Official Transcript of Proceedings

NUCLEAR REGULATORY COMMISSION

Title: Advisory Committee on Nuclear Waste 146th Meeting

Docket Number: (not applicable)

Location: Rockville, Maryland

Date: Thursday, October 23, 2003

Work Order No.: NRC-1140

Pages 1-48

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1	UNITED STATES OF AMERICA
2	NUCLEAR REGULATORY COMMISSION
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4	ADVISORY COMMITTEE ON NUCLEAR WASTE
5	146TH MEETING
6	+ + + + +
7	THURSDAY
8	OCTOBER 23, 2003
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10	ROCKVILLE, MARYLAND
11	+ + + +
12	The Committee was called to order at 8:30
13	a.m., at the Nuclear Regulatory Commission, Two White
14	Flint North, Room T-2B3, 11545 Rockville Pike, Dr.
15	B. John Garrick, Chairman, presiding.
16	COMMITTEE MEMBERS PRESENT:
17	DR. B. JOHN GARRICK, ACNW Chairman
18	DR. MICHAEL T. RYAN ACNW Vice Chairman
19	DR. GEORGE M. HORNBERGER ACNW Member
20	DR. RUTH F. WEINER ACNW Member
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1	ACNW STAFF PRESENT:	
2	JOHN T. LARKINS	Executive Director, ACNW
3	SHER BAHADUR	Associate Director, ACNW
4	NEIL M. COLEMAN,	ACNW
5	HOWARD J. LARSON	Special Assistant, ACNW
6		Designated Federal Official
7	MICHAEL LEE	ACNW
8	RICHARD K. MAJOR	ACNW
9		
10	ALSO PRESENT:	
11	KRISTINA BANOVAC	NRC/NMSS
12	R.M. BERNERO	SELF
13	TAMARA BLOOM	NMSS/DWM
14	CLAUDIA CRAIG	NMSS/DWM
15	DAVID ESH	NMSS/DWM
16	JOHN GREEVES	DIRECTOR, DWN
17	CAROL HANLON	DOE
18	NORMAN HENDERSON	Bechtel, SAIC Co.
19	TIM KOBERTZ	NMSS/DWN
20	LAWRENCE KOKAJKO	NMSS/DWN
21	TIM MCCARTIN	NMSS/DWN
22	ROD MCCULLEN	NEI
23	JEFF MEREDITH	Exchange Monitor
24	STEVE PETREAULT	Las Vegas Journal
25	BILL REAMER	DWM, Deputy Director

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1	ALSO PRESENT: (CONT.)		
2	BILL REDMEN	NMSS/DWN	
3	JIM SHAFFINE	MTS	
4	SUZANNE STRYZLINSKI	Las Vegas, Nevada	
5	E.V. TIESENHAUSEN	CCCP	
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1	P-R-O-C-E-E-D-I-N-G-S
2	(8:32 a.m.)
3	CHAIRMAN GARRICK: Good morning. Our
4	meeting will come to order. This is the third day of
5	the 146th meeting of the Advisory Committee on Nuclear
6	Waste. My name is John Garrick, Chairman of the ACNW.
7	The other members of the Committee present
8	are Mike Ryan, Vice Chairman; George Hornberger, and
9	Ruth Weiner. Today the Committee will receive its
10	semi-annual update on waste management topics from
11	John Greeves, Director, Division of Waste Management.
12	We are going to meet at 10 o'clock with
13	the NRC Commissioners in the Commissioner's Conference
14	Room, One White Flint North. Periodically the
15	Committee conducts this type of public briefing, and
16	we are following the Commission meeting going to
17	discuss possible committee reports.
18	Howard Larson is the Designated Federal
19	Official for today's initial session, and the meeting
20	is being conducted in accordance with the provisions
21	of the Federal Advisory Committee Act. The Committee
22	has received no written comments or requests for time
23	to make oral statements from members of the public
24	regarding today's sessions, and should anyone wish to
25	address the committee, please make your wishes known

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1	to one of the Committee staff.
2	And it is requested that the speakers use
3	the microphone, identify themselves, and speak clearly
4	and loudly. Okay. John, we are glad to see you, and
5	we are looking forward to our quarