique
21 situation, that they have master materials licenses. And
22 what's terribly unique about them of course is that they do
23 their own licensing. They issue permits. They do their own
24 inspections. They undergo audits by us and we participate in
25 their radiation safety program management and so forth. But

1 that's a distinctly different program.

2 If we had a Corporation A that had a mobile
3 license and it had ten -- Let's take a scenario. Let's say
4 for example they had ten hospitals. They were doing
5 diagnostic only and limited therapeutic nuclear medicine,
6 let's say up to 30 millicuries. They decided they wanted to
7 cancel all ten licenses and have one mobile corporate license,
8 they could certainly do that and then go to each facility and
9 provide the diagnostic nuclear medicine capability. And
10 frankly I suspect in the future you'll see some of that type
11 of activity.

12 MR. SIEGEL: And then would the mobile service
13 have a radiation safety committee? Would the mobile service
14 itself become functionally a medical institution?

15 MR. CAMPER: That's an interesting question. I
16 want to talk about that in some of the language we have in
17 this guidance today. But not as currently structured, no; not
18 in existing regulatory parts, NRC would not be required.

19 MR. SIEGEL: Okay.

20 MR. CAMPER: I mean we have mobile licensees
21 today that are corporate entities, that go provide services,
22 and they do not have a radiation safety program.

23 MR. SIEGEL: Are there mobile services -- Is
24 there any substantial number of mobile services that go to
25 hospitals that are already licensed to have nuclear medicine

1 services?

2 MR. CAMPER: I don't know what the numbers are
3 exactly.

4 MR. LYNCH: There are examples.

5 MR. CAMPER: But there are certainly mobile --

6 MR. SIEGEL: And so what happens at the interface
7 between those two licenses? I mean obviously that's one of
8 the problems.

9 MR. CAMPER: I think there are two aspects to the
10 interface. I think on one hand, if you look at our
11 regulations it says that, if you're going to go into an
12 institution for them to be a client there has to be a letter
13 saying, we want your services; you can come to our institution
14 and provide services. Then it also says though that, if
15 you're going to provide the same services that my institution,
16 the hospital, provides, that when providing those services at
17 my institution my hospital is responsible for what goes on.

18 Now I suspect as a reality that gets very fuzzy
19 and I don't know, Jim, what we've seen in terms of inspection
20 findings to what degree that is a problem, but I can certainly
21 see where that could be a real area for problems. Because
22 again, it's okay to say that as the institution that I'm
23 responsible for this. I guess the question becomes, to what
24 degree is the institution radiation safety officer and the
25 institution radiation safety program truly overseeing and

1 monitoring what's going on by that mobile service entity while
2 they're in their institution. And I guess like, the truth to
3 be known, Barry, it's probably like every other radiation
4 safety program; it's highly variable.

5 MR. WAGNER: That's the difficult thing as I was
6 going through the module that I found very difficult to
7 understand. If the mobile service provides services to a
8 place that doesn't have a license then the mobile service is
9 responsible for everything.

10 MR. CAMPER: Right.

11 MR. WAGNER: But if the mobile service goes to a
12 place that does have a license then it is the place they're
13 servicing that is responsible for everything.

14 MR. CAMPER: For those licensed activities of the
15 institution that the mobile service is also providing. If we
16 take the most simplistic example, 35.200, which obviously is
17 the broad band of imaging, if they're in there doing bone
18 scans, liver scans, mugas, etc., yes, if the institution has
19 35.200 authorization and the mobile service is doing it, the
20 institution is responsible as the regulations are currently
21 structured.

22 MR. SIEGEL: So the mobile service under those
23 circumstances is just a contractor?

24 MR. CAMPER: True.

25 MR. SIEGEL: It's just providing contract

1 services to a licensed institution in a way then gets treated
2 the same way that a contract, god forbid, radiation safety
3 officer or health physicist is treated by you all?

4 The institution has the responsibility.

5 MR. CAMPER: That's right.

6 MR. SIEGEL: But even though the mobile service
7 itself has its own license. It has to have its own license.

8 Now, if a mobile service just moves an imaging
9 instrument around does it need a license?

10 MR. CAMPER: No.

11 MR. SIEGEL: If the administration and by product
12 material occurs in the institution for use on the mobile
13 service's imaging instruments, but the mobile service itself
14 never possesses by product material --

15 MR. CAMPER: That's correct. It's about
16 possession and use of by product material. That's what causes
17 the license to be required. In the scenario you're
18 describing, that would be by product material, licensed, and
19 under the control of the medical institution.

20 Now, with regards to the mobile for medical and
21 some of these administrative requirements that are currently
22 in 35.29, I think what you have here -- and this gets back to
23 the first problem that I was addressing. In 1987 when the
24 regulations currently became effective and they were
25 promulgated and developed back in '85-86 time frame, I don't

1 think that mobile medical imaging was the same thing then that
2 it is today. And so much responsibility was placed upon the
3 medical institution in the classical sense of how have we
4 approached licensing. There's two major components; the
5 institution and the authorized user. It's been that way for
6 years.

7 But I think what you have today, is you have
8 business arrangements today for an authorized user for
9 example. It's an active player in a mobile medical service.
10 Then you face a question -- again, this is something we'll
11 have to deal with in the future as we revisit the regulations.
12 Under that scenario or some similar scenario, shouldn't the
13 mobile medical license be clearly identified as being
14 responsible for all aspects of the radiation safety program,
15 even if an institution has a license. I don't know, there's a
16 question we have to discuss.

17 MR. WAGNER: Well I must admit I was extremely
18 confused as I was going through and reading these things. It
19 would be very very confusing to understand who is responsible
20 for certain activities given the fact that both would have a
21 license. The mobile medical service comes in with their
22 services and yet once they get on their property the
23 institution that they're servicing takes over the
24 responsibility for the regulatory practice, and that to me is
25 extremely cumbersome. I can't imagine how that could be

1 worked out in a reasonable event if something occurred. Who'd
2 be responsible for what? It would be very very difficult. I
3 mean if something goes on inside the van that is a problem
4 then technically the institution they're serving is the one
5 responsible for that, and how can they possibly be responsible
6 for that when they are not the company providing those
7 services? I mean it seems to me that we have created a very
8 convoluted problem here that may be intractable.

9 MR. CAMPER: I would agree with that. Again, the
10 logic that was applied -- and I don't think you'll find an
11 awful lot about this in statement of consideration. If you go
12 back and read them you'll find some limited discussion but
13 probably not to the detail that we would like to have today.

14 But the idea is that, the institution has a
15 license, the institution has a defined radiation safety
16 program. They have a designated radiation safety officer.
17 They have a radiation safety committee. And that being is in
18 a position then to oversee what's going on in that scan van
19 just like it would any other component of its by product
20 material use program. And therefore you're going to apply
21 certain management and administrative controls and reviews in
22 that just like you would for the nuclear medicine department,
23 or even some satellite cardiac imaging room or something of
24 that nature. That was the mind-set that brought those
25 requirements in 35.29 to bear.

1 MR. WAGNER: So I see what you're saying. What
2 you're saying is basically times have changed and those
3 regulations were developed on certain scenarios. Those
4 scenarios no longer exist, but unfortunately we're set with
5 regulations that apply to scenarios that don't exist and now
6 we're trying to figure out ways to apply inappropriate
7 regulations to the current situation.

8 MR. SIEGEL: Well appropriate is a strong word.

9 MR. WAGNER: Something like that.

10 MR. LYNCH: There is one other issue and that's
11 the ownership of the material. If there's some technetium 99-
12 M spilled on the floor of a nuclear medicine lab, I can't tell
13 if that's from my hospital program or if it's from your mobile
14 service. So theoretically both licensees could be using
15 material, the same material in the same area, and you can't
16 physically tell them apart.

17 MR. SIEGEL: How big a problem is this? I mean,
18 what kinds of problems have you encountered, not at the
19 licensing end, but at the compliance end? When you inspect
20 the operations of mobile services and the clients they serve
21 have you found problems?

22 MR. CAMPER: Do you want to follow that?

23 MR. LYNCH: I can't think of any significant
24 problems that were identified.

25 MR. CAMPER: Similarly here. I can't recall any

1 kind of compelling case.

2 Is anyone else on the medical staff? That's an
3 interesting question for the following reason. As I see
4 mobile applications today -- we've had two or three recently.
5 One out in the west that wanted to transport generators on the
6 van, which requires an exemption to do so. The scenario we
7 had recently when they were talking about wanting to receive
8 materials at the van, and so forth.

9 What I'm saying, Barry, is that, I think that
10 historically mobile medical services have performed in a
11 satisfactory manner. We have not seen unusually high
12 violations in that type of licensing entity as compared to
13 normal, the medical institutions.

14 But having said that, at least my sense is -- and
15 seeing some of the things that have been going on
16 today -- mobile medical imaging, mobile medical services
17 involving radiation are changing, are evolving.

18 Now, is that a precursor to increased problems in
19 the future? I don't know. I couldn't predict that. But I
20 certainly see scenarios today where people want to do things
21 differently than the regulations currently allow them to do.
22 And you would think then if they assume more responsibility
23 for receiving materials. They want to transport materials in
24 the van; the generators and so forth and so on. You certainly
25 can see a heightened possibility for problems. Will that

1 materialize? I don't know, but it's changing.

2 MR. WAGNER: But this module that we were going
3 to review only applies to diagnostic, it doesn't apply to
4 giving you any advice regarding how you would grant exemptions
5 for other issues.

6 MR. CAMPER: It's diagnostic and limited
7 therapeutic up to 30 millicuries. But a couple of things I
8 think we ought to ponder is, to what degree should we put any
9 language into this guidance where we bring to the attention of
10 potential applicants some of the changes that we're seeing.
11 And again, the two that come to mind are the 35.29(d) and the
12 35.80(a) and (b) which we can talk a bit more in detail. And
13 what should we be, if anything, informing potential applicants
14 about the possibility to seek exemptions if that's not
15 consistent with the business that they want to provide. And
16 then the second thing is this issue of reciprocity, and to
17 what degree should we alert them to the need for pursuing
18 reciprocity. If they're going to an NRC jurisdiction, to an
19 agreement state, have a reciprocity scenario they need to
20 address that. And it may be as simple as awarding them to the
21 reciprocity process and informing them that if they want to
22 pursue imaging in an agreement state they're going to need to
23 contact that agreement state and do whatever is necessary for
24 reciprocity in that specific agreement state.

25 And by the way -- and this is further compounded

1 by the fact that, remember that agreement states handle
2 reciprocity differently, and in varied fashions than we do.
3 They don't all have the same reciprocity scenarios.

4 MR. SIEGEL: How do we want to do this? Do we
5 want to start just walking through this thing? These comments
6 that came from the regions and others we obviously just got,
7 and so have not had much chance to digest them.

8 MS. TAYLOR: And to be honest, most of them are
9 pretty editorial; clarify this or change this word to that.
10 There are a few things that the regions had asked that we put
11 in that we felt would be too prescriptive in the sense of
12 limiting programs.

13 MR. SIEGEL: Let's just start walking through
14 this thing. Let me start off by asking a question.

15 It says on page 2, Location of Use; that
16 locations of use may include, medical institutions, medical
17 non-institutions -- I'll come back to that in a moment -- and
18 commercial -- I'll have a term for you that will solve the
19 practice -- and commercial facilities.

20 And then on the very next page, it says, if the
21 application is for medical use located in a medical
22 institution, only the institution's management may apply. And
23 I didn't get it. Is that true? I just asked you a moment ago
24 whether there could be one license provided by the corporation
25 and the medical institution didn't have to have a license.

1 And this suggests that the medical institution has to have a
2 license.

3 MS. TAYLOR: This is where the mobile service is
4 located within a medical institution.

5 MR. SIEGEL: I'm very confused about that.

6 MR. CAMPER: Well, I look at this a little
7 differently. I was looking at this last evening, and I can
8 give you my notes in the margins, say, it doesn't work; it's a
9 problem.

10 What we've attempted to do here, is we've lifted
11 the definitions on Part 35 currently for medical institutions,
12 medical non-institution and commercial facility. And we have
13 moved them verbatim almost. Now, it poses some problems
14 because again, as you just were pointing out, a pure
15 commercial entity, they want to do services in the medical
16 institution, some of the things we have written here as
17 definitions I think are problematic in that regard.

18 MS. SCHLUETER: Well I think the reason that that
19 statement's in there is because of 35.12, in the sense that,
20 if the applicant to perform mobile services is a medical
21 institution then the medical institution's management must
22 apply. But that does not apply to the client who may be
23 medical institutions that may be having services at their
24 facility by the mobile service.

25 MR. LYNCH: Right. So what you're saying is that

1 if the licensee, the proposed provider of mobile services, is
2 a corporate entity that is a medical institution then
3 management has to apply as opposed to a person?

4 MS. SCHLUETER: Correct.

5 MR. CAMPER: That's correct.

6 MR. SIEGEL: But then we need to say that more
7 clearly. Because a mobile service that is a free standing
8 corporation could provide service inside its van parked next
9 to an medical institution, and at that point the licensed
10 activity is not considered cited at a medical institution, or
11 is it? See, that's where you're running into a language
12 problem here.

13 MR. CAMPER: Well, if you look at the first one
14 for example --

15 MR. SIEGEL: I'm looking at 35.12.

16 MR. CAMPER: Well, if you go back up to page 3,
17 if you look at (a), if you're reading this -- You're out
18 there, you're a potential applicant. If the application is
19 for medical use located in a medical institution -- Well, if
20 I've got a mobile service I'm going to be providing it for
21 medical use. I'm going to be providing in a medical
22 institution. Only the institution's management may apply.
23 But what we're really saying here is, if a hospital, which is
24 a medical institution, wants to provide mobile, medical
25 imaging services then the management of that medical

1 institution must apply. But we're not as clear about that.

2 MS. TAYLOR: That's what it needs to say.

3 MR. SIEGEL: It clearly does need to say that,
4 because that, I thought, was very confusing.

5 The definitions of a medical institution in a
6 other --

7 MS. SCHLUETER: I have to go back to my desk --

8 MR. SIEGEL: No, but I can fix it for you in two
9 minutes.

10 Where are those definitions? They're not in
11 Part 35.

12 MS. SCHLUETER: Those definitions come from an
13 office of the general counsel interpretation in June of '94,
14 which helped the staff try to figure out when the management
15 needed to apply, when they did not, and if you needed a
16 radiation safety committee and other management program
17 aspects. What precipitated that was the fact that there are
18 more and more private physicians, more as you know, which are
19 combining, incorporating themselves and so forth and so on,
20 and are licensed for activities in the same types, quantities
21 and program aspects that medical institutions are authorized
22 for now.

23 So in other words, you have these groups which
24 are combining and growing and are in fact offering the same
25 type of services and are licensed for the same kind of things

1 as the hospital next-door, but because they're private
2 physicians they've been coming under a different program code,
3 they've been licensed in a different manner, they haven't had
4 to have a radiation safety committee, and so forth and so on.
5 So there are groups of private physicians that are beginning
6 to walk and talk like a medical institution. So there was
7 some attempt at trying to set some criteria for deciding, how
8 big could they be, how much could they grow, what could they
9 offer, what could they be authorized to do and not hit that
10 threshold for medical institution, radiation safety committee
11 and other kind of program management requirements.

12 Now, we made an attempt at trying to define that
13 line, that threshold. There are some problems with the
14 definition when we began to apply it. There are minor ones,
15 but it gets back to how does the physician group function
16 versus how the medical institution. The term is cumbersome
17 and we tried for a long time to figure out something else.

18 MR. SIEGEL: Would you like --

19 MS. SCHLUETER: Sure.

20 MR. SIEGEL: Non-institutional medical practice.
21 Medical non-institution is not a language that I'm familiar
22 with.

23 MS. SCHLUETER: Well I don't think it was a
24 language anybody was familiar with. We were just trying to
25 come up with --

1 MR. SIEGEL: Non-institutional medical practice
2 will capture your spirit --

3 MS. SCHLUETER: Similar but more descriptive.

4 MR. SIEGEL: -- and I think is English.

5 Now let me tell you about your definition of a
6 medical institution here. Three or more medical disciplines
7 are practiced, and more

8 than one physician is associated with the medical
9 practice regardless of the number of authorized users. By
10 this definition -- I think I said this at the last
11 meeting -- two physicians practicing together in a partnership
12 could constitute a medical institution. You could have one
13 guy who's a surgeon and an obstetrician, and does both, and
14 another guy who's an endocrinologist and a nuclear medicine
15 doctor, and is an authorized user and that makes those two
16 guys a medical institution.

17 Who would be on the radiation safety committee?

18 MS. SCHLUETER: If there are three or more
19 medical disciplines.

20 MR. SIEGEL: I just said there were. But there
21 are only two guys. They have no staff. They don't even have
22 a secretary. Two guys in an office put up a shield somewhere.
23 This definition is cumbersome; it don't work. No offense to
24 the lawyers, but I don't think they got this one right. I
25 mean that's as clearly a group medical practice as I can think

1 of, and it could be set up as a partnership so it would not be
2 licensed in any state as a medical institution the way
3 hospitals are licensed, the way free standing clinics are
4 licensed. It'd just be a couple of guys who hung out a
5 shingle and went into business.

6 MR. CAMPER: Well let me take that a little
7 differently. What makes an institution and institution?

8 MR. SIEGEL: I haven't got a clue. I don't know.
9 I mean that's part of the problem. And if you think about
10 it -- and we've dealt with some of this before -- you've got
11 this corporate entity called the hospital that has a bunch of
12 doctors working in it who are sole proprietors, who come in
13 and use the hospital's facilities, and agree to follow the
14 rules while they're working in the hospital, but really have
15 essentially no other fiduciary relationship to the hospital.
16 And that includes authorized users in many hospitals who are,
17 not employees of the hospitals. The only authority the
18 hospitals has over those physicians is the ability to take
19 away their staff privileges and not allow them to practice in
20 the hospital.

21 MS. SCHLUETER: I guess --

22 MR. SIEGEL: But can't otherwise directly
23 supervise the activity of those physicians. That's actually a
24 fairly traditional medical institution.

25 MR. CAMPER: Is there something -- Over the last

1 25, 30 years, we've grown to think of the hospital as a
2 medical institution. Is there something in the charter
3 they're given or when they're licensed by the state? Is there
4 some criteria that gets at what an institution is?

5 MR. SIEGEL: My guess is yes, but I don't know.

6 MS. SCHLUETER: The one case that we had that
7 sort of put the definition to the test, and we soon realized
8 that we had some problems with it was, a scenario in which a
9 private physician office building located next to a hospital
10 had several physicians in it, one of which was an
11 endocrinologist, one of which was a nuclear medicine
12 specialist, and there were other physicians, non-by product
13 material users in the group.

14 Now previously they had separate distinct
15 licenses, but the physician group had incorporated themselves,
16 so there was one organization at the top that these physicians
17 all reported to, if you will. And so then we had this
18 scenario where we had this corporation, this entity, this
19 building with several authorized users in it, that in theory
20 had a corporate relationship, but were holding separate
21 licenses. And so the question was, shall we re-issue the
22 license to the corporation instead of the single users?

23 And so in the long run I'll tell you that we did
24 not. We did not actually apply our own definition, because it
25 seemed illogical to force the corporation to have the license

1 instead of the endocrinologist for example, mainly because the
2 inspection history was very good, was very limited, and why
3 impose the burden on both the NRC and the licensee to go
4 through a licensing process again.

5 So we've only had a couple of cases really where
6 we've had to try to apply this working definition, and there
7 is some difficulty in applying it, and we do have to make case
8 by case reviews of these situations. And it may be that over
9 time we can revise it to reflect how we evaluate these
10 scenarios. It was a shot at distinguishing a threshold and
11 it's just not quite there yet.

12 MR. SIEGEL: I missed this definition in 35.

13 MS. SCHLUETER: Well it's not there in the sense
14 that you'll find 35.2 has a very limited definition of medical
15 institution.

16 CHAIRMAN SIEGEL: No. But I like the way it's in
17 35.2. It makes more sense. An organization for which several
18 medical disciplines are practiced is actually easier for me to
19 understand and apply common sense logic to than this
20 definition, which I find to be very, very awkward.

21 MR. CAMPER: I did, too, Barry, but, you know, I
22 mean, I can quickly identify a scenario of organization. I
23 mean, what if you have a corporate entity, five or six
24 physicians get together and form a corporate entity and
25 they're practicing several disciplines? I mean, arguably,

1 that's an organization. I mean, a corporation is an
2 organization.

3 CHAIRMAN SIEGEL: Well, according to this
4 definition, you would license that as an institution.

5 MR. CAMPER: Yes. But bear in mind another
6 reason why this has become a problem in recent years is fees.

7 MS. SCHLUETER: Fees.

8 MR. CAMPER: That same private practice group
9 that I just described would argue that it's a private practice
10 physician scenario, not a medical institution. It's,
11 therefore, subject to a lesser fee.

12 MS. SCHLUETER: Fees do come into play. And
13 that's why we also worked with the Office of the Controller to
14 develop that definition.

15 MR. CAMPER: In fact, I think it's fair to say
16 that fees were a significant --

17 CHAIRMAN SIEGEL: Were the driving force.

18 MR. CAMPER: -- driving force, certainly one of
19 them. Janet's described a couple of others, but that was also
20 one of them.

21 CHAIRMAN SIEGEL: Well, this is a killer. I just
22 --

23 MR. CAMPER: Well, you know, and what's really
24 problematic about that is, you know, the regulations and the
25 definitions in regulations were designed and built about

1 radiation safety, control of materials. Well, that hasn't got
2 anything at all to do with fees.

3 CHAIRMAN SIEGEL: Right.

4 MR. CAMPER: And, I mean, the regulations are
5 really blind to fees, as they should be, but let's face it.
6 The reality of the matter is you move along and fees continue
7 to increase. And you have this private practice scenario and
8 so forth. People begin to try to find ways to lessen the
9 burden of fees.

10 CHAIRMAN SIEGEL: Well, then let's forget fees
11 for a moment.

12 MR. CAMPER: Right.

13 CHAIRMAN SIEGEL: What is it you think needs to
14 be achieved from a radiation safety point of view that compels
15 you to distinguish between --

16 MR. CAMPER: Right.

17 CHAIRMAN SIEGEL: -- a medical institution and a
18 non-institutional medical practice?

19 MEMBER WAGNER: That's the point.

20 MR. CAMPER: Well, I think sort of a quick
21 layman's response is that the radiation safety committee
22 concept grew out of a need to have an organization within this
23 institution that was overseeing the fact that materials were
24 being used for many different purposes and in many different
25 settings in the classical medical institution, the hospital,

1 if you will.

2 I mean, you know yourself you've got them going
3 on on several different floors. You generally have a cardiac
4 scenario. You have a primary group of medicine scenario. You
5 might have an endocrinology clinic. I mean, the idea is that
6 the committee assumes responsibility for the institutional
7 oversight.

8 By contrast, a private practice scenario, they're
9 typically smaller. And the use scenario is more confined.
10 You ultimately have one or two docs, as you pointed out
11 before. You can't make a committee. You don't have all the
12 players necessarily.

13 So I don't -- I think that's the primary
14 difference, this idea of multiple use sites, multiple program
15 uses, and then an entity that oversees that for the
16 institution.

17 MEMBER WAGNER: But that makes sense. The
18 difficulty I think is that these definitions don't address
19 that. These definitions seem to be more arbitrary than that.
20 And it's not clear how these definitions address that
21 radiation safety issue.

22 If you were to use that scenario, then medical
23 institution and medical non-institution would be defined
24 according to the types of procedures and quantity of
25 procedures that they do.

1 CHAIRMAN SIEGEL: Yes, yes.

2 MS. SCHLUETER: Yes. I mean, we recognize that,
3 having tried to apply them in several cases, it's not working
4 and that we probably want to reconsider writing that section,
5 basically in the tone that you two gentlemen have just
6 described, and eliminating the definitions that are there now
7 because I think it really will take a case by case review.
8 And there's not such a fine line of a threshold.

9 MR. CAMPER: You know, your point if you look
10 through the definitions, you're not struck with radiation
11 safety.

12 MEMBER WAGNER: Right. That's exactly the point.

13 MR. CAMPER: It's a driving consideration.

14 MEMBER WAGNER: That's what I had so much trouble
15 with. I go, "Why are they doing this?" And now we're
16 enlightened. We know why you're doing this.

17 MS. SCHLUETER: Right.

18 MEMBER WAGNER: And I think we want to focus you
19 back onto doing it for the reasons you should be doing it.

20 CHAIRMAN SIEGEL: And, really, from a radiation
21 safety point of view, the key element is who is ultimately
22 responsible: a single authorized user or a small group of
23 authorized users working together versus management with the
24 requirement that management have an intervening radiation
25 safety committee. Isn't that really a fundamental --

1 MS. SCHLUETER: Well, and I think operationally
2 we were moving in that direction, but this definition doesn't
3 reflect that.

4 CHAIRMAN SIEGEL: Now, the problem with simply
5 suggesting that you go backwards to a simplistic approach is
6 that, I mean, one way to do it is to say more than one
7 category of use in a practice constitutes a medical
8 institution.

9 But then the problem is, well, I mean, you have
10 -- but many people have asked this question: Do you really
11 need a radiation safety committee in a hospital that only has
12 a nuclear medicine department and only does imaging and has
13 one authorized user who does the work? What does that
14 organization need a radiation safety committee for?

15 MR. CAMPER: Well, it's a fair question. The
16 theory is that you have this committee and it has to consist
17 of three, at least three, entities: nursing. The reason for
18 that is because materials are being administered out on the
19 floor and so forth.

20 CHAIRMAN SIEGEL: Right.

21 MR. CAMPER: And, therefore, the potential for
22 contamination, the potential for exposure, --

23 CHAIRMAN SIEGEL: Right.

24 MR. CAMPER: -- having nurses who are in and
25 about and around this, having a representative and being

1 involved, institutional management obviously for management
2 awareness and control purposes, obligations and
3 responsibilities of the institution procure and has the
4 license, the authorized user for the active hands-on
5 understanding of radiation safety, et cetera, cetera. I mean,
6 that is the logic applied even in a strictly nuclear medicine
7 scenario. That's where we are today and why, roughly.

8 Now, as you expand the program, you're supposed
9 to bring into bear --

10 CHAIRMAN SIEGEL: Other categories.

11 MR. CAMPER: -- these other categories of users,
12 again for the same purpose: oversight, awareness and
13 oversight.

14 CHAIRMAN SIEGEL: Okay. I'm stuck on this one.
15 So where do you think you're going to go with this?

16 MS. SCHLUETER: You know, I think we should
17 remove the definitions that are there now because it places us
18 in a box that we don't want to be in.

19 MS. TAYLOR: From our discussion, it sounds like
20 we could just take it all out, just rewrite it, ask them to
21 describe in detail their management, corporation structure,
22 describe the oversight, who has responsibility for what, and
23 --

24 MS. SCHLUETER: Well, the type users, yes, the
25 quantities, --

1 MS. TAYLOR: The type users, types, --

2 MS. SCHLUETER: -- all that kind of thing.

3 MS. TAYLOR: -- disciplines being done and do it
4 from a very general -- let them bring it in in a license --

5 CHAIRMAN SIEGEL: Inpatient versus outpatient.

6 MS. TAYLOR: Right.

7 CHAIRMAN SIEGEL: Because, I mean, you don't need
8 nursing involved if you never do an inpatient; correct?

9 MS. TAYLOR: Outpatient; right.

10 CHAIRMAN SIEGEL: If you only do outpatients?

11 MS. TAYLOR: Right.

12 MS. SCHLUETER: I think we just need to let the
13 applicant be aware that we are going to look at all of those
14 aspects of the program to determine whether or not --

15 CHAIRMAN SIEGEL: I sure think that's better than
16 this.

17 MS. SCHLUETER: -- you know, what radiation
18 safety requirements apply.

19 MR. CAMPER: Yes. I think Janet's got a good
20 point there. If we were to take Page 3, Page 4, Page 5 and
21 turn that into text that said, you know, "Describe what this
22 thing is that you're applying for. Is it a medical
23 institution that wants to provide mobile medical services? Is
24 it a private practice scenario that wants to expand their
25 capability to include mobile medical? Is it purely a

1 commercial entity? You know, describe what's going on," get
2 the key points that we're looking for because I -- you know,
3 you're right. These definitions just --

4 CHAIRMAN SIEGEL: Could you include as part of
5 that text, just as you did, several of the most common
6 examples, not to be exclusive, but to say, --

7 MS. SCHLUETER: Right.

8 CHAIRMAN SIEGEL: -- "Common organizational
9 structures of mobile medical services include" --

10 MS. SCHLUETER: Right. That would help.

11 CHAIRMAN SIEGEL: -- and list four or five? I
12 guess it's unlikely that people who haven't got a clue how to
13 do this are going to be applying for it, but I suppose it's --

14 MS. SCHLUETER: It's happened.

15 MR. CAMPER: Business is business.

16 MS. SCHLUETER: That's right.

17 CHAIRMAN SIEGEL: Let's go into mobile nuclear
18 medicine and see what we can --

19 MR. CAMPER: Car sales are down. Let's go into
20 mobile medicine.

21 CHAIRMAN SIEGEL: It sounds good to me.

22 MS. SCHLUETER: Got a good deal on a van.

23 CHAIRMAN SIEGEL: Well, good because I think that
24 if you can make these arbitrary definitions disappear about
25 the number of --

1 MS. TAYLOR: We can do that.

2 MS. SCHLUETER: Yes. We're not wedded to those
3 at all. And there's nothing final, formal, regulatory about
4 them. There's a guidance tool, but --

5 MR. CAMPER: Yes. In the future at some point,
6 you know, when we head down the pathway of revising Part 35 in
7 the future, over the next three or four years, these kinds of
8 things will be obviously, you know, significant, subject to
9 discussion with the ACMUI. Getting some definitions will make
10 some sense that are modern and that will work.

11 MEMBER WAGNER: Should we go over the comments by
12 John Glenn in this memo?

13 MR. CAMPER: Okay.

14 MEMBER WAGNER: I don't see the date on here. I
15 mean, he addresses many of these issues. And much of the
16 issues that he addresses in here are apparently based upon
17 finances. I mean, he's got all kinds of things in here.

18 MS. SCHLUETER: This is the June 1994
19 interpretation of the definitions for medical institution and
20 non-institution. Well, this wasn't a commentary to the --

21 CHAIRMAN SIEGEL: This was a TAR.

22 MS. SCHLUETER: Yes. It was a response to a TAR,
23 which was created. The definitions that we recognize now in
24 applying them aren't working.

25 MEMBER WAGNER: So this is what created those

1 definitions?

2 MS. SCHLUETER: That's right.

3 MEMBER WAGNER: And clearly it's based, at least
4 in my gleaning over this, it appears to be based, upon
5 finances.

6 MS. SCHLUETER: Well, it's not based upon
7 finances. We had to consider the impact --

8 CHAIRMAN SIEGEL: No. It really shouldn't be.

9 MS. SCHLUETER: -- of the decision to categorize
10 one group one way versus another. And so we had to consider
11 that from the Office of the Controller. But it was us, the
12 Program Office, working with general counsel with input from
13 the controller. But that certainly was not the driving force
14 behind why we did it and how it came out.

15 MEMBER WAGNER: No, but, I mean, it comes into
16 the consideration here, obviously. He's talking about license
17 annual gross receipts of a million dollars or less to qualify
18 as a small entity and pay the reduced annual fee. I mean --

19 MR. CAMPER: I recall that, at least to some
20 degree, there were several things that converged at one time
21 that prompted us to do this. But, amongst those things, I
22 believe the situation -- Janet, help me out here. I think
23 that in a couple of cases our inspectors had found themselves
24 in situations where they had questioned their management as to
25 whether or not this large, sprawling physician entity which

1 was growing and expanding was, in fact, a private practice
2 scenario versus an institution. And some of those questions,
3 some of those concerns from inspectors were motivated not by
4 finance, --

5 MS. SCHLUETER: No.

6 MR. CAMPER: -- but by the question of whether or
7 not a radiation safety committee should be --

8 MEMBER WAGNER: Yes. Okay.

9 MS. SCHLUETER: Right, right.

10 MR. CAMPER: And then in a couple of cases there
11 were some questions where some of these small entities were
12 questioning or medical institutions were questioning, "What's
13 going on over here? Why am I subject to this?"

14 MS. SCHLUETER: Right. "Hey, these guys look
15 like us, and they're paying a lower fee."

16 MR. CAMPER: Yes. "These guys look like us." So
17 there were several things going on.

18 CHAIRMAN SIEGEL: You know what? Stuart Treby
19 got it right, man.

20 MR. CAMPER: Where is he?

21 CHAIRMAN SIEGEL: Well, in his note at the end,
22 the very end of this thing, --

23 MR. CAMPER: I don't have a document.

24 MEMBER WAGNER: Is it the whole thing, very end
25 of the whole thing.

1 CHAIRMAN SIEGEL: Well, the very end of this
2 whole thing, it says, --

3 MR. CAMPER: Yes. Stuart Treby. There he is.

4 CHAIRMAN SIEGEL: -- "The size and composition of
5 the radiation safety committee as specified in 35.22 suggests
6 that a medical institution would be sufficiently large so as
7 to have a management structure and nursing service and also
8 might have varied authorized users for different types of
9 byproduct material use."

10 He goes on in the next paragraph, further down,
11 and says, "Based on the definition of medical institution in
12 Part 35 and the special requirements in Part 35 applicable to
13 a medical institution, it is apparent that it must be an
14 organization in which several medical disciplines are
15 practiced of sufficient size so as to have at least three
16 individuals on the radiation safety committee, including an
17 authorized user of each type of use: nursing and management."

18 So it seems to me that in a way the key element
19 is if there ain't a nursing service, it's not a medical
20 institution. If there isn't an independent management
21 structure outside of the authorized users, it isn't a medical
22 institution. And that also really gets to the heart of the
23 radiation safety issues, too.

24 MR. CAMPER: Yes, it does. Yes.

25 MEMBER WAGNER: I really like a lot of this,

1 although I still can come up with a little bit of difficulties
2 on scenarios. And that is if you have the mobile service
3 there. The mobile service then injects the patient, does a
4 scan, sends the patient back into the hospital, where the
5 patient is going to be taken care of in the hospital by the
6 hospital staff. The mobile service itself doesn't supply any
7 nursing, but, of course, the patients when they go back go
8 back into the hospital.

9 So now the issue is you've got the mixture here.
10 And do you need a radiation safety committee in that regard?
11 You're going to have other people involved, but you're not
12 going to have it involved with the mobile service.

13 MR. CAMPER: Well, yes. I think that there are
14 two things that are going on here simultaneously. I think
15 that when we ultimately revise Part 35, we need to go back and
16 look at the definitions in Part 35.2, be more explicit and
17 clear about the role of the radiation safety committee.

18 I agree. I think Stu has done a very good job of
19 articulating.

20 MEMBER WAGNER: Yes.

21 MR. CAMPER: In this type of background, frankly,
22 I think it should be in the statement of considerations at
23 that time. Okay?

24 Now, with regards to the immediate problem at
25 hand, though, what I think we need to do here again is have

1 them describe, you know: Is a medical institution applying
2 for the mobile service? Is a private practice scenario
3 applying? Is a corporate entity, commercial entity?

4 And, for example, if it's a medical institution
5 that's expanding its armamentarium to include mobile imaging,
6 then we should be looking and expecting the radiation safety
7 committee to be providing some oversight for that service as
8 well as part of that institutional service pattern.

9 It would be just like, if you will, the fact that
10 you have a representative there from therapy or endocrinology.
11 In that committee, they would be exercising some oversight on
12 behalf of the institution over that mobile medical imaging
13 scenario.

14 By contrast, though, if it was a private practice
15 scenario, which doesn't have a radiation safety committee,
16 that wouldn't happen. It would be the radiation safety
17 officer management that would be overseeing the mobile
18 scenario.

19 So I think if we avoid these definitions,
20 ultimately fix these definitions but avoid them for purposes
21 of this guidance document but focus upon getting a clear
22 delineation on the applicant as to who's applying, and then
23 bringing to bear some of these things we have talked about,
24 that's probably a better approach.

25 MEMBER WAGNER: I think that approach is much

1 better. The issue I think should be the fact that we have to
2 remember this is all diagnostic --

3 MR. CAMPER: Well, it's diagnostic and limited
4 therapy.

5 MEMBER WAGNER: -- and limited therapy, all of
6 which can be done on an outpatient basis anyway.

7 MR. CAMPER: That's right.

8 MEMBER WAGNER: So it really shouldn't play into
9 a big problem until you go to therapy.

10 CHAIRMAN SIEGEL: I withdraw my comment about:
11 What do lawyers know about the definitions of medical
12 institutions?

13 MEMBER WAGNER: Yes.

14 MS. TAYLOR: Stuart was exactly right.

15 MR. CAMPER: Made you a believer.

16 MEMBER WAGNER: He did a fine job.

17 MR. CAMPER: Well, you know what I think, in all
18 fairness, too, to OGC. I think what may have happened here is
19 that, as often is the case, you get a complex legal answer.
20 Then you try to extract from that key operational line items.
21 It gives you a working model, which is what's reflected here.

22 And I think Lou has kind of pegged it pretty
23 well. If one looks at this, this has a lot to do with just
24 institutional size, fees, so forth, and not so much about
25 radiation safety. And that's probably a mismatch.

1 But it was, as Janet said, an attempt to have a
2 working model at this point in time. You know, we've got this
3 house on shifting sand right now because of these fee changes
4 and so forth.

5 CHAIRMAN SIEGEL: All right. Well, fine. We've
6 dealt with the definition -- that's big progress -- and came
7 up with a better term. I hope you like it.

8 MR. CAMPER: That's the non-institutional medical
9 practice.

10 MEMBER WAGNER: That's much better.

11 CHAIRMAN SIEGEL: And the fact that we called it
12 a medical practice is not a problem because, I mean, basically
13 this has to be -- is that a problem? No. Wait a minute.
14 Commercial service that is in no way, shape, or form a medical
15 practice be licensed to provide mobile medical services. I
16 mean, that's the other problem.

17 MR. CAMPER: Well, can you have that by
18 definition? I mean, how can you -- restate that. How can you
19 be providing mobile medical services if you're not involved in
20 some --

21 CHAIRMAN SIEGEL: By having only authorized users
22 at the resident facilities.

23 MR. CAMPER: That's right. Yes, you could be a
24 commercial entity. And a good example of that is a scenario
25 you described early on, where I have camera on truck, travel

1 to institution.

2 CHAIRMAN SIEGEL: But that's not even a licensing
3 issue as long as I'm not possessing byproduct materials.

4 MR. CAMPER: That's what I'm saying. They're not
5 licensed in that case. Okay? You can have --

6 CHAIRMAN SIEGEL: Can a commercial entity possess
7 byproduct material --

8 MR. CAMPER: Sure, by using an authorized user at
9 the site only; right? I can come in and get a license --

10 CHAIRMAN SIEGEL: Is that a non-institutional
11 medical practice that commercial -- actually --

12 MEMBER WAGNER: Why don't you call it --

13 CHAIRMAN SIEGEL: Actually, it's a third --

14 MEMBER WAGNER: You have commercial.

15 CHAIRMAN SIEGEL: Never mind.

16 MEMBER WAGNER: Would there be any reason to
17 change "practice" to "service"?

18 MR. LYNCH: At this point we're just giving
19 examples.

20 MR. CAMPER: That's fine, yes. We're just going
21 to --

22 CHAIRMAN SIEGEL: I don't care what we do as long
23 as we get rid of the word "non-institution."

24 MR. CAMPER: We're going to rewrite this, take
25 this --

1 MS. SCHLUETER: You don't like that word?

2 CHAIRMAN SIEGEL: We don't know what it is, but
3 we know it's not an institution.

4 MEMBER WAGNER: Right. Take this approach or we
5 --

6 MR. CAMPER: Well, what we'll do is when we
7 rewrite this and tell them to describe what it is, you know,
8 describe: "Is it a medical institution that's providing? Is
9 it a non-institutional medical practice that's expanding to
10 include mobile medical? It is a commercial -- for example, is
11 it," dot dot dot dot dot dot.

12 MEMBER WAGNER: Good. I like that better. Good.
13 Okay.

14 MR. CAMPER: I had one more comment here, too.
15 On Page 6 under the definition of commercial facility, I was
16 struck by something. If you look there, it's the paragraph
17 that says, "In some cases a mobile service" blah blah blah.

18 CHAIRMAN SIEGEL: Yes.

19 MR. CAMPER: You get down to the point where it
20 says, "Submit documentation of the agreement between the
21 client and the mobile service in the event of disharmony
22 between these two entities. It is essential that the mobile
23 service have access to the facility in the event of
24 contamination." Really? Why?

25 You're telling me that I couldn't handle

1 decontamination on a mobile van if I had appropriately trained
2 individuals? I don't need to get into the hospital. What are
3 they going to give me, material to clean it up, swabs, decon.
4 material?

5 I mean, I could certainly do that. I mean, a
6 mobile service could certainly do that.

7 MS. TAYLOR: I think this is more in the
8 situation where they would be in the hospital and have a spill
9 and they need to be able to get into the hospital in the event
10 of disharmony if the work was being done inside the hospital
11 versus the van.

12 MEMBER WAGNER: I took it to mean that if your
13 van is on their property and there's a problem and then
14 there's --

15 MR. CAMPER: Right.

16 MS. TAYLOR: Well, it could say that, too,
17 actually.

18 MEMBER WAGNER: And they didn't want you to come
19 on their property.

20 MS. TAYLOR: Right.

21 MEMBER WAGNER: They wanted to ban you from their
22 property. You've got to be able to get back to your --

23 MS. TAYLOR: Yes, you can take it that way, too,
24 exactly.

25 MR. CAMPER: Well, in either case what I think

1 what's important is that we get some clear understanding that
2 the mobile service has the capacity to deal with a spill,
3 contamination.

4 And you can certainly do that as a self-contained
5 entity. I don't necessarily need to get into the Nuclear
6 Medicine Department in the hospital 10 feet away to do that.

7 In fact, I mean, I should be prepared, the mobile
8 van should be prepared, to deal with a spill immediately.

9 MEMBER WAGNER: To contain it, of course, and so
10 on.

11 CHAIRMAN SIEGEL: Let me ask you a question. If
12 I give I-131, less than 30 millicuries, to a patient for
13 therapy, 29.9 millicuries, the patient leaves my hospital,
14 walks outside into the parking lot -- no, not the parking lot
15 -- walks outside onto the public sidewalk, --

16 MR. CAMPER: Throws up.

17 CHAIRMAN SIEGEL: -- and proceeds to throw up,
18 what is my responsibility, if any?

19 MR. CAMPER: If you have released them, then they
20 were released.

21 CHAIRMAN SIEGEL: Correct.

22 MR. CAMPER: You may have a social
23 responsibility, but you don't have a regulatory responsibility
24 because the criteria has been established.

25 CHAIRMAN SIEGEL: So now let's say I am a mobile

1 service and the patient walks out of the van and has been
2 released from my service, walks into the hospital, which is
3 attached to the van by a little bridge, and throws up in the
4 hospital and the hospital also happens to have a license.
5 Still nobody's responsible for cleaning up that spill; right,
6 other than the social responsibility?

7 MR. CAMPER: That's regulatorily correct.

8 CHAIRMAN SIEGEL: Because we would hope that both
9 of them would have enough sense to clean it up.

10 MR. CAMPER: It's good for business in either
11 case.

12 CHAIRMAN SIEGEL: Well, I mean, you don't want a
13 pool of vomit sitting on the floor in a hospital.

14 MR. LYNCH: There is also the ALARA principle as
15 well as reasonable and achievable. And that would kick in at
16 that point, too.

17 CHAIRMAN SIEGEL: But you could argue that it's
18 better for your --

19 MR. CAMPER: Good health physics practice would
20 mandate that you bring ALARA into bear, but, again, if you're
21 looking at it from the letter of the regulations.

22 MEMBER WAGNER: I had the terrible problem of
23 where the patient went home in their house with their children
24 there and threw up. And I was notified about it.

25 And I wanted to go in and help them clean it up

1 in there, and they wouldn't allow me in their house. They
2 banned me from the property. They wouldn't allow the state or
3 anybody to come in and talk to them. And so, yes, you've got
4 no control over this.

5 MR. CAMPER: No. You've got no control. That's
6 one of the assumptions, the licensee, when you release them,
7 you lose control. You cannot control the patient to make them
8 do anything.

9 MEMBER WAGNER: Therein lies a lot of the
10 problem. When is the patient released? When is the patient
11 released?

12 CHAIRMAN SIEGEL: This is getting complicated for
13 me.

14 MS. TAYLOR: Okay. So what do you want us to do
15 with that sentence?

16 MR. CAMPER: Well, I'm saying that it is
17 essential that the mobile service be prepared to deal with any
18 decontamination scenario.

19 MR. LYNCH: The problem here is access to the
20 facility. The beginning of the paragraph says, "If a mobile
21 service leases a permanent or a semi-permanent space on client
22 property."

23 And it's just later saying that that service
24 should have access to that facility. They can't lock the door
25 and kick them out. If they want to go in and clean something

1 up, they should be able to get in there.

2 MR. CAMPER: It may not be a condition of the
3 contract.

4 CHAIRMAN SIEGEL: It also says "may or may not be
5 a mobile service," too. And I didn't understand that
6 distinction either.

7 MS. TAYLOR: Well, we had one case where they
8 really were not a mobile center. I didn't bring those TARs
9 with me. They weren't considered -- the scenarios did not
10 make them a mobile service because they were --

11 MR. LYNCH: Scanning?

12 MR. CAMPER: Well, they put a scan van on a
13 property.

14 MS. TAYLOR: They were there. And they provided
15 service.

16 MR. CAMPER: They leased the space from the
17 hospital on their parking lot. They set up a scan van.

18 MS. TAYLOR: But it was permanent. I mean, they
19 didn't take this van and move around. And our clients brought
20 patients to that van.

21 CHAIRMAN SIEGEL: So you viewed that as contract
22 services being provided to a medical institution and forced
23 the institution to have the license?

24 MS. TAYLOR: No. The mobile service had their
25 own license, too.

1 MR. CAMPER: The mobile service had a license,
2 but the point is it's not --

3 CHAIRMAN SIEGEL: It wasn't mobile.

4 MR. CAMPER: -- a mobile service in the classic
5 sense.

6 MS. TAYLOR: Right.

7 CHAIRMAN SIEGEL: I see.

8 MS. TAYLOR: It stayed put, and people came to
9 it.

10 CHAIRMAN SIEGEL: In other words, a mobile
11 service that doesn't move.

12 MS. TAYLOR: Right.

13 MEMBER WAGNER: It has the ability to move, but
14 it doesn't move.

15 CHAIRMAN SIEGEL: What we would call a mobile
16 non-service.

17 MEMBER WAGNER: Well, I mean, once we put in the
18 definition about whether it's a mobile service would mean
19 whether or not it's -- if it stays in a certain area for more
20 than two months, it will not be considered mobile or
21 something. I mean, that's the other kind of --

22 MR. CAMPER: You mean define the box --

23 MEMBER WAGNER: Yes.

24 MR. CAMPER: -- for when it's mobile, when it's
25 not.

1 MEMBER WAGNER: When it's mobile and when it's
2 not. But as far as it's essential, I think what's appropriate
3 here is it's essential that the mobile service have access to
4 the facility in the event of contamination. That's too broad
5 a statement.

6 The question is: Do you mean contamination in
7 the mobile facility, on the property leased by the mobile
8 facility, or in the facility in the institution that's next to
9 that mobile area? What types of access are you talking about
10 here?

11 CHAIRMAN SIEGEL: Yes, yes.

12 MR. CAMPER: Well, the trend today is towards
13 scan in van. I mean, the old, you know, pull up with the
14 mobile camera and roll it off the truck and go indoors, I
15 mean, that's pretty much gone. I mean, it may be going on in
16 rural areas, out West in particular, but I think pretty much
17 that technology has passed. It's scan in van type of thing at
18 this point.

19 So the contamination is either going to occur
20 primarily within the van, conceivably the vomiting scenario
21 just outside the steps of the van or something like that, but
22 then we've already got that regulatory problem we've talked
23 about.

24 But, I mean, the thing that I was thinking about
25 with it was that we make the sentence here that it's essential

1 that the mobile service have access in the event of a
2 contamination. That seems to me to apply from a radiation
3 safety standpoint that I've got to have access to their
4 decontamination equipment, I've got to get their radiac wash,
5 I've got to get, you know --

6 MR. LYNCH: That wasn't the intention.

7 MR. CAMPER: Well, then if a spill occurs in a
8 van, why is it essential to have access to the facility in the
9 event of --

10 MS. TAYLOR: We've hung up on the word
11 "facility." Let's get rid of that word and come up with
12 something better, then.

13 MR. LYNCH: Well, we're talking about a mobile
14 service leasing space on client property.

15 MS. TAYLOR: And it may actually involve a small,
16 little area within the hospital.

17 MR. CAMPER: Let me think. Do you mean, then, by
18 this sentence, do you mean that this sentence says, then, that
19 in the event of a spill the personnel of the mobile medical
20 service has to be able to get into the van? You're saying
21 that there might be a problem because it's leased to the
22 institution that they can't get in there?

23 MS. TAYLOR: No, no, no. There are two
24 scenarios. You can have a mobile service that has a van that
25 has leased property in the parking lot of the hospital, is

1 right next door to it, and the hospital provides patients and
2 surrounding other facilities provide patients and they do
3 their mobile service.

4 You could also have the scenario -- and it hasn't
5 come up, but I don't see why --

6 MR. CAMPER: Wait a minute. Let's stay with
7 that, then. Let's say under that first scenario, now,
8 contamination occurs in the van.

9 MS. TAYLOR: A hospital could feasibly say, "You
10 can't come on our property any more," and they need to have
11 access to that van like --

12 MR. CAMPER: Okay. So you're saying, then, that,
13 even though they've entered into a contract to lease the
14 space, that the hospital could say, "You can't come into your
15 scan van?"

16 MS. TAYLOR: If there's been disharmony and the
17 contract doesn't allow them to, yes. That's what we're
18 looking for. If you two have a fight and you have legal
19 problems and they kick you off their property but your van is
20 still there, maybe you haven't been paying your rent.

21 And if they kick you off and say "You can't come
22 on until you pay all this back rent or we're taking possession
23 of your van," you've got to have some kind of thing there so
24 they can get in. And it probably isn't just contamination, I
25 could have said, but they need to have access to get to the

1 material and get the waste out and --

2 MR. CAMPER: Okay. Right. I see what you're
3 saying. Your point is they have to have access to any
4 material, they have to have access to the van in the event of
5 contamination.

6 MR. LYNCH: Well, they're the responsible party
7 here for the health physics involvement.

8 MEMBER WAGNER: Yes.

9 MR. CAMPER: Well, that's an interesting question
10 because if they were doing one of the services that the
11 institution is licensed to do --

12 MEMBER WAGNER: If the institution is licensed --
13 if it is not licensed, then they're responsible for it.

14 MR. CAMPER: Clearly.

15 MEMBER WAGNER: Yes.

16 MR. CAMPER: But if the institution, if the
17 hospital, is licensed, let's say 35.200 again, for sake of
18 discussion --

19 MR. LYNCH: But we're talking about commercial
20 facility here.

21 MEMBER WAGNER: This is under commercial
22 facility?

23 MR. LYNCH: Yes, it is.

24 MS. TAYLOR: Yes.

25 MEMBER WAGNER: Okay. So if it's commercial

1 facility --

2 CHAIRMAN SIEGEL: This is interesting because
3 this is really a contract issue, isn't it?

4 MR. CAMPER: Yes, it certainly could be.

5 CHAIRMAN SIEGEL: I mean, this really is an issue
6 of --

7 MR. CAMPER: Well, yes. But in this case the
8 mobile service is a commercial entity. Okay? But they have
9 an arrangement with the hospital. The hospital has a license.

10 XYZ Mobile Imaging Service, which is a commercial
11 entity, if they go to the hospital, the hospital has a
12 license, the same criteria in 35.29(d) applies.

13 It doesn't matter whether it's a hospital that's
14 doing mobile imaging, a private practice scenario that's doing
15 mobile imaging, or a commercial entity, you know, Acme Imaging
16 Company. If that hospital has a license, the criteria in
17 35.29(d) still applies.

18 CHAIRMAN SIEGEL: (d), about ordering?

19 MR. CAMPER: No. "Mobile nuclear medicine
20 service may not order" -- excuse me. (c), "If a mobile
21 nuclear medicine service providing services to clients is also
22 authorized to provide a client with responsible" blah blah
23 blah.

24 MEMBER WAGNER: Yes. But doesn't that set up two
25 situations? Doesn't that just simply set up the scenario

1 where if they're supplying services to a licensed institution,
2 then they simply have to have access to their leased property
3 in the event of a spill?

4 MR. CAMPER: Right.

5 MEMBER WAGNER: The responsibility falls over to
6 the licensed institution to clear up any problems that occur
7 in the institution. But if the hospital doesn't have a
8 license, if it doesn't have a license, --

9 MR. CAMPER: Right.

10 MEMBER WAGNER: -- then you have to have access
11 to the hospital itself in the event that there is a need for
12 radiation safety services inside the hospital.

13 It's just those two situations. So just ask them
14 to clarify each situation and how they're going to handle it,
15 what the contractual arrangement is.

16 MR. CAMPER: Oh, you're saying, for example, if
17 the institution doesn't have a license and they're injecting a
18 patient --

19 MEMBER WAGNER: Sure, right.

20 MR. CAMPER: -- floor, for example?

21 MEMBER WAGNER: Sure.

22 MR. CAMPER: You're saying they have to have
23 access to the institution --

24 MEMBER WAGNER: Right.

25 MR. CAMPER: -- for decontamination purposes?

1 MEMBER WAGNER: Right, right.

2 MR. CAMPER: Sure. So we need to clarify what we
3 mean here.

4 CHAIRMAN SIEGEL: When a mobile service adds a
5 site of use, that requires a license amendment?

6 MR. CAMPER: Yes.

7 CHAIRMAN SIEGEL: Okay. And do you normally
8 require to see the contracts between --

9 MR. CAMPER: No. If you look --

10 CHAIRMAN SIEGEL: -- mobile services --

11 MR. CAMPER: No.

12 CHAIRMAN SIEGEL: -- and their clients?

13 MR. CAMPER: No. We look to see the letter
14 that's referred to. Mobile nuclear medicine services under
15 35.29(d), "The licensee shall obtain a letter signed by the
16 management of each client for which services are rendered that
17 authorizes use of byproduct material at the client's address
18 of use. The mobile nuclear medicine service licensee shall
19 retain the letter for three years."

20 MR. LYNCH: So we won't see that, but we do look
21 at that.

22 MR. CAMPER: No. And we do look at that. And we
23 do look at that, but we don't see the contract.

24 CHAIRMAN SIEGEL: But the letter doesn't
25 specifically tell you that --

1 MR. LYNCH: No. It just says, "Acme Mobile
2 Service is authorized to do" --

3 MEMBER WAGNER: You could ask for that in the
4 letter.

5 CHAIRMAN SIEGEL: Well, not without changing Part
6 35.

7 MR. CAMPER: That's correct.

8 MEMBER WAGNER: Would you have to change Part 35
9 to do that?

10 MS. TAYLOR: To look at the contract.

11 MR. CAMPER: Oh, yes, if we want to see the
12 contract, I mean.

13 MEMBER WAGNER: No, no. You don't have to see
14 the contract. What I'm saying is you could ask for the
15 statement in the letter from management that they will provide
16 access for the appropriate services.

17 MS. TAYLOR: Well, that's what we've asked for,
18 "Submit documentation of the agreement in the event of
19 disharmony." So we've asked for that in this paragraph.

20 MEMBER WAGNER: Oh, okay. Well, that's it, then.

21 MR. CAMPER: Yes. In implementing --

22 CHAIRMAN SIEGEL: Although Part 35 doesn't really
23 give you the right to ask for that; correct? It's sensible
24 that you want to know how that would be handled.

25 MR. CAMPER: I would put it a little -- I can see

1 why you would say that. What I would say, I would put a
2 little differently, though. Clearly in the implementation of
3 regulations you ask for things, you review things that one
4 cannot find a specific reference to in the regulation.

5 CHAIRMAN SIEGEL: Right.

6 MR. CAMPER: But that's part of implementation
7 because obviously if you covered every possible factual
8 scenario in the regulation, it would be voluminous. So it
9 becomes an implementation interpretation issue on our behalf.

10 CHAIRMAN SIEGEL: I guess I'm still a little
11 stuck here in terms of -- so what do you want to do with this?
12 You want to --

13 MR. CAMPER: Well, what I'm saying is I think we
14 need to be a little bit more specific in that, on the one
15 hand, from a pure radiation safety standpoint, if a van is
16 going to an institution and it's going to do scan in van, that
17 mobile service should have the capacity to properly manage a
18 decontamination event. Okay?

19 You should not have to run into the hospital and
20 get their radiac wash and so forth, plastic bags to contain
21 the chair that you use to clean up and so forth.

22 By the same token, as Torre has pointed out,
23 there is a need to ensure that that mobile service when it's
24 in a contractual arrangement with a medical institution, that
25 it always has access to the material and to the van. And that

1 can be just deal with control of materials or it could also
2 deal with the contamination scenario. And there may be others
3 we haven't mentioned.

4 But the point is you've got to be able to get in
5 that van.

6 CHAIRMAN SIEGEL: Have you all ever encountered a
7 situation in which the client did not permit --

8 MR. LYNCH: Didn't one of the technical
9 assistance requests deal with --

10 MS. TAYLOR: Well, it dealt with this scenario.
11 This is where it came up in the sense that it was leased
12 property. It wasn't leading and going to different clients.
13 It was staying there, and clients were coming to them.

14 CHAIRMAN SIEGEL: But you've never had an
15 incident that involved --

16 MR. LYNCH: Disharmony?

17 MS. TAYLOR: I'm not aware of any. I wouldn't
18 get that information.

19 CHAIRMAN SIEGEL: A spill with concomitant
20 disharmony. I've been wondering whether we're doing a thought
21 experiment or whether we really have any experience to draw
22 upon.

23 MS. TAYLOR: To be honest with you, the client
24 and the mobile service probably would have such a detailed
25 contract to allow for all of these scenarios anyway just for

1 legal reasons that --

2 CHAIRMAN SIEGEL: Well, I would hope so, but, you
3 know, they may not be as clever as we think they are.

4 MS. TAYLOR: Yes.

5 CHAIRMAN SIEGEL: I mean, I know that if
6 Washington University were doing this, the contract would make
7 the NRC license look small by comparison because our lawyers
8 are pretty careful, very plodding, and think of everything.

9 And I think most hospitals these days are smart
10 enough to know that when they hire independent contractors to
11 do these sorts of things for them, that they think carefully
12 about OSHA requirements and EPA requirements and local safety
13 requirements and a variety of things and NRC regulations.

14 And they build that onto the contract and figure
15 out a way to make sure that neither party is going to be in
16 violation, number one; and that, number two, that it clearly
17 spells out whose rear end is on the line in the event there is
18 a violation. And that's always pretty carefully subdivided.

19 I see this as less of a real issue than it seems
20 to be. And I guess the sentence "in the event of disharmony,"
21 would it be better just to figure out a way to say "Describe
22 the arrangements for dealing with incidents"?

23 MR. CAMPER: Yes, access and control of material
24 and incidents.

25 CHAIRMAN SIEGEL: Right, that occur on either

1 leased property or in the client's facility.

2 MS. TAYLOR: It might work.

3 MR. CAMPER: Yes.

4 CHAIRMAN SIEGEL: Just kind of make it one
5 neutral.

6 MR. LYNCH: Well, we already do that. We say,
7 "Include provisions for access of decontamination by the
8 mobile service."

9 MS. TAYLOR: Yes, but he's wanting to get rid of
10 that description of "in the event of disharmony."

11 MR. CAMPER: Right, right.

12 CHAIRMAN SIEGEL: Because that's a very
13 theoretical sort of "Now, what would I do if I wasn't talking
14 to my landlord?" It's hard to write that when you're
15 currently talking to the guy.

16 MR. LYNCH: I don't think we lose too much if we
17 just strike that sentence out.

18 CHAIRMAN SIEGEL: I agree.

19 MR. CAMPER: And, again, that keeps us focused
20 upon the radiation safety issues.

21 CHAIRMAN SIEGEL: The radiation safety issue.
22 Okay.

23 The term "base hot lab," the main facility from
24 -- I'm looking at the definition now, "the main facility from
25 which the mobile licensee operates." What does that mean?

1 MR. CAMPER: Well, I can tell you what it means
2 historically.

3 CHAIRMAN SIEGEL: I'm at the glossary in the back
4 now.

5 MR. CAMPER: What it means historically is that
6 these mobile imaging scenarios have typically had a fixed
7 office, often in an industrial complex, sort of a low-lying
8 industrial complex. They do all their administrative billing,
9 et cetera, from that point. And they have a receipt scenario
10 set up.

11 They have prescribed their procedures for
12 receiving their doses and so forth. At that facility
13 sometimes they have generators, they're preparing their doses
14 there.

15 And they then load the material onto the van.
16 And they depart from this base hot lab operation and go out
17 and about and service their client.

18 CHAIRMAN SIEGEL: Is that common practice in 1995
19 or is it more common for the van to move around while Syncor
20 is delivering the doses to the client?

21 MR. CAMPER: I think it's still common practice,
22 but I think it's becoming complicated by the fact that
23 commercial radiopharmacies are increasing their delivery
24 networks and are better positioned to provide materials to a
25 van.

1 Let's say, for example, a van leaves its base hot
2 lab operation, drives 20 miles away to a town populated by,
3 let's say, 8,000 people. It's now there. It's providing
4 services to the hospital in that town. It wants to stay there
5 overnight because the next day it's going to provide services.

6 What we're finding is that the commercial
7 radiopharmacies are now better capable to deliver materials to
8 that town, that population of 8,000, to that van.

9 Then you get into a situation. Let's say that
10 that van is going be there for 2 or 3 days because 4 miles
11 away there's a town of 3,000 people and patients are being
12 ambulance-brought to the van.

13 Now, under that scenario with the van sitting in
14 that town of that population for three or four days, it
15 becomes a lot like a base hot lab.

16 CHAIRMAN SIEGEL: Yes.

17 MR. CAMPER: It's still got its primary corporate
18 facility back here somewhere. So it's changing. And the
19 reason it's changing is because of the network deliver for
20 radiopharmaceuticals is different today than it was 10 years
21 ago.

22 CHAIRMAN SIEGEL: So what is typically happening
23 with waste disposal in the scenario where the van sits at this
24 place for three days?

25 MR. CAMPER: Well, that raises another

1 interesting question because you start getting into the
2 question: Now, what do you do about waste? For example, if I
3 --

4 CHAIRMAN SIEGEL: Put it on the back of a truck
5 on the highway.

6 MR. CAMPER: Right. Put it on the side.

7 So if I make two or three injections during the
8 day and I now have a couple, two or three, spent syringes and
9 I want to keep it on the van overnight because the next day
10 the commercial radiopharmacy is going to come and pick it up,
11 is that temporary storage? Is that classical disposal?

12 I mean, as you know in a medical setting, in an
13 institution setting, we do that all the time. Spent syringes
14 sit there. The next day they come and pick up the suitcases
15 and take it away. We haven't disposed of it, haven't
16 necessarily stored it either. It's just it's part of the use
17 cycle.

18 CHAIRMAN SIEGEL: They're being held for
19 disposal.

20 MR. CAMPER: That's right, being held for
21 disposal. So you can argue that's part of the use cycle.

22 MEMBER WAGNER: But I think that we have to
23 consider on those things -- go right back to the radiation
24 safety issues. I mean, these do not constitute a tremendous
25 radiation safety issue.

1 MR. CAMPER: No, of course not.

2 MEMBER WAGNER: I can't see that there's a
3 problem.

4 MS. TAYLOR: And we got into that when we got a
5 little further. And we also have allowed several exemptions
6 to --

7 MEMBER WAGNER: And now you want to make sure
8 that they don't leave the daggone thing open overnight for
9 anybody to come in and --

10 MR. CAMPER: It's a control issue.

11 MEMBER WAGNER: Sure.

12 MR. CAMPER: It's a control issue.

13 MEMBER WAGNER: Sure. It's very simple to deal
14 with.

15 MR. CAMPER: And, as Torre said, we do grant
16 exemptions to allow this type of thing to take place.

17 CHAIRMAN SIEGEL: I understand.

18 MR. CAMPER: But, anyway, getting back to his, I
19 was just trying to explain this base hot lab, what has
20 classically and historically been, but you can see that,
21 again, the way things are changing --

22 CHAIRMAN SIEGEL: So maybe is the base hot lab
23 concept now an archaic one? In a way, isn't it really better?

24 MR. CAMPER: No, it's not archaic. It's still
25 being done in a lot of the scenarios.

1 CHAIRMAN SIEGEL: But wouldn't it be better to
2 say for each site of use of byproduct material proposed by
3 this mobile service, which could include a base hot lab as
4 well as each and every client, describe how byproduct material
5 will be received at that site, how byproduct material will be
6 used at that site, and how byproduct material will be disposed
7 of at that site?

8 MS. TAYLOR: I don't think we get that specific.

9 CHAIRMAN SIEGEL: But I may be suggesting that in
10 order for you all to evaluate whether this license arrangement
11 is a good arrangement. Now, you could say, I mean, that could
12 be collapsed to one paragraph that says "The way we do it is
13 we receive everything at Point A, we carry it to Points B, C,
14 D, E, and F, and at the end of the day we carry it back to
15 Point A and that's where it's disposed of."

16 And then you've done, you've captured what I just
17 did in one paragraph. But if there was a different
18 arrangement at each of nine different client sites, you'd want
19 to know what each of those arrangements are.

20 MR. CAMPER: Well, let me just bring to bear a
21 point I made in my opening remarks with regard to a couple of
22 big issues that I see. And one is this idea that if you ask
23 someone to describe what you just said, they may well describe
24 a scenario which would warrant an exemption to either
25 35.29(b), which says "The mobile nuclear medicine service may

1 not order byproduct material to be delivered directly from the
2 manufacturer or distributor to the client's address of use,"
3 because you might as a mobile service be able to describe an
4 arrangement whereby your van would be at Hospital A.
5 Personnel would be there to receive.

6 An arrangement could be put in place with the
7 hospital that when the material is delivered there, it's
8 clearly instructed the security guard picks it up, signs for
9 it, takes it to your van. Your personnel are on site to
10 receive it and so forth.

11 In other words, what I'm saying is that I can
12 imagine a mobile service being able to describe such a
13 scenario. Okay? But that would require an exemption to
14 35.29(d).

15 CHAIRMAN SIEGEL: What is the historical source
16 of 35.29(d)?

17 MR. CAMPER: I think that -- again, it's a little
18 hard to kind of be in the minds of those who went before you,
19 particularly the statement of consideration on a particular --
20 but I think the thinking at this day and time is that mobile
21 services were sort of a stepchild of medical institutions, if
22 you will.

23 In other words, the institution was the
24 preeminent -- that and the authorized user were the preeminent
25 entities as far as licensing was concerned in the medical

1 scenario. Mobile services being provided to it, okay. Yes.
2 You're providing a mobile service, but that institution is
3 still in control.

4 And, really, a mobile nuclear medicine service is
5 not in the position to be able to describe or create a
6 scenario whereby materials can be delivered to that
7 institution and, therefore, that allow that to happen.

8 And I think that today those business
9 arrangements and the sophistication of those mobile medical
10 services could put in place such a scenario.

11 MS. TAYLOR: The other issue is that some of
12 those clients may not have an NRC license. So, obviously,
13 they couldn't receive --

14 MR. CAMPER: Well, that's a good point. Some of
15 them may not be able to, period, --

16 MR. LYNCH: A lot of them don't.

17 MR. CAMPER: -- because they don't have a
18 license.

19 MS. TAYLOR: I think when this regulation was
20 probably written, that was probably the most typical scenario.
21 And now you've more facilities. And it may go back to that
22 with the cost of maintaining a license.

23 MR. CAMPER: Right. Well, it certainly couldn't
24 receive it at all. That's a good point.

25 MR. LYNCH: Previously it was not allowed. If

1 the institution had a medical license, a mobile service
2 couldn't provide the service to that institution.

3 MR. CAMPER: Well, the way (d) is written right
4 now, you can't. That's right. Even if the institution has a
5 license, it just simply says, "Distribute to the client's
6 address of use." That can be a licensed or non-licensed
7 client.

8 Now, in Torre's point, if it's a non-licensed
9 client, they can't receive materials, period. But, by
10 contrast, I mean, a licensed institution could.

11 MS. TAYLOR: And we get into that a little bit, I
12 think, --

13 MR. LYNCH: Yes, we do.

14 MS. TAYLOR: -- when we talk about --

15 MR. CAMPER: Yes.

16 MS. TAYLOR: -- provisions if the client hasn't
17 had maybe a formal transfer or what have you. I think we do
18 address that.

19 CHAIRMAN SIEGEL: Can a mobile nuclear medicine
20 service under 35.29(d) order byproduct material to be
21 delivered directly from the manufacturer or distributor to the
22 mobile service's address of use at a client site?

23 MR. CAMPER: No. It requires an exemption from
24 35.80. It requires an exemption from 35 --

25 CHAIRMAN SIEGEL: So the way this is currently

1 set up, there either has to be either the client has to have a
2 license or there has to be a base hot lab?

3 MR. CAMPER: Either that or an exemption.

4 MR. LYNCH: Or an exemption.

5 CHAIRMAN SIEGEL: Or an exemption.

6 MR. CAMPER: See, to do what you just said --

7 MS. TAYLOR: Which we have allowed to have
8 material delivered to the van.

9 MR. CAMPER: That's right. To do what you just
10 said requires an exemption of 35.80(a), which says, "The
11 mobile nuclear medicine service shall transport to each
12 address of use only syringes or vials," blah blah blah. And
13 the reason it specifies only syringes or vials, because you
14 can't do it with generators, although we will grant an
15 exemption for that as well.

16 But the point I was --

17 CHAIRMAN SIEGEL: Going across Montana you really
18 have to drive fast.

19 (Laughter.)

20 MS. TAYLOR: Well, those exemptions are --

21 CHAIRMAN SIEGEL: And with 0.15 water, it's even
22 tougher.

23 MR. CAMPER: But the point I was making was --
24 and we kind of got into some basement-level details. What I
25 was really saying is if it's appropriate to ask for some of

1 the descriptions that you were suggesting, --

2 CHAIRMAN SIEGEL: Yes.

3 MR. CAMPER: -- which I think is a good idea, by
4 the way, but if you do that, I think that part also needs to
5 bring to the attention of the applicant that some of these
6 receipt scenarios may require you to obtain an exemption of
7 35.29(d) or 35.80(a) because if they're going to scribe in the
8 detail that you were suggesting, some of those things will
9 absolutely mandate an exemption.

10 On one hand, you have a good --

11 CHAIRMAN SIEGEL: But that's okay.

12 MR. CAMPER: Well, no. It's okay. It's fine.

13 I'm just --

14 CHAIRMAN SIEGEL: I just think that in a way it's
15 better to just be very direct and say, "Just tell us how
16 you're going to do it."

17 MR. CAMPER: I agree. And all I'm saying is that
18 someone out there today if an applicant --

19 CHAIRMAN SIEGEL: At the risk of trying to
20 achieve clarity of thinking.

21 MR. CAMPER: Yes. But, I mean, if you're, on one
22 hand, going to describe clearly what it is that you're going
23 to do, which is obviously a good idea, I'm only saying to make
24 them aware of that. And guess what? In doing that good idea
25 and giving us that good detail, you might have to exempt, seek

1 an exemption, which is fine.

2 CHAIRMAN SIEGEL: Well, that --

3 MEMBER WAGNER: I had one issue with the issue on
4 base hot labs. It's Number 4 on Page 8. I put a bunch of
5 question marks by this one, "Submit confirmation in the form
6 of letters from local agencies that operation of the base hot
7 labs does not conflict with local codes and zoning laws.
8 Include confirmation in the form of a signed statement by the
9 licensee that police and fire departments with jurisdiction in
10 the area shall be notified of byproduct material content
11 initially and at 12-month intervals."

12 MS. TAYLOR: This is under a residential --

13 CHAIRMAN SIEGEL: I thought physicians are
14 required to do essentially the same thing.

15 MS. TAYLOR: This is under a residential use. If
16 you look up at (c).

17 MEMBER WAGNER: (c)?

18 MS. TAYLOR: There have been requests to operate
19 from a residential location.

20 MEMBER WAGNER: Right. This is a residential
21 location.

22 MS. TAYLOR: So this is information that we would
23 want applicable to that scenario. And we really don't --

24 MR. LYNCH: If you're doing this out of your
25 house, --

1 MEMBER WAGNER: Yes, right.

2 MR. LYNCH: -- we want to make sure the zoning is
3 appropriate for it and --

4 MEMBER WAGNER: I understand. I understand the
5 reasons for the request. I also can perceive of it being
6 difficulties with some of these things. I'm not sure,
7 "Include confirmation in the form of a signed statement by the
8 licensee that police and fire departments with jurisdiction in
9 the area shall be notified of byproduct material content
10 initially and at 12-month." What kind of notifications do you
11 want them to have?

12 MS. TAYLOR: Well, the nuclear pharmacies do
13 this. You sign a letter saying that they have been notified
14 of what you have in that facility in the event of a fire.

15 MEMBER WAGNER: Yes.

16 CHAIRMAN SIEGEL: Your institution does it, too.

17 MEMBER WAGNER: I know that, but I'm thinking of
18 these small fire departments out in certain facilities. I can
19 tell you they don't know anything about radiation. I've
20 talked to them. They know nothing about radiation.

21 MR. LYNCH: Well, the intent is to inform them
22 that "We have hazardous materials in my basement here. Should
23 there be a fire at this address," --

24 MS. TAYLOR: Yes. "Beware of that."

25 MR. LYNCH: -- "here is what you need to do."

1 Here are the numbers to call."

2 MEMBER WAGNER: All right.

3 MR. CAMPER: Yes. We don't get into: How
4 qualified is the fire department to deal with --

5 MEMBER WAGNER: No. I understand that.

6 MR. CAMPER: Our approach is to make them aware
7 of that.

8 MEMBER WAGNER: I was just trying to get at what
9 we're trying to achieve by all this notification and stuff
10 because --

11 CHAIRMAN SIEGEL: Have there really been requests
12 for residential --

13 MS. TAYLOR: Right.

14 MR. CAMPER: Yes.

15 CHAIRMAN SIEGEL: -- base hot labs?

16 MS. TAYLOR: One that I'm aware of.

17 MR. CAMPER: Yes.

18 CHAIRMAN SIEGEL: And it was permitted by the
19 local zoning laws?

20 MR. LYNCH: There's one in St. Louis.

21 MS. TAYLOR: Probably your next-door neighbor.

22 MR. CAMPER: It's next door, yes.

23 CHAIRMAN SIEGEL: It's my house.

24 (Laughter.)

25 MR. CAMPER: It's your neighbor, your next-door

1 neighbor.

2 MS. TAYLOR: Well, I think most of them are set
3 out probably in --

4 CHAIRMAN SIEGEL: One block away from Washington
5 University's temporary decay and storage facility, but they do
6 a good job. So it doesn't bother me.

7 There's a residential base hot lab in St. Louis?

8 MR. LYNCH: Yes, yes.

9 CHAIRMAN SIEGEL: Incredible. Okay.

10 MEMBER WAGNER: "Verify that restricted areas
11 should not include residential quarters." I hope so.

12 MR. CAMPER: While you're at that part there,
13 too, I had a question on 3, just above that, again this idea
14 -- and, Jim, maybe you can shed some light on this -- "Submit
15 an evaluation demonstrating compliance with 20.1301." So
16 we're saying we want somebody in a residential scenario to do
17 that.

18 My question was: Do all licensees have to do
19 this? Because if you go look at 20.1301, 20.1301 is an
20 absolute regulation standard. This is the one that says, "You
21 will limit your doses to members of the public to 100
22 millirem. And doses in the unrestricted area will not exceed
23 2 mr."

24 MR. LYNCH: Yes. Commercial pharmacies have to
25 deal with that question. Who's on the other side of the wall?

1 CHAIRMAN SIEGEL: So does everybody.

2 MR. LYNCH: We're going to put a TLD on the wall
3 to ensure that the dose on the other side is below regulatory
4 limits, that sort of thing.

5 MR. CAMPER: So that's the evaluation that we're
6 referring to.

7 MEMBER WAGNER: Or you could have a survey done
8 by some --

9 MS. TAYLOR: Right.

10 MEMBER WAGNER: You can come in and do a quick
11 survey and to verify that the exposure rates are so low that
12 no one could possibly --

13 MR. CAMPER: Well, that's fine. I understand.

14 CHAIRMAN SIEGEL: So you're saying this is
15 redundant here?

16 MR. CAMPER: Well, it's either redundant --

17 MR. LYNCH: It is required on any license
18 application.

19 MR. CAMPER: The impression I had was we seem to
20 be asking for something. When we say "Submit an evaluation
21 demonstrating," we seem to be asking for something here that's
22 different or above what we're routinely expecting to see
23 licensees demonstrate to show compliance of 20.1301.

24 MS. TAYLOR: We could just say "Demonstrate
25 compliance or describe how you're going to demonstrate

1 compliance" or --

2 MEMBER WAGNER: But don't they already have to do
3 that in Part --

4 MR. CAMPER: But we're just pointing --

5 MEMBER WAGNER: Why is it being singled out for
6 residential and not others? Why is it --

7 MR. CAMPER: Well, that's another interesting
8 point.

9 MEMBER WAGNER: Why is it being singled out for
10 residential and not others?

11 MS. TAYLOR: Just to make sure.

12 MR. LYNCH: I mean obviously in a residential
13 situation you have potentially on the other side of a wall
14 somebody spending a great amount of time, 20 hours a day, as
15 opposed to a commercial facility, where that would likely be
16 limited to less time than that. So it was an attempt to bring
17 out that concern a little bit here.

18 CHAIRMAN SIEGEL: Now, Paragraph 2 probably
19 should be altered along the same lines that we suggesting
20 altering it for client. It's dealing with a fairly uncommon
21 scenario.

22 I guess this is where you're talking about you're
23 leasing an apartment in an apartment building as your base hot
24 lab.

25 MS. TAYLOR: I don't think we can do that.

1 CHAIRMAN SIEGEL: I just can't imagine. I can't
2 imagine the tenants in the apartment building sitting still
3 for that.

4 MS. TAYLOR: That probably wouldn't be
5 authorized.

6 CHAIRMAN SIEGEL: Well, it says "residence owner
7 and licensee." I guess it could be a man and a woman living
8 together who are not married and one of them runs the base hot
9 lab and the other is the residence owner.

10 MEMBER WAGNER: We had a physician who wanted to
11 rent the apartments in a -- or, actually, motel rooms --

12 CHAIRMAN SIEGEL: You've thought of everything.

13 MR. CAMPER: We try.

14 MEMBER WAGNER: -- as his place to put his
15 therapy patients. He wanted to rent a motel and put patients
16 in the motel for confinement.

17 CHAIRMAN SIEGEL: Oh, God. All right.

18 MEMBER WAGNER: We had that situation.

19 MR. LYNCH: So I don't know. Why did we decide
20 with 1301 there? Do we want to --

21 CHAIRMAN SIEGEL: I'd be inclined to delete it
22 since it's part of every license application unless you meant
23 that it was --

24 MR. CAMPER: Well, that's the thing I was --

25 CHAIRMAN SIEGEL: -- at a higher and higher

1 level.

2 MS. TAYLOR: Okay. I don't have a problem with
3 that.

4 MR. CAMPER: Well, as I read it -- and maybe I
5 misread it, but I got the impression that we were seeking some
6 evaluation demonstrating compliance that's distinctly
7 different than what we would expect under normal
8 circumstances.

9 MR. LYNCH: No. It's just that in a residential
10 setting, it has a little different flavor.

11 MR. CAMPER: And even then we're looking for
12 presentation in a program that demonstrates compliance with
13 20.1301, not necessarily an evaluation demonstrating
14 compliance. In other words, we're looking to see that they're
15 going to give us a program that would appear to meet the
16 intent of 20.1301 that the operation will not cause an
17 exposure to greater than 100 millirem.

18 MR. LYNCH: You're right.

19 MEMBER WAGNER: But I believe the evaluation --

20 MR. CAMPER: But we don't say, "Show us that you
21 evaluated your program so that that won't happen."

22 CHAIRMAN SIEGEL: You could change this to say
23 something like, "Submit a description of your program
24 demonstrating how you will achieve compliance with 20.1301" --

25 MR. LYNCH: We do that elsewhere.

1 CHAIRMAN SIEGEL: -- "in a residential setting."
2 And you're just trying to emphasize that it's more difficult
3 to do so in a residential setting.

4 MR. CAMPER: In a residential setting. That's
5 true.

6 CHAIRMAN SIEGEL: That would be okay. I don't
7 mind the emphasis here. I'm actually flabbergasted that
8 anybody is going to do this in a residential setting.

9 MR. CAMPER: Yes.

10 MEMBER WAGNER: I think that's a good point
11 because I think evaluation, I think evaluation, if I recall
12 this correctly, can be calculations.

13 MR. CAMPER: Yes, it can.

14 MEMBER WAGNER: And so here you may be wanting to
15 ask --

16 CHAIRMAN SIEGEL: Well, until you're licensed, it
17 has to be calculated.

18 MEMBER WAGNER: Correct, correct. But it still
19 may be ongoing calculations that you can present without any
20 real measuring data. And it might be here in the residential
21 setting that you may actually want to measure, have some real
22 data that you would evaluate.

23 MR. LYNCH: Well, certainly our inspection
24 process would look at that. I mean, that would be a key
25 aspect of the inspection to determine whether the 1301 is met.

1 CHAIRMAN SIEGEL: All right.

2 MR. CAMPER: So we're flipping to Page 9.

3 CHAIRMAN SIEGEL: Temporary job sites. Oh, I
4 actually have a question about two jargon terms, "base hot
5 lab" and "scan in van."

6 MR. LYNCH: Those are all but --

7 CHAIRMAN SIEGEL: Is "hot lab" really the term we
8 want to be using in a regulatory document?

9 MEMBER WAGNER: Why don't we take out the word
10 "hot"?

11 MR. CAMPER: Yes, I can see your point. You mean
12 as in "base hot lab"? That's common nomenclature.

13 CHAIRMAN SIEGEL: As in "base hot lab."

14 MEMBER WAGNER: Yes. I know, but that -- I know
15 it is.

16 CHAIRMAN SIEGEL: I mean, it's an inflammatory
17 word.

18 MEMBER WAGNER: Really, I agree.

19 CHAIRMAN SIEGEL: No pun intended.

20 MS. TAYLOR: What's the other lingo out there?

21 MEMBER WAGNER: Base laboratory.

22 MS. TAYLOR: Base laboratory?

23 MR. CAMPER: Well, is it a base
24 radiopharmaceutical laboratory?

25 CHAIRMAN SIEGEL: That would be okay.

1 MS. TAYLOR: Let's do that.

2 MEMBER WAGNER: That would be fine.

3 CHAIRMAN SIEGEL: And then if you're going to do
4 that, make it "laboratory," instead of "lab," which is also
5 jargon.

6 MEMBER WAGNER: Yes, right.

7 CHAIRMAN SIEGEL: I just think a non-pejorative
8 word. "Hot" implies --

9 MEMBER WAGNER: I agree.

10 CHAIRMAN SIEGEL: -- by in these formal
11 regulations that we're making a judgment about them.

12 MR. LYNCH: This is a regulatory guide. This is
13 not a regulation.

14 MEMBER WAGNER: Still.

15 MR. LYNCH: It's meant to speak to the --

16 MEMBER WAGNER: Sure.

17 CHAIRMAN SIEGEL: And then this "Jack in the box
18 service" we're talking about --

19 MR. CAMPER: But the point, though, even if it's
20 a guide, there's a way to describe what it is and not do it in
21 an inflammatory manner.

22 CHAIRMAN SIEGEL: You could --

23 MS. TAYLOR: Politically correct; right?

24 CHAIRMAN SIEGEL: -- have "highly dangerous base
25 hot lab" while you're at it, too; right?

1 MEMBER WAGNER: We have those. We have different
2 --

3 MR. CAMPER: And by definition it is a
4 radiopharmaceutical laboratory.

5 MEMBER WAGNER: Right, right.

6 MR. CAMPER: It is based in nature. So that's
7 the kind of thing.

8 CHAIRMAN SIEGEL: "Scan in van service," is there
9 a better way to describe?

10 MR. CAMPER: "Scan in van"?

11 MEMBER WAGNER: You could put it -- well, I think
12 that's a term that's used --

13 CHAIRMAN SIEGEL: Mobile imaging service or --

14 MEMBER WAGNER: No.

15 MR. LYNCH: Well, see, it's not --

16 CHAIRMAN SIEGEL: "Scan in van" is such jargon.

17 MR. LYNCH: It is a --

18 CHAIRMAN SIEGEL: It's Jack in the box. It's
19 right at that level.

20 MR. LYNCH: Yes. We didn't like that either.

21 MS. TAYLOR: Well, maybe we could just say
22 "Indicate if only imaging service will be provided with" --

23 MEMBER WAGNER: Why don't we just say "in-van
24 imaging service"?

25 MR. CAMPER: "In-van imaging," yes.

1 MS. TAYLOR: Oh, that's good.

2 CHAIRMAN SIEGEL: Bless your heart, Doctor. So
3 leave the hyphen with the word "in-van."

4 MEMBER WAGNER: "In-van imaging."

5 CHAIRMAN SIEGEL: "In-van imaging service."
6 Thank you.

7 MR. CAMPER: Texas is heard from.

8 (Laughter.)

9 CHAIRMAN SIEGEL: You can have "imaging
10 non-service." I'm not going to let you escape on that one.

11 MS. TAYLOR: I'm glad I didn't have anything to
12 do with that one.

13 CHAIRMAN SIEGEL: Okay. Good.

14 MEMBER WAGNER: It will have to be changed
15 throughout the document, too.

16 MS. TAYLOR: Yes. I'm glad for the REPLACE
17 feature.

18 MR. CAMPER: I'm showing about 9 after 10:00. Do
19 you want to break at about --

20 CHAIRMAN SIEGEL: Yes, I do.

21 MR. CAMPER: -- 10:15 or something or do you want
22 to break now or --

23 CHAIRMAN SIEGEL: Yes. Let's do it.

24 MR. CAMPER: You want to go now?

25 CHAIRMAN SIEGEL: Yes.

1 MR. CAMPER: All right. This is a break.

2 (Whereupon, the foregoing matter went off the
3 record at 10:05 a.m. and went back on the record
4 at 10:32 a.m.)

5 CHAIRMAN SIEGEL: We are on temporary job sites.
6 Are we okay? I didn't have anything there other than the
7 "scan-in-van" jargon.

8 MR. WAGNER: I guess we were on page 9 and 10.

9 MS. TAYLOR: Right.

10 MR. WAGNER: Temporary job sites, okay.

11 CHAIRMAN SIEGEL: Was there anything substantive
12 on either of those?

13 MR. LYNCH: If you will note, in here we bring up
14 the paragraph about 1301 again, 20.1301, Item 3.

15 MR. WAGNER: Right.

16 MR. LYNCH: Again, we're just trying to be --

17 CHAIRMAN SIEGEL: Reemphasize.

18 MR. LYNCH: Reemphasize.

19 CHAIRMAN SIEGEL: Well, maybe you ought to just
20 add a similar parallel phrase.

21 MR. LYNCH: Well, we are saying it's outside the
22 van.

23 MR. WAGNER: Why in the world don't you just take
24 this and put it at the beginning?

25 MS. TAYLOR: Because --

1 MR. WAGNER: Just put it at the beginning.

2 MR. LYNCH: Well, the point is we could not
3 include it at all, if that's the desire.

4 CHAIRMAN SIEGEL: Well, I don't mind seeing it
5 reemphasized.

6 MR. WAGNER: It's a minor point. It's not
7 important.

8 MS. TAYLOR: Oh, you're saying at the very, very
9 beginning?

10 MR. WAGNER: It doesn't matter.

11 MS. TAYLOR: Chances are, that might be addressed
12 in the body of 10.8 already. I'm not sure, and these are
13 specific things --

14 MR. WAGNER: Just reemphasis. That's fine.

15 MS. TAYLOR: Yes.

16 MR. WAGNER: That's fine. It's not a problem.

17 MR. CAMPER: I had the same concern here that
18 I've expressed several times before, and it's this 35.29(c)
19 issue, if they are doing the same services, so forth and so
20 on. It may be that we'll cover that somewhere up front, as
21 sort of general administrative guidance.

22 MR. WAGNER: I have a lot of problems on page 10,
23 Number 4. Did I interrupt you there?

24 CHAIRMAN SIEGEL: That's what Larry is talking
25 about, yes.

1 MR. CAMPER: Also, back on page 9, though, the
2 sentence where it says "Indicate if 'scan-in-van' services
3 will be provided. Note that your service may not be
4 considered licensed activities if you are only providing
5 services for scanning patients." We could say that more
6 clearly.

7 MR. WAGNER: Imaging. Well, I guess you want to
8 say scanning, imaging or -- I guess it could be more than just
9 imaging.

10 MR. CAMPER: Well, it may not be considered
11 licensed. It may not be considered licensed activities, if
12 you are only providing... --

13 MS. TAYLOR: Well, and then we go on to say, "In
14 situations where radioactive material is not handled by the
15 mobile medical service an NRC license may not be required."
16 Instead of saying handled, we may want to say possessed and
17 used.

18 MR. CAMPER: Yes. We need to be a little more
19 explicit about what we are getting up there.

20 CHAIRMAN SIEGEL: Some sort of clarification on
21 that. I don't know exactly the words, but --

22 MR. WAGNER: Although I can't imagine that being
23 the case, because they would have to have -- They would have
24 to have a Cobalt 57 flood source. They have to do some kind
25 of --

1 MR. CAMPER: We don't regulate it.

2 MS. TAYLOR: We don't regulate that, but there
3 are probably other sources they would need also. Do we have
4 anyone like this? The other thing is, if they go to the
5 facility with their van in which they could use those sources
6 under their supervision and do all their QA -- So they
7 wouldn't have to possess the sources.

8 MR. WAGNER: Yes, they could do that. If they
9 just have the camera or they have a thyroid uptake probe or
10 they have -- It just doesn't have to be imaging either.
11 That's the other caveat here, is that it doesn't have to be
12 just imaging. It could be quantitative studies.

13 MS. TAYLOR: That's true.

14 MR. WAGNER: You could have quantitative studies.
15 It isn't just limited to imaging.

16 CHAIRMAN SIEGEL: Do we know if anybody is doing
17 that, if people are transporting any. Thyroid uptake probes
18 are sufficiently inexpensive that, if you really want to
19 provide this service, it's not that big a deal for the
20 hospital to do it, unless it's a matter of not wanting to have
21 a license at all. Okay.

22 So are we aware that scan-in-van exists with no
23 licenses of any sort, simply transporting camera from site to
24 site?

25 MS. TAYLOR: Well, I'm thinking it must, because

1 this is information that came from the current policy guidance
2 directive that's being used with this year's --

3 CHAIRMAN SIEGEL: Well, I'm sure scan-in-van
4 exists. The question is whether it exists unlicensed, because
5 the mobile service never actually has anything other than a
6 radioactive patient who walks into the van.

7 MR. CAMPER: Let's say -- That's an interesting
8 question for sort of a different reason. Let's say someone
9 was very astute, who really understood the regulation, and
10 they recognized they could do that absent the license. We
11 wouldn't know it unless the licensee, the hospital, had
12 indicated in their application somewhere that patients were
13 being scanned on this van and that they wanted to inform us,
14 you know, that this was another place of use, not within the
15 boundary of the building but otherwise. We might not
16 literally know it.

17 CHAIRMAN SIEGEL: Well, no, you might know about
18 it, though, because someone who is doing it might be clever
19 enough to pick up the phone and say, this is what I'm planning
20 on doing, and I want to make sure that you all don't see any
21 problems with it.

22 MR. CAMPER: Right, or he might be very clever
23 and decide he didn't --

24 CHAIRMAN SIEGEL: They might be exceedingly cover
25 and say, the hell with you, I don't have to have it. Okay.

1 MR. WAGNER: On Item Number 4 --

2 CHAIRMAN SIEGEL: Are we on page 10 again?

3 MR. WAGNER: Yes. Is the intent of this rule to
4 say that the client is responsible for the radioactive
5 materials on their site or does it really mean that the client
6 is responsible for radiation safety on the mobile van itself,
7 in addition to the mobile people being responsible for what's
8 going on in the mobile van?

9 MR. CAMPER: Well, it's saying -- If you go back
10 to 35.29(c), it's saying that the institution, the hospital,
11 is responsible for assuring that services are conducted in
12 accordance with the regulations in this chapter while the
13 mobile medical service is under the client's direction. In
14 other words --

15 CHAIRMAN SIEGEL: It's setting up a hierarchy,
16 really.

17 MR. CAMPER: It's saying that you're going to
18 ensure -- you're the hospital, and you're going to ensure that
19 the regulatory conditions are met while that van service is at
20 your facility providing those services.

21 MR. WAGNER: So, basically, what it's saying is,
22 if I as the hospital -- If I go in and I say, okay, you people
23 are here to do this scanning, but I have to make sure you're
24 doing this in compliance with the regulations, what are you
25 doing. What are your practices? Do I have to verify that

1 they're going to be doing things appropriately? Do I have to
2 go down there and inspect them. What do I have to do, because
3 they're the ones that have been doing this all the time.
4 Presumably, they have a license.

5 CHAIRMAN SIEGEL: Well, that's exactly what it
6 means, because this is -- The mobile service is functioning as
7 an independent contractor providing service to a licensed
8 institution. Therefore, the institution's management has the
9 ultimate responsibility for the licensed activity.

10 Actually, even though I can think of objections
11 from a purely business point of view, I think from a safety
12 point of view, this is a better hierarchical structure. It
13 puts the ultimate responsibility on sort of the bigger
14 organization, what would generally be the bigger organization,
15 what would generally be the organization with a broader set of
16 overall responsibilities, deeper pockets perhaps.

17 MR. LYNCH: If you look at 35.25, which the
18 hospital would be required to follow, it says periodically
19 review the supervised individuals, use of byproduct materials
20 and the records kept of that use. So that regulation is going
21 to require some --

22 MS. TAYLOR: Well, that's true.

23 MR. CAMPER: The answer to your question from a
24 practical standpoint is that, yes, they are going to have to
25 go out there and keep an eye on what's being done. They're

1 going to have to monitor it. They're going to have to take a
2 look and see if appropriate records are being kept, so forth
3 and so on.

4 CHAIRMAN SIEGEL: Now again, is this a big
5 problem? Are there lots of these arrangements?

6 MR. CAMPER: Well, let me just put it this way.

7 CHAIRMAN SIEGEL: Where both have licenses?

8 MR. CAMPER: We just had -- The answer is, no,
9 there are not lots, but we just had an exemption request from
10 a mobile medical imaging situation. They requested an
11 exemption to 35.29(c), and their rationale for it was that we
12 are offering this as a business service; we want to and intend
13 to control all aspects of the radiation safety program
14 associated with this service, all aspects of its use, and we
15 don't want to be in a situation where we find ourselves either
16 in conflict with the medical institution which we're providing
17 service or an absence of an adequate level of service or
18 support or monitoring by that licensee. We want to control
19 it. We want to oversee it.

20 MR. WAGNER: I agree totally with that.

21 MR. CAMPER: And we granted an exemption.

22 MR. WAGNER: Okay. They granted the exemption?

23 MR. CAMPER: Yes.

24 MR. WAGNER: To me, that would be a sensible way
25 to do it.

1 MR. TAYLOR: I haven't been to OGC yet.

2 MR. CAMPER: We intend to grant the exemption.

3 I'm sorry.

4 CHAIRMAN SIEGEL: Why does that medical
5 institution have a license?

6 MR. CAMPER: Because they either have
7 historically wanted to use material. Again, let's take 35.200
8 as an example. They have wanted to do that for whatever
9 reason. They may still have a license, but have decided to
10 use the services of a mobile service, because maybe it's
11 cheaper or maybe their operating parameters have changed. I
12 don't know.

13 MR. TAYLOR: They may not have a user.

14 MR. CAMPER: They may not have a user, but they
15 want to keep being able to image patients, but the question
16 that it raises in my mind --

17 CHAIRMAN SIEGEL: But if they don't have a user,
18 they don't have a license.

19 MS. TAYLOR: Well, they still need it.

20 MR. CAMPER: They could still have a license.
21 They could be --

22 CHAIRMAN SIEGEL: Well, it can't be an active
23 license.

24 MR. CAMPER: That's right. They're in a stage of
25 flux. They still have a license, though, by definition, but

1 getting back to the point you were raising, the thing that I'm
2 struck by as I was looking at all this, you know, the question
3 is, if you're going to issue a license to a mobile medical
4 service -- We have historically sort of had this -- If one
5 reads these regulations, you get this parent/child feeling --
6 right? The medical institution is the parent. The mobile is
7 the child.

8 I guess the question you have to ask yourself is,
9 if you assume that in 1995 mobile medical imaging is changing,
10 provision of service are changing and so forth and so on, is
11 it appropriate, is it necessary for us to place the same level
12 of responsibility and burden on a mobile medical imaging
13 service that we expect of an institution with regards to
14 radiation safety and control and use of materials and so
15 forth?

16 That's something I think we need to explore, as
17 we revise Part 35. Obviously, that would require a rule
18 change, but it's something we need to ask ourselves as we look
19 at it.

20 MR. WAGNER: I mean, I can see this going both
21 ways. I can see where a small service company would come in,
22 and they would want the radiation safety services of the
23 larger institution when they get on their site. I mean, I can
24 see where they would want that, because they are a small
25 company, and they don't have the depth to manage some things

1 or the other situation is where they want to be independent of
2 the person because of this very problem.

3 This could be a terrible conflict.

4 MR. CAMPER: Well, sure it could. Let's imagine
5 that you're -- Let's say you're a very sophisticated physicist
6 and in a very sophisticated position. You and Barry decide to
7 perform, you know, mobile imaging. Now you are both very
8 conscientious.

9 You understand radiation safety, understand the
10 regulations, but now you're going to go provide your services
11 to a hospital in a very small community in a very outlying
12 area that's not terribly sophisticated when it comes to
13 radiation safety.

14 MR. WAGNER: But they got a license.

15 MR. CAMPER: But they got a license. You may
16 well want to control and be able to monitor all aspects of
17 radiation safety.

18 MR. LYNCH: I think in most cases, the mobile
19 service does follow all the way through.

20 MR. CAMPER: Yes, I think you're right.

21 MR. LYNCH: But if they are coming into your
22 institution, do you want to have any control over them?

23 CHAIRMAN SIEGEL: Sure you do. Of course. I
24 would.

25 MR. WAGNER: If they are coming into my

1 institution, that's one thing. If they are providing services
2 within their van, and it's confined to the use inside their
3 van, that's another issue. As soon as the patients walk out
4 of there, I'll take responsibility for them, although I don't
5 have any legal requirement to do that, because they are all
6 diagnostic patients; but I expect them to manage the things
7 inside their van.

8 If I go in there and try to tell them they're not
9 doing something right, and they are doing the services and
10 they are in conflict with me, I can see where that creates a
11 problem.

12 CHAIRMAN SIEGEL: Well, we're stuck with this
13 right now.

14 MR. WAGNER: Yes.

15 CHAIRMAN SIEGEL: We're stuck with this Part 35.
16 We're stuck with it right now.

17 MR. WAGNER: Yes, we're stuck with it, but I
18 think that's the reasonable way of dealing with it, is asking
19 them for the information and then making the decision based
20 upon the individual request. So I don't see any problem.

21 MR. CAMPER: Well, and at this point, I mean, the
22 best we can do is get a clear delineation of the arrangement.

23 MR. WAGNER: Yes, right.

24 MR. CAMPER: Who's doing what.

25 MR. WAGNER: Right.

1 CHAIRMAN SIEGEL: The simplest solution to this
2 problem for a small medical institution that uses a mobile
3 service is to get rid of its license and not have a license.
4 Right? Then the mobile service is responsible for the entire
5 service.

6 MR. CAMPER: Yes, and again it would not surprise
7 me if we see that happen. There's two movements that I sense
8 going on. One is I see a consolidation of licenses among
9 small entities that have some corporate arrangement. Possibly
10 some nuclear medicine department is closing, using a more
11 central location, and I also see mobile services as emerging.

12 MR. LYNCH: Then there's a fee issue.

13 MR. CAMPER: Right.

14 CHAIRMAN SIEGEL: Okay. Page 11, transport of
15 radioactive material and purpose. In the middle of that
16 paragraph it says, "Transportation of generators is not
17 authorized by 35.80, other than for base hot lab locations."

18 MS. TAYLOR: We missed that.

19 CHAIRMAN SIEGEL: That's not English, is it?

20 MS. TAYLOR: No. We must have had two thoughts
21 going and didn't fix that. We just need to say transportation
22 generators is not authorized, period.

23 CHAIRMAN SIEGEL: Because a base hot lab,
24 presumably, is not mobile, is it?

25 MR. WAGNER: Could be.

1 MS. TAYLOR: Could be, but normally they still
2 wouldn't be able to transport generators --

3 CHAIRMAN SIEGEL: But then you still can't
4 transport it. Okay. I got it. Fine. I didn't have anything
5 else in that paragraph. Yes, this next thing, 35.25. Tell me
6 a little bit about how you guys are handling 35.25 these days.
7 Bring me up to date.

8 To me, 35.25 is the full employment regulation
9 for NRC inspectors into the next century, because 35.25
10 theoretically can be taken to extreme limits and, in fact,
11 anything that is sort of off base in a radiation safety
12 program could be interpreted as a violation of 35.25. Don't
13 you agree?

14 MR. CAMPER: Well, I look at it a little
15 different than you. I don't quite look it as the NRC full
16 employment thing, and the reason I don't is because the truth
17 of the matter is I think that the degree to which we are
18 scrutinizing supervision today is fairly lax.

19 CHAIRMAN SIEGEL: Well, that's why I asked the
20 question.

21 MR. CAMPER: What I mean is this. Let me tell
22 you what sets this up, and this is part of an even bigger
23 issue that we've, you know, talked about a little bit, you and
24 I, and we talked a little bit about within the ACMUI itself.

25 That's this whole question of what is the role of

1 the authorized user in 1995? The way Part 35 is structured
2 today, if you go back and look at the supervision issue over
3 time, you'll find that there was a time when supervision had
4 specifications associated with it, like being physically
5 present or available within one hour or 15 minutes. Some
6 states, by the way, require that today, but in 1987 we
7 relaxed, if you will, the term supervision.

8 What the Statements of Consideration basically
9 says is that we don't -- we remove the physical requirement,
10 the availability requirement, within some defined period of
11 time, because -- because of the various medical practice
12 statutes within the various states and so forth and so on, and
13 differences in institutions and what goes on in institutions,
14 that the physician is in the best position to determine the
15 degree of supervision that is warranted in their setting.

16 Now from a regulator's standpoint, from our
17 standpoint, that really causes a significant problem for our
18 inspectors, because what it translates into is that our
19 inspectors really don't become overly concerned about
20 supervision issues from authorized user's standpoint until you
21 get into situations like places where the doc flies in once a
22 week, but in the meantime while he's not there, injections are
23 occurring. Scanning is going on.

24 Sometimes that raises problems as to whether or
25 not adequate supervision is taking place, but as you know, --

1 I mean supervision, you can put in place a mechanism, a system
2 for instruction and monitoring. You don't necessarily have to
3 do it yourself. You as a physician can make sure that your
4 chief technologist is properly supervising and monitoring and
5 instructing, and then you're monitoring how that's going on.

6 So it's very wide open today, and one of the
7 things I'd like to see us do when we revise Part 35 is take a
8 close look at what should supervision be today. What's the
9 role of the authorized user today?

10 I would argue that the authorized user in 1995 is
11 not the same thing as it was in 1965 or 1975. You know, back
12 in those days, and you know very well yourself, the AUs were
13 in there working with the technologists closely, hand in hand.
14 You were developing radiopharmaceuticals, new procedures.

15 You know, has the modality matured today to a
16 point where physicians who just want to use materials in the
17 course of the practice of medicine -- are these AUs like we
18 had classically known them; and if they are or they are not,
19 what's the appropriate level of supervision?

20 So supervision is not something that gets dinged
21 too often in violation space. Probably the most striking
22 example is where -- when the QM rule came along and people
23 weren't instructed in the quality management rule, and that
24 became a violation associated with 35.25(a)(1), failure to
25 instruct in QM rule.

1 MR. LYNCH: Or extreme situations.

2 MR. CAMPER: Or extreme situations where it
3 becomes clear to us that supervision is not occurring.
4 Technologists have not been instructed. Then you get into
5 supervision violations, but they're usually pretty striking
6 cases, actually.

7 CHAIRMAN SIEGEL: Is there an appendix in 10.8
8 that gives examples of 35.25((a)(3), that periodically review
9 the supervised individual's use of byproduct material and the
10 records kept to reflect this use? I've always been troubled
11 by not quite knowing exactly what the right paper trail is for
12 that paragraph.

13 MR. CAMPER: No, there's not such an appendix.
14 You know, there's appendices in there to describe the various
15 records that need to be kept. You get examples of the kinds
16 of records you should be keeping.

17 MR. LYNCH: Training. Training is described, how
18 often it should occur.

19 MR. LYNCH: Training.

20 CHAIRMAN SIEGEL: The training is in there.

21 MR. CAMPER: Let me tell you, the best
22 description, I think, that you would find would not be in Reg.
23 Guide 10.8. It would be in the recent Reg. Guide on
24 management of radiation safety programs in medical facilities.
25 We talk a lot in there about reviewing supervised

1 individuals, reviewing the records and that type thing.

2 MS. TAYLOR: The NUREG?

3 MR. CAMPER: The NUREG, NUREG 1560, but not as an
4 appendix in 10.8. No.

5 CHAIRMAN SIEGEL: Okay.

6 MR. WAGNER: The biggest problem with a lot of
7 these guidelines is the fact that, although these are
8 guidelines about what the person should submit, they aren't
9 guidelines as to what would be adequate. The reason is
10 because you're going to run into such variabilities that you
11 don't really know what's adequate until you see what they're
12 doing and then try to assess whether or not what they're doing
13 is adequate for the situation they have.

14 MR. CAMPER: That's a good point, and also even
15 before that, if you take a performance mentality approach --
16 You know, you really want to have some fairly general concepts
17 and guidelines about supervision, because in theory the user
18 or the radiation safety officer is in the best position to
19 reach that level of performance for their institution.

20 So you don't want to intrude too much.

21 MR. WAGNER: That's right.

22 CHAIRMAN SIEGEL: Then this next page gets us to
23 the point where I think you may be intruding too much. How
24 did you decide that --

25 MR. WAGNER: When you indicate the next page,

1 what page?

2 CHAIRMAN SIEGEL: Twelve.

3 MR. CAMPER: Let me -- Can I insert a thought
4 here?

5 CHAIRMAN SIEGEL: The authorized user at least
6 once every 30 days.

7 MR. CAMPER: Let me make a comment on page 11
8 before you do that, if I may, Barry. When you get into a
9 discussion of Item 8, "Individuals Responsible for the
10 Radiation Safety Program," we then move into a discussion of
11 supervision.

12 There is a lot more about the individual
13 responsible for a radiation safety program than only the
14 supervision. There's probably a lot more things that we
15 should be saying about it.

16 MS. TAYLOR: The intent was you only bring in
17 specific things into these modules that are specific to this
18 type of modality. The rest of it's covered in the main body
19 of 10.8. So that is in 10.8, and then they are directed --
20 That would apply to all uses of byproduct material in the
21 medical users, and then we are supposed to address specific
22 things in this guideline, instead of reiterating everything
23 that's in the body of 10.8 into this -- each module.

24 So the purpose of this module is just specific to
25 mobile medical. There is a lot more, but they are told up

1 front at the very beginning. There's a paragraph. There are
2 other things that apply.

3 MR. CAMPER: Yes, you're right.

4 MS. TAYLOR: And you should refer to that and
5 address those issues also.

6 MR. CAMPER: Where are we telling them that?

7 MS. TAYLOR: At the very beginning.

8 MR. CAMPER: What do we say?

9 MS. TAYLOR: On page 1.

10 MR. WAGNER: Yes.

11 MS. TAYLOR: If you look at the first paragraph.

12 MR. WAGNER: In addition to the more general
13 items identified.

14 MR. CAMPER: Well, the only thing I would say,
15 though, is it might be worth a sentence or two in here,
16 specifically drawing their attention to those key items. I
17 mean, the responsibility for the radiation safety program is a
18 big deal, obviously, and it might not be a bad idea to ponder
19 putting in just a sentence or two in there that would draw
20 their attention to specific parts that they need to consider
21 with regard --

22 MS. TAYLOR: Then I think we need to do that for
23 all the other items, too, then; because all of these items do
24 not go into all the information needed for each of those
25 specific -- There's a lot more under radioactive material and

1 purpose. There's a lot more --

2 CHAIRMAN SIEGEL: Well, except the only argument
3 in favor of what Larry is saying or an argument in favor of
4 what Larry is saying is that, because of the physically
5 distributed locations of use in a mobile service, the
6 individual responsible for the radiation safety program has to
7 be able to get around.

8 So if you are going to institutions that have
9 their own licenses, then it's the local radiation safety
10 officers who are going to take the responsibility. If you're
11 going to places that don't have licenses, there has to be a
12 mobile medical service radiation safety officer equivalent who
13 takes over all responsibility, and we need to know something
14 about what it is that individual does to evaluate safe
15 radiation practices, both through supervision and through
16 other things, the necessary environmental monitoring and
17 things of that nature at each site of use.

18 So I think the mobile service does point out a
19 need for that.

20 MS. TAYLOR: So what kind of sentence are you
21 looking for?

22 MR. WAGNER: It seems to me like what you want to
23 point out what's specific. You want to bring to their
24 attention that in addressing the more generalized items of
25 regulatory guide 10.8 that the applicant must keep in mind

1 those issues that are particular to this mobile program in
2 addressing those radiation safety needs.

3 MR. CAMPER: For example.

4 MR. WAGNER: For example.

5 MR. CAMPER: Very articulate.

6 MR. WAGNER: So it's just a matter that you're
7 just calling the attention to it, calling their attention to
8 the fact that they have to specifically design their responses
9 to 10.8 around their mobile --

10 CHAIRMAN SIEGEL: Do you have regular old 10.8
11 there?

12 MR. WAGNER: -- situation.

13 MS. TAYLOR: No.

14 CHAIRMAN SIEGEL: Does anybody have it?

15 MR. CAMPER: Just one more quick thing, since
16 we're back on page 1. I want to mention as an editorial
17 comment, we're referring to Reg. Guide 10.8 revision 3. So
18 this will be the next revision?

19 MS. TAYLOR: We're working with revision 2, and
20 this revision will be revision 3 Reg. Guide 10.8.

21 MR. CAMPER: These modules will go into the
22 existing Reg. Guide.

23 MS. TAYLOR: But they're modifying that, too, and
24 it will be revision 3.

25 MR. CAMPER: Right. That's what I'm saying.

1 Currently, it's revision 2 is what exists. Right? Okay.

2 CHAIRMAN SIEGEL: Okay. Next page. How do you
3 get to this every 30 day thing?

4 MS. TAYLOR: History, I guess.

5 CHAIRMAN SIEGEL: But where? What's the
6 regulatory basis for that? Help me out here. I mean, if
7 someone is doing --

8 MS. TAYLOR: I think that was probably policy
9 when this thing was first issued.

10 MR. WAGNER: Thirty days rolls around real quick.
11 In some small situations, 30 days rolls around real quick.

12 CHAIRMAN SIEGEL: I mean, I can think of
13 circumstances of very limited use where once a year is
14 probably too frequent.

15 MR. WAGNER: And other circumstances where once a
16 week is not frequent enough.

17 MS. TAYLOR: We're asking them to indicate a
18 frequency, and we can evaluate that on the scope of the
19 program at the time.

20 MR. WAGNER: I think what you should do is you
21 should tell them that the frequency of the supervision must be
22 consistent with the volume and type of practice, and that's
23 what it should be, and that they should have the rationale for
24 saying what the time interval should be; but they should
25 specify a time interval for themselves.

1 MR. CAMPER: Yes. I think that's a good
2 suggestion.

3 MS. TAYLOR: I like that.

4 MR. LYNCH: And I think we're trying to provide
5 license reviewers with a little better -- what would be --

6 MR. WAGNER: I think that's very fine, because
7 now it will have to be spelled out by the user what he's going
8 to do. So he has to meet what he says he's going to do, and
9 it has to be approved.

10 CHAIRMAN SIEGEL: If you imagine a van that's
11 traveling around and they're doing bone scans, liver scans,
12 and gated blood pool studies in the van, and that's all they
13 do, what are you going to look at every 30 days to find out
14 whether they're doing it right?

15 MR. LYNCH: It's the same old stuff.

16 MR. CAMPER: Well, let me be the devil's
17 advocate. Barry, let me be the devil's advocate for you. I
18 understand what you're saying when you say it's only nuclear
19 medicine, so forth and so on, but imagine a scenario, if you
20 will, where the van is going out and about. You have a driver
21 and a technologist on board.

22 The technologist will decide to do things like
23 soup up the doses, get the scans done quicker, which has
24 happened even in institutional settings, would decide that, as
25 has happened even in institutional settings, look, all these

1 records every day, these daily surveys and so forth and so on
2 -- this is nonsense. This is small mass material. These are
3 low exposure levels, and I'm just not going to do it, and I'll
4 come back in later on and kind of fill it in.

5 These things happen, unfortunately. Now --

6 CHAIRMAN SIEGEL: But I don't think that mobile
7 is any different with respect to that.

8 MR. CAMPER: Well, it's only different in the
9 sense that the technologist is yet one more step removed
10 physically from the presence of the authorized user. I mean,
11 in a --

12 CHAIRMAN SIEGEL: Unless the authorized user is a
13 radiologist right there in the hospital who is reading those
14 scans as they are coming off the machine.

15 MR. CAMPER: Or unless that radiologist is also
16 walking through the van looking at the books from time to
17 time. I mean, the point is that in a fixed setting, the
18 users, as you know, are moving about in the department. It's
19 much easier to look over and see what kinds of doses are being
20 assayed. Does the dose log look like it's right, and so
21 forth, look at the count rate on the camera, where is it.

22 If all that is occurring out somewhere in a van,
23 the user is not in the van. It's just the potential for that
24 to happen is greater, but again that doesn't necessarily imply
25 that it has to be every 30 days. I'm just saying, it's that

1 kind of possible scenario that makes us wonder whether or not
2 some defined period of time is not appropriate.

3 CHAIRMAN SIEGEL: I got the picture. All right.
4 I didn't have anything else bothering me on page 12.

5 MR. WAGNER: Can I get back to that then? I
6 mean, if that's the case, here you specified 30 days. Is
7 there any guidance that can be given to the user to say should
8 be reviewed over intervals not to exceed such and such, but
9 variable according to the needs; and you wouldn't want to say
10 30 days, but I would disagree that once a year was enough.

11 CHAIRMAN SIEGEL: Oh, I didn't say that was
12 enough either.

13 MR. WAGNER: But I think six months might be.

14 MS. TAYLOR: Then we have no regulatory basis. I
15 mean, that was one of the comments that came out, was the 30
16 days. We have no regulatory basis for a frequency --

17 MR. CAMPER: Yes, this is a "should."

18 MS. TAYLOR: This was policy from previous TAR
19 from the past.

20 MR. WAGNER: But you can make a recommendation in
21 a guideline that -- to tell people that, if they're only going
22 to say they are going to supervise it once a year, you're not
23 going to consider that adequate. You know, you can give an
24 upper limit, and I think my recommendation would be not to
25 exceed six months, but must be -- but may be required to be

1 less, depending on the use and what you're doing, the scope of
2 what you're doing, but it gives them some guidance.

3 I mean, these are people who are going to be
4 writing these things, and Lord knows what they're --

5 MR. LYNCH: One of the things that we wanted to
6 do right in the Reg. Guide is write the Reg. Guide with as
7 much information as we can put in, to make the licensee very
8 clear on what we expect and what we will accept.

9 MR. WAGNER: Right. I think, if you just say
10 something, that it shouldn't exceed six months, but it may be
11 required to be less, depending on the scope and use of the
12 material, and that the user should make a specification as to
13 the intervals he feels most appropriate.

14 MR. LYNCH: Is six months too long?

15 MR. WAGNER: I don't know. That's very hard to
16 say, depending on what -- I can see where six months probably
17 is adequate.

18 MS. TAYLOR: If we say six months, everyone is
19 going to come in and say six months, and then we can't argue
20 with it, if the program seems very huge and it seems like they
21 should be looked at every quarter.

22 MR. WAGNER: Well, you could give an example.
23 You could give examples where in this situation an interval of
24 six months might be required, but in another situation an
25 interval of 30 days may be required.

1 You might be able to do that when you give your
2 examples. You're going to be making up examples for this.
3 Right? Isn't that one of the things that we're going to be
4 doing later on, giving examples?

5 So in the license examples you could say that,
6 what the NRC would approve in this situation, this is a
7 reasonable time; in another situation, it's not. You might
8 not have to write it here, but somewhere you got to have some
9 guidance as to what kind of times you're going to require and
10 not require. I think some examples would be worthwhile. It's
11 got to be variables, and their judgment isn't going to be the
12 same as your judgment.

13 CHAIRMAN SIEGEL: The other question -- Actually,
14 while we're on this, it says the authorized user should review
15 the supervised use. That's actually not what 35 says.
16 Thirty-five says, "The licensee shall..."

17 MR. CAMPER: Well, I was just pondering the same
18 thing, because what if you have a situation where you have a
19 commercial entity and your AU functions as a contract employee
20 of the commercial mobile lab for purposes of image
21 interpretation?

22 Now the licensee is the mobile entity.

23 CHAIRMAN SIEGEL: There has to be a prescribing
24 physician somewhere in the loop, does there not? There has to
25 be someone who wrote the procedure manual. There has to be an

1 implicit prescription to give the drug for the practice of
2 medicine in the state.

3 MS. TAYLOR: But that could be at the client
4 hospital where they are just coming in and --

5 CHAIRMAN SIEGEL: That's correct. I really think
6 it's the licensee. Let's say that the way you've got --
7 You've got a mobile medical service that doesn't have any
8 physicians in its employ, but has a terrific health physicist
9 who runs the program.

10 MR. CAMPER: Right. Exactly.

11 CHAIRMAN SIEGEL: And that's actually the
12 preferred person to be reviewing the use, rather than the
13 radiologist, who couldn't care less. All he wants to do is
14 look at the pictures.

15 MR. CAMPER: Right.

16 MS. TAYLOR: So throughout Item 8, change that to
17 licensee.

18 CHAIRMAN SIEGEL: It wouldn't be a pathologist
19 who became a nuclear medicine physician -- a radiologist.
20 Okay.

21 MR. WAGNER: So it's going to say that the
22 licensee should review the supervised individuals' use of
23 byproduct material on a periodic basis, depending upon the
24 scope and use of --

25 CHAIRMAN SIEGEL: Well, does a mobile service

1 have a radiation safety officer?

2 MR. CAMPER: A radiation safety officer is
3 designated, yes.

4 CHAIRMAN SIEGEL: So then, really, up above
5 shouldn't we indicate the frequency with which the RSO or AU?

6 MR. CAMPER: Well, licensee is a better term,
7 because the licensee can be the users.

8 CHAIRMAN SIEGEL: But that doesn't work for the
9 previous sentence. "Indicate the frequency with which the
10 licensee is physically present..."

11 MR. CAMPER: Or the licensee's representative.

12 MS. TAYLOR: Well, we're going to be changing
13 this whole thing. That will fix itself out.

14 MR. CAMPER: The licensee's representative is
15 physically present.

16 CHAIRMAN SIEGEL: Okay, got it.

17 MR. WAGNER Then the theory is that it will be
18 consistent with the scope of use radioactive material, and
19 then maybe within the examples that you give somewhere, they
20 can go back and see the examples for examples of periodicity.

21 CHAIRMAN SIEGEL: Boy, is this complicated.
22 Remind me never to open --

23 MR. WAGNER Yes, these things -- well, they have
24 some very sticky, very sticky kinds of issues that you can get
25 involved in with crossing state lines as one of them we

1 haven't even addressed yet.

2 CHAIRMAN SIEGEL: Right. Okay. Anything else on
3 page 12? Protected from the elements, up to and including
4 what?

5 MS. TAYLOR: Apparently, someone in --

6 CHAIRMAN SIEGEL: Given the fact that we know
7 that tornadoes are attracted to mobile units of all sorts,
8 it's a well known fact. So how do we think that a mobile
9 nuclear medicine van can be protected from a tornado?

10 MS. TAYLOR: Magic. Well, this came about from
11 talking to someone in Region 2, who apparently had experience
12 with a licensee that had a garage that was pretty rundown, and
13 it really wasn't very secure and what have you. So -- You
14 can't protect them from a tornado.

15 CHAIRMAN SIEGEL: Doesn't say tornado. It says
16 high winds.

17 MS. TAYLOR: Right. Okay.

18 CHAIRMAN SIEGEL: Tornado is a form of high wind.
19 Okay. That's fine. Page 13. On the third line of 10.2.1 and
20 10.3, "...and check all other transported equipment for proper
21 function before medical use at each address of use..."
22 Although that's good practice, it's not Part 35. Part 35
23 doesn't require me to make sure my camera is working. It's
24 good medicine.

25 MR. WAGNER: What do they mean, "all other

1 transported equipment"? Do they want to make sure the toilet
2 flushes?

3 CHAIRMAN SIEGEL: Camera works, toilet flushes.

4 MR. CAMPER: The cameras, dose calibrators.

5 CHAIRMAN SIEGEL: No. Dose calibrators are
6 specifically required. "All other transported..." -- Although
7 I agree with you, you've gone a bridge too far in terms of
8 what -- because the problem is -- and here's the problem. If
9 I put that in a license, even though you don't have the right
10 to force me to put it in a license, it just became a license
11 condition.

12 MR. LYNCH: Well, see, that's what it says in
13 35(a).

14 CHAIRMAN SIEGEL: What?

15 MR. LYNCH: 35.80(b) says, "Check survey
16 instruments and dose calibrators, as described in 35.50 and
17 35.51, and check all other transported equipment for proper
18 function before medical use at each address of use."

19 MR. WAGNER: What does that mean, "all other
20 transported equipment"?

21 CHAIRMAN SIEGEL: So you did that to --

22 MR. CAMPER: We have a regulatory basis. The
23 question is, why do we have the regulatory basis?

24 CHAIRMAN SIEGEL: Because you snuck it in, and
25 nobody caught it.

1 MR. WAGNER: It would be --These are the kinds of
2 problems, though, that gets the users angry a lot of times,
3 because it's so generalized.

4 CHAIRMAN SIEGEL: Right, but again the camera has
5 to be checked.

6 MR. LYNCH: Well, it says for medical use. So
7 that rules out your toilet scenario.

8 CHAIRMAN SIEGEL: And you don't have to check the
9 spark plugs and carburetor in the van.

10 MR. CAMPER: That's an interesting point. I
11 mean, that would seem to get at the gamma camera.

12 CHAIRMAN SIEGEL: It sure does.

13 MR. CAMPER: But you know that we don't require
14 quality assurance, for example, on a gamma camera.

15 CHAIRMAN SIEGEL: Well, from a practical, medical
16 point of view, it's logical that if you're moving gamma
17 cameras around, you want to check them before you use them,
18 because road bumps are more likely to do that, and that may
19 have been the way you snuck it in here.

20 MR. CAMPER: I think the logic was exactly that.
21 I think that there was assumed a higher probability of failure
22 of imaging cameras and so forth because of the transporting.
23 Therefore, this --

24 CHAIRMAN SIEGEL: But it would be interesting to
25 know how you have evaluated whether those checks that have

1 been written in licenses in the past are adequate.

2 MR. LYNCH: We would just ignore, basically,
3 gamma camera checks, even if a licensee --

4 CHAIRMAN SIEGEL: Even though you have the
5 regulatory authority to do it that you didn't know about until
6 I opened my big mouth.

7 MR. CAMPER: Let's adjust that TI. Just kidding,
8 for the record.

9 CHAIRMAN SIEGEL: That's fine.

10 MR. LYNCH: I think we have historically stayed
11 away from it.

12 MR. CAMPER: That's right.

13 CHAIRMAN SIEGEL: Well, though, it actually is
14 important. It's just good medicine to not give a dose of
15 something until you're sure that the camera is going to be
16 able to take a picture.

17 MR. CAMPER: We don't get into that.

18 MS. TAYLOR: That's interesting. I didn't
19 realize that.

20 MR. LYNCH: The states.

21 MR. CAMPER: That's a good point. Now the
22 states, in many cases, do have specific requirements.

23 MR. LYNCH: Right. In most cases, I would say.

24 MR. CAMPER: And they do inspect them, but we do
25 not.

1 CHAIRMAN SIEGEL: This is a clear example of
2 Parkinson's Law, but we're keeping busy here.

3 MS. TAYLOR: As a comment, I notice in 11.9 and
4 there's one beforehand, some of these things we've talked
5 about needing an exemption, I haven't actually quoted the
6 regulation in the exemption. So we'll put a generic, "this
7 will require an exemption from such and such, and you should
8 submit it for whatever." This particular one is delivery to
9 the van.

10 CHAIRMAN SIEGEL: Okay.

11 MR. WAGNER: It's interesting that it does say
12 all other transported equipment, but your second sentence
13 there says, "Describe your procedures for taking survey
14 instruments and the dose calibrator." That, you specifically
15 want.

16 MS. TAYLOR: Yes, but we were just quoting 8ED,
17 and then we want to get into the stuff on the survey meter and
18 the dose calibrator.

19 MR. CAMPER: Yes, we're clearly focusing on the
20 first part of 8ED which draws you with distinction to 35.50-
21 .51.

22 CHAIRMAN SIEGEL: Interesting. Okay. Page 14.
23 I guess you're stuck with therapy not being permitted because
24 of current Part 35.

25 MR. CAMPER: That's right.

1 CHAIRMAN SIEGEL: But you would grant an
2 exemption for therapy if confinement was not required.

3 MS. TAYLOR: Right.

4 CHAIRMAN SIEGEL: Is that correct?

5 MR. CAMPER: Correct. Well, we would consider
6 such an application. We have not granted one yet.

7 CHAIRMAN SIEGEL: Because it's interesting that
8 you would allow -- This allows someone to be given 10
9 millicuries of I-131 for whole body imaging of thyroid
10 carcinoma for imaging in a van, but doesn't allow someone to
11 get 10 millicuries of I-131 for treatment of hyperthyroidism,
12 which is a little bit silly, if you think about it; because
13 the radiation safety considerations are identical.

14 MR. CAMPER: Yes. Currently, if you go back to
15 35.29(a), Barry, it says that the Commission will license
16 mobile nuclear medicine service only in accordance with
17 subparts (d), (e) and (h). So that gives you (d), which is
18 35.100, (e) which is 35.200, and then (h) which is your --

19 CHAIRMAN SIEGEL: It's probably bone
20 densitometry. Is that what that is?

21 MR. CAMPER: Yes.

22 CHAIRMAN SIEGEL: Which is no longer an issue,
23 since everybody is using X-rays. Yes, that -- I mean, that's
24 something for a fix in Part 35 next time around. right?

25 MR. LYNCH: And we're trying to say that we would

1 allow it, but should we go further than we've gone here?

2 CHAIRMAN SIEGEL: Well, I wouldn't necessarily
3 encourage applications. I think there many reasons why
4 getting treated by a mobile service is not the optimal medical
5 arrangement in that the follow-up arrangements are not likely
6 to be real terrific.

7 MR. WAGNER: Screening for pregnancy.

8 CHAIRMAN SIEGEL: Yes. There's a lot of good
9 reasons why it's not the best way to do it, but I think it
10 should be allowed, but --

11 MR. CAMPER: I have a question. I'm reading
12 here. I'm wondering something. Torre, maybe you can help me
13 out. (d), (e) and (h) -- (d) is uptake dilution and
14 excretion. (e) is unsealed byproducts materials for imaging
15 and localization. (f) is radiopharmaceuticals for therapy.

16 CHAIRMAN SIEGEL: Correct.

17 MR. CAMPER: (f) is not cited under 35.29(a).

18 CHAIRMAN SIEGEL: Correct. It's excluded.

19 MS. TAYLOR: That's why they need an exemption.

20 MR. CAMPER: I understand. So are we clear that
21 that requires an exemption?

22 CHAIRMAN SIEGEL: Yes. Oh, yes. In fact, the
23 first line on page 14 in that paragraph.

24 MR. CAMPER: So the idea is that, as we would
25 give it to them, it would clearly require an exemption. Good.

1 Good.

2 MR. LYNCH: But we wanted to point it out as, you
3 know, it is an exemption. We don't necessarily encourage it,
4 but we'll consider it.

5 MR. CAMPER: And the rationale is that it's --
6 Even though it's therapy, it's a releasable -- patient
7 releasable amount. So we've chosen to draw the distinction to
8 that particular category there, as opposed to not considering
9 the other more complicated modalities at this point in time.

10 MR. LYNCH: Somebody could come with an exemption
11 request saying, I want to do CA therapy, 100 millicuries --

12 CHAIRMAN SIEGEL: Which is when you're looking to
13 drive them around in a truck for a week until --

14 MR. CAMPER: Now at some point, we're going to
15 have to come back with guidance, if we ever do move toward
16 licensing, say, a mobile HDR. We'll have to come back and
17 create a separate guidance. Mobile HDR has been licensed by
18 the state of California.

19 CHAIRMAN SIEGEL: Page 15, the second paragraph.
20 When 35.75 becomes revised, you'll need to update that
21 language.

22 MR. CAMPER: That's right. I had the same note.

23 MS. TAYLOR: When will that become final?

24 MR. CAMPER: Well, it has gone to the EDO this
25 week. It will be --

1 MS. TAYLOR: So it will be final before this goes
2 out?

3 MR. CAMPER: Yes, it could.

4 MR. WAGNER What is it going to say?

5 CHAIRMAN SIEGEL: Well, unless John has pulled a
6 fast one on me in the last 10 days, it's going to say that
7 exposure has to be less than 500.

8 MR. CAMPER: Right.

9 CHAIRMAN SIEGEL: And that you have to instruct
10 people if it's more than 100. That's a simple version of what
11 it says.

12 MR. CAMPER: With some particular instruction.

13 MR. WAGNER And nothing about quantities?

14 CHAIRMAN SIEGEL: Well, no -- Yes and no.
15 There's the 500 milligrams as the simple regulation, and then
16 there's the no-brainer regulatory guide approach that says, if
17 you're below this number, you can be assumed to be in
18 compliance.

19 MR. CAMPER: But the language in the rule itself
20 does not say 30 millicuries. Dose driven.

21 CHAIRMAN SIEGEL: It's actually a little more
22 than 30 millicuries, the way it recalculates that, 36
23 millicuries. Okay.

24 MR. LYNCH: Back to 29.9.

25 CHAIRMAN SIEGEL: Yes, that will give you 36.5.

1 No, actually, those will be less of a problem now, because by
2 calculation there's going to be 80 millicurie administrations
3 in people --

4 MR. CAMPER: Let me ask a question here. I have
5 a note in the margin. Bottom of page 14 says, "If you wish to
6 perform radioactive drug therapy procedures, you must request
7 an exemption from this regulation and provide a detailed
8 explanation as to why an exemption is needed. Such requests
9 will be reviewed on a case by case basis."

10 What about I just want to do it for this purpose.
11 I want to provide that service. Is that a reasonable
12 explanation for granting an exemption to do up to 30
13 millicuries of iodine therapy?

14 MR. LYNCH: Because I'm going to provide a
15 service to someone and make it more convenient for them,
16 provide them the service?

17 MR. CAMPER: What I'm saying is we've seen --
18 Obviously, we now know we're treating this category of therapy
19 --

20 CHAIRMAN SIEGEL: I don't think that's a problem.
21 I understand what you're saying, but since it requires an
22 exemption, can you imagine asking for an exemption and not
23 saying why you want the exemption?

24 MR. CAMPER: I understand. What I'm saying is
25 that, let's say I come in and I say in my application I want

1 to provide the service of up to 30 millicuries of iodine
2 therapy as a service.

3 MR. LYNCH: To make more money.

4 MR. CAMPER: No, I want to -- Well, you wouldn't
5 say that. You would say, I want to make this service
6 available to my clients. Is that an acceptable reason for the
7 exemption?

8 One gets the impression from reading this that,
9 you know, if you're going to seek an exemption, there has to
10 be a pretty good reason for doing it because of therapy
11 procedures, and is the availability of the service, in and of
12 itself, an adequate reason? I'm not saying it's not. I'm
13 throwing out the question.

14 CHAIRMAN SIEGEL: Given that mobile nuclear
15 medicine services generally provide services to the kind of
16 less sophisticated clients that you've been discussing, I
17 think that's a reasonable answer to the question.

18 On the other hand, if someone says they want to
19 do mobile nuclear medicine and want to provide it at hospitals
20 in the city of St. Louis, then -- I mean, I can't imagine why
21 anybody would want to compete with Washington University and
22 St. Louis University to provide that service in the city,
23 because of all the hassle that goes with providing that
24 service, the quality management program, the other rigmarole.

25 So I think -- I mean, just say my clients need

1 this service; I want to provide the service. That will be an
2 acceptable reason.

3 MS. TAYLOR: And I'm sure the reason would be
4 it's rural areas, and they don't have access.

5 CHAIRMAN SIEGEL: I assume that the service in
6 St. Louis is not currently pursuing therapy, are they? I
7 don't care. I mean, seems like everybody else in town has
8 stopped doing therapy, and I'm so tired of seeing every
9 hyperthyroid patient in St. Louis, I could scream.

10 MR. WAGNER: Regulatory guide -- Are we on page
11 16?

12 CHAIRMAN SIEGEL: We are trying to get there,
13 yes.

14 MR. WAGNER: Item 2 on page 16, last sentence.
15 "If you determine that bioassays are not required, provide
16 justification for this conclusion." Are there any other
17 guidelines the NRC can give people to give them guidelines as
18 to what justification will be required, what circumstances
19 they accept as being justification not to have to do a
20 bioassay, anything more specific somewhere?

21 MR. LYNCH: The Reg. Guides.

22 MR. WAGNER: Are there Reg. guides that you can
23 refer them to?

24 MR. CAMPER: I understand your question. Let me
25 think for a minute.

1 MS. TAYLOR: It isn't only Reg. Guides per se.
2 There's been a couple of TARs we've been working on.

3 MR. WAGNER: Well, there might be some guides in
4 some other modules, because this only refers to mobile. There
5 might be guides in some other modules saying, if one is making
6 out their license, what would constitute a requirement --

7 MR. CAMPER: An adequate justification.

8 MS. TAYLOR: Well, Sally's guide is pretty much
9 going to require it, because patients covered under her guide
10 are probably going to have to be hospitalized, and bioassays
11 are required under 3.15(a)(8).

12 MR. WAGNER: See, I mean, if you're -- therein
13 lies the rub here. I mean, clearly, if you're going to have
14 patients who are going to require hospitalization, okay,
15 bioassay is probably going to be required. We're talking
16 about all diagnostic here.

17 MR. CAMPER: Yes. When you're above 30, it gets
18 a little simpler, except when you doing capsules, there's some
19 interesting discussions going on today.

20 MR. WAGNER: Of course, but I'm trying to get you
21 to think about whether your guidelines -- what will you
22 accept, and what does a person really have to say here?

23 CHAIRMAN SIEGEL: But that's based on the
24 probability of exceeding X percent of the annual limited
25 intake.

1 MR. WAGNER: Correct.

2 CHAIRMAN SIEGEL: Isn't that what the Part 20
3 guidance is based on here?

4 MR. CAMPER: Yes. That's correct.

5 CHAIRMAN SIEGEL: Okay. So the way you do that,
6 and this is a health physicist calculation -- this is not
7 something you pull out of a table. As you look at -- or maybe
8 it is, and I just don't know those Reg. Guides, but you look
9 at the total amount of I-131 used and the number of people who
10 are going to be using it, and over what period of time, and --

11 MR. WAGNER: Right. That's my whole point,
12 though, here.

13 CHAIRMAN SIEGEL: But that is literally the
14 calculation that is required as part of any license
15 application.

16 MR. WAGNER: I don't disagree with that. My only
17 point here is to tell the person what he's got to do. Here,
18 it's very general. It says, "If you determine that bioassays
19 are not required, provide justification..."

20 CHAIRMAN SIEGEL: Well, don't you think Reg.
21 Guide 8.20 tells you how to go about it?

22 MR. CAMPER: It does. It talks about activity
23 levels, the form in which it exists, and it may be that --

24 CHAIRMAN SIEGEL: And 8.9 is even more detailed.

25 MR. CAMPER: Right, and you're not exceeding

1 those thresholds in terms of quantities or form, as described
2 in those guides, then you can explain that you're not doing
3 that.

4 MR. WAGNER: But you can tell the person. I
5 mean, if you determine that bioassays are not required -- All
6 I'm asking you to do is give the person who is going through
7 this thing, saying, how do I determine that, and go back to
8 here. Well, just be more specific in the statement.

9 MR. CAMPER: Okay. So clarification as to what
10 is acceptable.

11 MR. WAGNER: Yes. If you determine that
12 bioassays are not required, as determined by whatever is in
13 those regulatory guides, provide the information. You're
14 saying provide justification. It's like you're trying to
15 provide something over and above what they've already done.

16 MS. TAYLOR: I'm not really sure what we can put
17 in there. There's so many variables as to why they could
18 determine it's not necessary. I mean, we could just say,
19 please describe how you reached this conclusion, and make it
20 sound a little less harsh.

21 MR. WAGNER: Yes. Yes, you could do that.

22 MR. CAMPER: You could do that. You know, how
23 you reached this conclusion; for example, a discussion of the
24 evaluation.

25 MR. WAGNER: Right.

1 MR. CAMPER: Yes, something like that.

2 MR. WAGNER: The way it's written, it just tells
3 me --

4 MR. CAMPER: It's harsh.

5 MR. WAGNER: And I would sit there and struggle
6 with that, I've got to justify this now after I've gone
7 through all this. Just asking to clarify that.

8 MR. CAMPER: It can be made a little less
9 punitive.

10 MR. WAGNER: There you go. There you go.

11 CHAIRMAN SIEGEL: Okay, next up, emergency
12 procedures. This is another one of these "should equals three
13 hours." how did you get to that number?

14 MS. TAYLOR: I'm sure OGC had a comment on that,
15 too. We didn't get to incorporate all the OGC comments,
16 because we didn't get them, and she was commenting on the
17 basis for these numbers.

18 MR. LYNCH: They didn't comment on that.

19 MS. TAYLOR: They didn't?

20 MR. LYNCH; No.

21 MS. TAYLOR: They did on the 30 days.

22 CHAIRMAN SIEGEL: What did they say about the 30
23 days? They just said how did you get that number?

24 MS. TAYLOR: What's the regulatory basis.

25 CHAIRMAN SIEGEL: I mean, I can -- it's hard for

1 me to understand if unit doses of technician are all that are
2 being used by a mobile service, why are a response time of
3 under three days is necessary. What can happen?

4 MR. LYNCH: Adverse reaction?

5 CHAIRMAN SIEGEL: That's a medical issue.

6 MR. CAMPER: People walking through it, spreading
7 contaminants.

8 MS. TAYLOR: Well, let's not put the time in.
9 Let's just see what they say. There again we get back to the
10 reasons. They're going to come back, well, give us what's
11 acceptable. Is one hour acceptable?

12 MR. CAMPER: Well, I mean, if you just leave tech
13 lying about, syringes spilled.

14 MR. LYNCH: If it's in the hallway and the
15 waiting room, that's not an acceptable situation.

16 MR. CAMPER: That's right. So I'm saying, you
17 have the spread of contamination issue.

18 MR. LYNCH: At least, this limits --

19 MR. WAGNER: But the issue here is quite clear.
20 Why does it have to be the radiation safety officer or the
21 authorized user that's got to show up on the scene? If it's
22 contamination in the area, the chief tech ought to be able to
23 go down there and take care of that issue. Why does he have
24 to respond within three hours, because somebody did that?
25 This happens frequently. They got to clean it up. They know

1 they got to clean it up.

2 MR. CAMPER: Yes, it should be -- or their
3 designee, for one thing.

4 MR. WAGNER: Or a responsible designee. Yes,
5 there you go.

6 MR. CAMPER: That's right, because as a practical
7 matter you've got the one tech out there somewhere, and they
8 had that instruction theory.

9 CHAIRMAN SIEGEL: Well, that person obviously can
10 respond within three hours, because that person is there.

11 MR. WAGNER: Right, and if they just tell you
12 that this person is trained to clean up -- this person as a
13 tech is trained to clean up every kind of isotope we use and
14 that we can't think of anything more serious than what we've
15 got, this is how we're going to do it.

16 MS. TAYLOR: Do we need to segregate out the
17 accidents and spills from the misadministrations and such,
18 because I mean, you're right, an authorized user really is
19 only going to show up in the event of a misadministration.

20 MR. CAMPER: Well, you know how this is written.
21 What was in the mind when it was written was, it wasn't so
22 much that the technologist wouldn't be there. We're not clear
23 about that, by the way, and we need to clarify that the
24 designated responsible for that; but I think what's happened
25 here is the idea that, even if that occurs, that the RSO is

1 going to play an active role in monitoring the situation.

2 MR. WAGNER: Right.

3 MR. CAMPER: And that such active role would
4 dictate that they would be there and see what's going on at
5 least within three hours. Now that raises a question.
6 Couldn't the designated responsible individual go through the
7 appropriate steps to decontaminate, contain the spill,
8 etcetera and through telephone communication with the RSO be
9 providing him with input, you know, like I've cleaned it up,
10 I'm getting, you know, survey meter measurements now of thus and
11 so. I've done wipe tests. They demonstrate thus and so.

12 I mean, does the RSO have to drive all the way
13 across Montana to the van, when telephone communication with a
14 trained, responsible individual could suffice.

15 MR. WAGNER: But then if you give them an
16 exemption for therapy, now you've got a little bit different
17 situation, and then they've got to address that issue, and
18 that comes under quality management program anyway. So I
19 think we have to take the three hours off.

20 MR. CAMPER: Well, it has to be -- The response
21 has to be commensurate with the level of the problem.

22 MR. WAGNER: Level of activity of the individual.
23 They have to be prepared to respond to whatever they do. If
24 they're dealing with just simple diagnostic tests and stuff,
25 then the chief tech is there on site all the time, and he's

1 going to be trained to do these things. So we don't really
2 need to have anybody respond in three hours.

3 CHAIRMAN SIEGEL: Well, I mean, couldn't you even
4 make it more generic than that? Procedures should be
5 submitted -- this first sentence now -- to indicate that the
6 radiation safety officer and/or authorized user will be
7 available to direct the response to incidents.

8 MR. WAGNER: Yes.

9 CHAIRMAN SIEGEL: And that could be telephone.
10 That could be five minutes away and physically present, as
11 opposed to -- You don't want a mobile service being run by a
12 technologist when the only RSO is canoeing up in the Yukon and
13 is not reachable. So there has to be a way to reach someone
14 responsible to figure out how to handle things.

15 MR. CAMPER: But, you know, in this day and time,
16 they could even be reachable while canoeing in the Yukon.

17 CHAIRMAN SIEGEL: If they choose to be.

18 MR. CAMPER: I mean, today pretty much, with
19 telecommunications, satellite link-ups, mobile FAXes,
20 etcetera.

21 MS. TAYLOR: I would worry about somebody who was
22 communicating by satellite.

23 MR. LYNCH: Do we want to give examples here,
24 that three hours would be a reasonable or --

25 CHAIRMAN SIEGEL: Yes, I kind of prefer the

1 example approach as opposed to the "should" approach.

2 MR. WAGNER: Right.

3 MR. CAMPER: The time frame as an example.

4 MR. WAGNER: As an example for a given situation.

5 MR. CAMPER: But, again, it has to be specific to
6 the situation, an iodine scenario.

7 MR. WAGNER: That's entirely different. Right.

8 MR. CAMPER: So we'll do that, Barry. We'll use
9 that timeline as an example, but point out that it must be
10 specific to the event at hand, for example, iodine spill, much
11 more close monitoring, and so forth.

12 MR. WAGNER: It depends on what quantity of
13 iodine, too, you're talking about here.

14 MR. CAMPER: Right. Quantities and isotopes.

15 CHAIRMAN SIEGEL: Yes, I mean, because I -- I'm
16 just thinking. If we had a technician spill occur in the
17 middle of -- while a tech was doing something in the middle of
18 the night and I got a phone call, I can tell you, I'm not
19 going to go to the hospital. I would say, clean it up, tape
20 off the room, post a sign, and I'll see you in the morning.

21 MR. LYNCH: But if you dropped 30 millicuries of
22 I-131 --

23 MR. WAGNER: Of course, you have a different
24 story.

25 CHAIRMAN SIEGEL: I would say, call the radiation

1 safety officer. It's too dangerous.

2 MR. CAMPER: Clean it up, contain it, and call me
3 in the morning.

4 CHAIRMAN SIEGEL: Take two aspirin. Take two
5 potassium nitrates and call me in the morning, immediately.
6 How about that?

7 MR. CAMPER: And put all your swabs in a plastic
8 bag, and call me in the morning.

9 CHAIRMAN SIEGEL: Okay. We're getting punch
10 here.

11 MS. TAYLOR: Yes.

12 MR. CAMPER: Where were we, transportation?

13 MS. TAYLOR: Yes.

14 CHAIRMAN SIEGEL: Transportation.

15 MR. CAMPER: That's pretty straightforward,
16 really. The quarterly audit -- Is that a clear requirement in
17 49, Item b.

18 CHAIRMAN SIEGEL: Where?

19 MR. CAMPER: B, Item b.

20 CHAIRMAN SIEGEL: What page are we on?

21 MR. CAMPER: Seventeen.

22 MS. TAYLOR: Do you know, Jim?

23 MR. LYNCH: I don't know. That's not from 49
24 CFR.

25 MS. TAYLOR: Is that from Bob Gettone? Right?

1 Would it mean 71? It wouldn't mean 71, would it?

2 MR. LYNCH: No.

3 MR. CAMPER: As I read it, at least as written,
4 one gets the impression that that quarterly audit requirement
5 is contained within 49 CFR.

6 MR. LYNCH: I don't believe it is.

7 MR. CAMPER: I'm not certain that it is.

8 MS. TAYLOR: Well, I'll check it.

9 MR. CAMPER: Now we do say "should," but again it
10 would be interesting to know why we're settling on a
11 quarterly.

12 MR. WAGNER: Is that another place where we put
13 in periodic?

14 MR. CAMPER: I'd like to know more about how we
15 arrived at quarterly. I'd like to know about what 49 says
16 exactly.

17 MR. WAGNER: Right.

18 MR. CAMPER: All right. So 18?

19 CHAIRMAN SIEGEL: This storage now -- Again, if
20 the client facility has got a license, does 35.80 preclude --

21 MS. TAYLOR: Yes. You have to bring into each
22 address of use and remove it at the end of each day. So you
23 have to bring it back into your control.

24 MR. CAMPER: Yes, you have to remove it.

25 Currently, as written, you have to remove it. Bring it in,

1 and remove it.

2 MR. WAGNER: Even if they have a license?

3 CHAIRMAN SIEGEL: What if the --

4 MR. CAMPER: Well, someone could --

5 CHAIRMAN SIEGEL: Let's say, a hospital has its
6 own nuclear medicine department, one camera, and they order
7 stuff from Syncor. They have their own waste stream, but
8 because they've got unusually busy, they requested that a
9 mobile service comes and provides them with an extra camera,
10 and before they decide whether they're going to buy another
11 one.

12 So they've got parallel operations going on. So,
13 literally, the stuff that was used by the mobile service
14 cannot enter the waste stream of --

15 MR. CAMPER: That's correct.

16 CHAIRMAN SIEGEL: Okay, that's fine.

17 MR. CAMPER: Now one could pursue an exemption.

18 MS. TAYLOR: It's not just because of this. I
19 think it would be the wastes.

20 CHAIRMAN SIEGEL: Could doses be transported from
21 one licensee to the other?

22 MS. TAYLOR: You can't have wastes at other
23 licensee facilities.

24 MR. CAMPER: right. You have several things
25 going on. You have the restriction here, but you also have

1 the consolidating and integrating of someone else's waste into
2 your waste stream. You can't do that.

3 MS. TAYLOR: You can't do that, because you have
4 to be responsible for it to the end.

5 CHAIRMAN SIEGEL: Can doses be transferred from
6 licensee A to licensee B?

7 MR. CAMPER: Oh, yes, sure. Sure, as long as
8 they meet the criteria. They're either a manufacturer,
9 according to Part 32. They're prepared by an ANP or an AU or
10 someone under the supervision. Yes.

11 MR. WAGNER: That's the way to do it, just
12 transfer it into their storage facility and let it sit there
13 for a few days.

14 MS. TAYLOR: You can't with the waste.

15 MR. WAGNER: You can transfer it over if they're
16 authorized to have it. Sure.

17 MR. LYNCH: Not waste.

18 MR. WAGNER: Why can't -- They're authorized to
19 have that isotope. What does it matter whether you transfer
20 it?

21 MR. CAMPER: Not waste.

22 MS. TAYLOR: They're classified as a waste
23 broker.

24 MR. CAMPER: You're getting to be a waste broker,
25 if you do that.

1 MS. TAYLOR: You're responsible for your material
2 from beginning to end.

3 MR. CAMPER: That's right. You want to collect
4 your waste. If you want to accept waste, you need to be in
5 the waste business.

6 MS. TAYLOR: There's a business out there for
7 you.

8 MR. WAGNER: It seems to me it would be a little
9 bit expensive, but unfortunately, that's the way it is.

10 This next issue on page 18 and 19 is an
11 interesting issue, and I must admit, it's one that sort of
12 really boggles my mind.

13 CHAIRMAN SIEGEL: Which one?

14 MR. WAGNER: The one with excreta. I mean, this
15 is a --

16 MS. TAYLOR: This is the result of a TAR.

17 MR. WAGNER: It's a really difficult issue,
18 because we run into this problem in a different fashion in the
19 state of Texas. What's happened is we had a situation where
20 one hospital injected a patient for a bone scan. It was an
21 elderly patient that was incontinent.

22 The patient had a diaper. The patient was --

23 CHAIRMAN SIEGEL: I had the same note. That's
24 interesting. Go ahead.

25 MR. WAGNER: The patient released -- was released

1 from the hospital, went to an outlying clinic. At the
2 outlying clinic, the patient changed diapers. One of them
3 ended up in a trashcan, which was immediately picked up and
4 taken to a dump site where it set off the radioactive
5 monitors, which caused one heck of a stir and a lot of
6 people's time and effort over this one issue, and then how to
7 resolve it; but the state, unfortunately -- the inspectors
8 were focused on the idea of how do we cite the individual
9 rather than cleaning up the problem, taking care of the issue.

10 It was the contention of the hospital that their
11 responsibility for that radionuclide stopped after the
12 injection of the patient, because that was the legal
13 dissemination and disposal of the isotope, and it's documented
14 on their forms that this is how I disposed of this patient,
15 whatever, and it's done for.

16 Now I was thinking about that. I was thinking,
17 well, what if the patient didn't go to the other site? What
18 if the patient went up to another room, was an inpatient and
19 went to another room, and now you have excreta, and that
20 situation?

21 CHAIRMAN SIEGEL: Let me make sure I understand
22 this. If a patient is not required to be confined under the
23 conditions of 35.75, then you don't really need to do anything
24 --

25 MR. CAMPER: That's correct. You do not.

1 CHAIRMAN SIEGEL: -- to monitor that patient so
2 long as you maintain within the overall environment compliance
3 with Part 20. Correct?

4 MR. CAMPER: That's correct. NCRP has
5 recommendations about diagnostic patients, you know.

6 CHAIRMAN SIEGEL: Right, but diapers are an
7 interesting problem, because they don't end up in the sanitary
8 service system.

9 MR. CAMPER: But from a regulatory standpoint,
10 they're not confined under the least criterion of 35.75, you
11 do not have to do anything about that.

12 MS. TAYLOR: But also, excreta of the medical
13 patients is excluded from anything anyway.

14 CHAIRMAN SIEGEL: No. Excreta goes into the
15 sanitary sewage system.

16 MR. CAMPER: Only if it's into the sanitary
17 sewage system.

18 MR. WAGNER: And that's wherein, I think, lies
19 the rub here on this guideline, in that you're trying to
20 distinguish excreta going into the sanitary sewer line versus
21 excreta going and being disposed in a toilet in a mobile van.

22 MR. CAMPER: Well, the reason is -- Well, the
23 patient excreta is exempt, because it's in a dilution,
24 infinite dilution, whereas in the case of the holding tanks,
25 you do not have infinite dilution. You now have contained

1 radioactivity in a holding tank.

2 MR. WAGNER Well, I think if that's the case,
3 then that's what this guideline should be addressing. This
4 guideline should be addressing that kind of dilution and that
5 kind of problem, if that's what you're trying to get at.

6 The safety issue, as I see it -- Anybody who has
7 a toilet on a van with patients coming in, they're going to
8 have a contamination problem all around that toilet, if they
9 permit the patients to use that toilet. It's going to be
10 there, period.

11 MR. LYNCH: As it is in most nuclear medicine
12 departments.

13 MR. WAGNER: Yes. I mean, it's definitely going
14 to be there, and I can see where the concern is, but I have a
15 hard time seeing that it's going to be --

16 MR. CAMPER: Well, let's take a look at the first
17 on there. We're saying, describing the structure of the
18 holding tank and so forth. How would you spin that
19 differently?

20 MR. WAGNER: I have no idea. I mean, I have a
21 lot of problem with the whole thing.

22 MS. TAYLOR: Do you think they shouldn't allow it
23 at all? We have a TAR in with that right now, and these are
24 the issues that we've come up with between two of our
25 branches.

1 MR. WAGNER: I don't think it's a problem to
2 allow it. The question is what kind of quantities are we
3 talking about? What kind of quantities are they talking
4 about? I mean, this -- To me, this should represent a non-
5 problem. It should be a non-hazard, because (a) what are you
6 usually concerned about?

7 First of all, let's look at internal
8 contamination. It doesn't represent a risk for internal
9 contamination, period. What it does maybe represent a risk is
10 risk from gamma radiation that might emanate from it, but what
11 kind of activities are we going to require for gamma radiation
12 in a holding tank of this facility? Is the holding tank
13 underneath the driver's seat?

14 MS. TAYLOR: Well, these are the questions we've
15 asked.

16 MR. WAGNER: I think that's a reasonable
17 question. Maybe it's underneath the driver's seat or
18 something, just to make sure.

19 MR. CAMPER: Well, we do. We say, you know, we
20 ask, tell us about the structure of the holding tank.

21 MR. WAGNER: Right. Right. Right.

22 MR. CAMPER: Where is it in regard to the public,
23 workers on the van, driver of the van?

24 MR. WAGNER: But are they really responsible for
25 the -- legally responsible for the activity after it's been

1 injected into the patient?

2 MR. LYNCH: Oh, yes. I mean, if the excreta is
3 collected.

4 MR. CAMPER: In this case, they are, yes, because
5 excreta is being collected. It is not being released into the
6 --

7 MR. WAGNER: Where in the regulations would it
8 say that they would be responsible for that? Where in the
9 regulations?

10 MR. CAMPER: Well, I would -- The regulations are
11 explicit. It's the other way. The regulations are explicit
12 that excreta is exempt --

13 MR. WAGNER: That's correct.

14 MR. CAMPER: -- if it's going into the sanitary
15 sewage system.

16 MR. WAGNER: But that doesn't mean -- Yes, that's
17 correct. That, I understand.

18 MR. CAMPER: Well, if I'm not putting excreta
19 into the sanitary sewage system, then I still have
20 responsibility for it. It's not exempt.

21 MR. WAGNER: But they've already injected it into
22 the patient and disposed of it in the patient.

23 CHAIRMAN SIEGEL: I know, but I mean, it's the
24 same thing as if --

25 MR. CAMPER: Well, let's take another example.

1 Let's take another example. Let's take the old studies we use
2 to collect stool. Okay? We were responsible for it.

3 CHAIRMAN SIEGEL: But you can flush it down the
4 toilet when the study was over.

5 MR. CAMPER: Sure. I'm simply saying, though,
6 there was an example where that same stool introduced directly
7 into the sanitary sewage system would have been exempt, but it
8 was not. In that case, we were holding it for purposes of
9 conducting a study. In this case, we're holding it for
10 purposes of convenience to the patient, because patients have
11 to go to the bathroom, but we have the need to hold it until
12 we can release it into a sanitary sewage system.

13 During that holding manipulative process, it's
14 not exempt.

15 CHAIRMAN SIEGEL: So the correct way to handle
16 this is to set up a little outhouse a block away from the van.

17 MR. WAGNER: You don't even need an outhouse,
18 just a little park.

19 MR. CAMPER: All you need is a long tube, a long
20 tube into the nearest toilet.

21 MR. WAGNER: I mean, presumably the excreta from
22 the patient is out of your responsibility, once the patient
23 leaves the van, but it's not out of your responsibility while
24 the patient is in the van. Correct?

25 MR. CAMPER: Right.

1 CHAIRMAN SIEGEL: Say that again, slowly.

2 MR. WAGNER: Your responsibilities leave with the
3 patient leaving your van. You're not responsible for the
4 patient's excreta once he leaves your van.

5 MR. CAMPER: That's correct.

6 MR. WAGNER: And you are responsible for the
7 patient's excreta as long as they are inside your van. I
8 don't know where it says that in the regulations, but -- or
9 where you would find that, if there was interpretation of the
10 regulations. That's fine.

11 Actually, I agree with it. I mean, it's not --
12 As a radiation safety issue, it's quite clear.

13 CHAIRMAN SIEGEL: It really is clear.

14 MR. WAGNER: It's quite clear.

15 CHAIRMAN SIEGEL: Why don't we break for lunch,
16 since we've been having this lovely conversation.

17 MR. CAMPER: I do have one more. One more
18 thought, real quick. That is somewhere in here, and I don't
19 know just where it should be, but I would like to include a
20 paragraph or two that talks about these reciprocity issues.
21 Someone while ago mentioned this idea of crossing state lines.

22 What we need to do is draw to their attention
23 that reciprocity does exist and that they will need to check
24 specifically with the state in which they wish to go to
25 provide services for what is necessary in that state, whether

1 it's a license or whether or not there's some reciprocity
2 arrangement.

3 Most of the states have a reciprocity arrangement
4 with a following need to get a license.

5 CHAIRMAN SIEGEL: Yes.

6 MR. CAMPER: And the time frame for that license
7 requirement is variable. So they're going to need to be aware
8 of that.

9 MR. LYNCH: That's a good point.

10 MR. CAMPER: The fact that you get an NRC license
11 doesn't mean you can go into North Carolina.

12 MR. LYNCH: And we've had that problem already.

13 MR. CAMPER: Yes, that's right.

14 MR. WAGNER: You also said something about
15 talking about therapy exemptions and how does a user go about
16 getting an exemption for therapy. You said you wanted to
17 discuss those things, too. Did you want to give guidance
18 inside here for that? You had mentioned that at the beginning
19 of this morning. I wrote that down in some notes.

20 MS. TAYLOR: Oh, for HDR concerns?

21 MR. WAGNER: It's therapy exemptions. How does a
22 user go about it? I presume what we were talking about is in
23 stages. The first stage would be exemption for therapy under
24 30 millicuries, over 30 millicuries, and how does a user --
25 What guidance do you give the user about applying?

1 CHAIRMAN SIEGEL: Over seems out of the question.

2 MR. WAGNER: That's out of the question.

3 CHAIRMAN SIEGEL: I don't see how you would
4 physically do that.

5 MR. WAGNER: You couldn't do that. That would be
6 inpatient.

7 MR. LYNCH: If you had an arrangement with the
8 hospital right there.

9 MR. CAMPER: Could you administer in the van and
10 then take them into the hospital?

11 MR. WAGNER: I guess you could.

12 CHAIRMAN SIEGEL: Are you supposed to be moving
13 the over 30 millicurie patient through unrestricted areas from
14 the point of administration to the point of confinement? I
15 don't think you are, and nearly all therapy is actually given
16 in the room.

17 MR. LYNCH: No. Some therapy is given in the
18 nuclear medicine department, and they walk in the halls going
19 up.

20 CHAIRMAN SIEGEL: Cancer therapy?

21 MR. LYNCH: Yes.

22 MR. WAGNER: Yes, some people do it backwards.

23 MR. LYNCH: I mean, they do it where they have
24 the hood.

25 MR. WAGNER: It sounds like a really bizarre

1 situation, though. Do we really need to give them guidance
2 about this? I mean, is this really an issue that you see?

3 MR. CAMPER: Well, I think -- I don't recall that
4 exactly, but I think what I was referring to was the guidance
5 with regards to an exemption for under 30.

6 MR. WAGNER For under 30. I think maybe we
7 discussed that already.

8 MR. CAMPER: I think we have, yes. All right.
9 So we've discussed that issue.

10 CHAIRMAN SIEGEL: Were there any other comments
11 that came from these letters that were sufficiently important
12 that we should look at them?

13 MS. TAYLOR: Well, we pretty much --

14 CHAIRMAN SIEGEL: Or have we hit them?

15 MS. TAYLOR: We pretty much hit them or we've
16 already included them and talked about them.

17 CHAIRMAN SIEGEL: Well, I guess --

18 MS. TAYLOR: I'm looking through to make sure
19 there wasn't anything.

20 CHAIRMAN SIEGEL: -- another way to handle it is,
21 if Lou and I see something on the airplane on the way home, we
22 can send you an E-mail message, since you are accepting
23 written comments post-meeting. Right?

24 MR. CAMPER: See, Barry, if you go back to the
25 question you were raising a moment ago, if you go over to

1 35.315, safety precautions, it says, "For each patient or
2 human research subject receiving the radiopharmaceutical
3 therapy and hospitalized for compliance with 35.75 of this
4 chapter, licensee shall provide a private room with a private
5 sanitary facility" as opposed to administering only that
6 private room.

7 Now, you're right, most folks do it that way, but
8 some do administer in the nuke med department and wheel them
9 back upstairs to the private room.

10 CHAIRMAN SIEGEL: The problem is, though, that
11 that patient instantaneously makes unrestricted areas into --
12 in violation of the 2 mr per hour limit when walking from
13 point A to point B.

14 MR. CAMPER: By definition, you're right.

15 CHAIRMAN SIEGEL: So you really -- although we
16 might look the other way, it really shouldn't be. Right?

17 MR. LYNCH: Well, then you assess that. If
18 they're using a hood situation in the laboratory, that limits
19 exposure to the people that are delivering the dose. They
20 take them up the back way in the freight elevator and
21 whatever.

22 MS. TAYLOR: One comment we received --

23 CHAIRMAN SIEGEL: Well, I mean these get
24 sometimes a little bit crazy, as you know.

25 MS. TAYLOR: We received two comments about

1 delivery of material to a van, and we said it had to be with
2 the presence of mobile service personnel. We received a
3 comment from Region 2 and one other region and asked why we
4 wouldn't allow it, if the van was not occupied, because we do
5 in fixed facilities.

6 I think part of our reasoning was that it was a
7 fixed facility within a building. It's not going to so easily
8 disappear and what have you. So that is in a couple of these
9 comments, and we decided not to include that; because we
10 didn't want that.

11 That's really the only one we didn't talk about.

12 MR. WAGNER: Well, there's an issue here on item
13 5 of delivery to a van without the presence of mobile service
14 personnel should be acceptable if the licensee has established
15 adequate security and implemented delivery procedures to
16 ensure the material will only be delivered to their van. If
17 the van is not found, delivery driver will take material back
18 to the supplier.

19 MS. TAYLOR: That's what I was just talking
20 about. We were just concerned --

21 MR. WAGNER: Makes sense to me.

22 MS. TAYLOR: I mean, it would require the
23 pharmacy to have a key to the van.

24 MR. LYNCH: But now you're talking about a
25 vehicle.

1 MS. TAYLOR: Versus a permanent facility.

2 MR. WAGNER: Well, if they have a secured area, I
3 mean, where they store things overnight or whatever, what's
4 the problem? They take it into the van. The driver delivers
5 it to the van. They put it in there. It's inside there.
6 It's a locked door. They come out of the van. The door is
7 locked and they leave. What's the problem? We're talking
8 diagnostic materials, for the most part.

9 MR. CAMPER: It depends upon the security
10 arrangements.

11 MR. WAGNER: Oh, of course. Of course. I mean,
12 the driver would be escorted to the van, open up the van for
13 him. He puts the case inside the van at the designated
14 position. They walk outside. They lock the van, and they
15 leave.

16 MR. CAMPER: Is that adequate in a situation
17 where a van could easily be broken into?

18 MR. WAGNER: Well, not, not if it's easily broken
19 into, but it depends on the security arrangements.

20 MR. CAMPER: Well, I'm saying, it's a van,
21 though, arguably.

22 MR. WAGNER: But it's located on private
23 property. It's at a hospital.

24 MR. CAMPER: So then that depends upon what kind
25 of security arrangements exist for oversight of the van while

1 it's on those premises.

2 MS. TAYLOR: Well, now we've got one TAR in with
3 an exemption that they're going to have to park the van in the
4 street, public street, because the van physically will not
5 fit, and that would be a concern; because you're much more --

6 MR. WAGNER: Of course. Why can't they put that
7 in their application?

8 CHAIRMAN SIEGEL: There's not a real big black
9 market out there for stolen technetium.

10 MR. WAGNER: No, there's not.

11 MR. CAMPER: No, but the idea that technetium, a
12 case of technetium, finds itself in the public domain because
13 some kid breaks into a van and steals it is a problem. At the
14 very least, it's a public perception problem.

15 CHAIRMAN SIEGEL: It's a public perception
16 problem.

17 MR. WAGNER: Yes, right.

18 CHAIRMAN SIEGEL: It has a lot less to do with
19 reality than anything else. Stealing cobalt 60 pieces of
20 steel is one problem.

21 MR. CAMPER: Oh, I understand.

22 CHAIRMAN SIEGEL: Just, you know, put a lot of
23 word salad in. It will be fine.

24 MR. CAMPER: No, you're right. Even in the worst
25 case scenario, if the kid steals and injects himself with it,

1 big deal. Right? It's like having a nuclear medicine
2 procedure, but by the same token, in terms of the eyes of the
3 public, the idea of this case of radioactive materials in the
4 public domain is not acceptable.

5 MS. TAYLOR: You'll have a pharmacy that, oh, I
6 forgot the key or this key is not working for some reason,
7 well, they leave it in the hall overnight, leave it with the
8 van, that's going to be more -- You can't trust completely or
9 put the onus completely on the pharmacy that they will take
10 that material back and not just leave it at the doorstep,
11 because they were told this is an urgent delivery, we
12 absolutely have to have this.

13 MR. WAGNER: In human society, we're never going
14 to have 100 percent guaranty of anything, but I still think
15 we're talking about tornadoes here. We're talking about rare
16 instances, things that are highly unlikely, and there's a
17 certain level of security you can supply, but you will never
18 be able to supply absolute 100 percent, guaranty that
19 something won't happen somewhere.

20 MS. TAYLOR: And that's part of the reason with
21 this facility you're not so concerned, because it's within a
22 building in a hallway versus a van, it's just sitting on the
23 step in the parking lot.

24 CHAIRMAN SIEGEL: Tornadoes are increasing in
25 frequency.

1 MR. CAMPER: In mobile home parks especially.

2 CHAIRMAN SIEGEL: No, no, seriously.

3 MR. CAMPER: No, I know they are.

4 MS. TAYLOR: Well, I guess this is a policy
5 issue, Larry, that we need to talk about inside.

6 CHAIRMAN SIEGEL: In yesterday's New York times
7 there's an article, an extension of this thing that says that
8 there is no pretty clear evidence that the greenhouse effect
9 is really occurring, and one of the things they have observed
10 is that precipitation is now occurring with increasing
11 frequency as huge dumps in large storms of over two inches of
12 precipitation, rather than the more gentle types of rainfall
13 we've had in the past.

14 MS. TAYLOR: Yes, I read that.

15 CHAIRMAN SIEGEL: It said that the greenhouse
16 effect is increasing. I mean, why do you think we've got up
17 to Hurricane Marilyn this year? It's clearly because of the
18 greenhouse effect.

19 MR. WAGNER: Obviously.

20 CHAIRMAN SIEGEL: All right. So I think we're
21 not certain about --

22 MS. TAYLOR: We'll take this up with management.

23 MR. WAGNER: I just have a level of
24 uncomfortableness.

25 MS. TAYLOR: With it being in a parking lot.

1 MR. WAGNER: I've seen these sorts of operations,
2 and I think it has to be taken on a case by case basis.

3 MR. CAMPER: To a point, we certainly have a
4 concern about security when this stuff is out on the parking
5 lots or even on the street, and you're right, though. What we
6 should be looking for is what security arrangements exist.
7 What is the mechanism that the van operator or the van
8 operator in concert with their client are going to put in
9 place to adequately secure the materials against theft, loss,
10 etcetera.

11 MR. WAGNER: One of the things -- They actually
12 may have a camera out there which is monitoring the van from
13 the security desk, you know. That's one thing that you might
14 have, and you certainly wouldn't want to have that if it was
15 in a residential area. You had the van located in a
16 residential area, you know.

17 CHAIRMAN SIEGEL: Are we finished?

18 MR. CAMPER: Well, we're still having a bit of
19 discussion. Is that it?

20 CHAIRMAN SIEGEL: Are we still on the record or
21 off the record?

22 MR. CAMPER: We're still on the record.

23 MR. WAGNER: Well, in any event, I understand
24 your concerns.

25 CHAIRMAN SIEGEL: Shall we adjourn the morning

1 session.

2 (Whereupon, the Committee recessed for lunch at

3 12:01 p.m.)

4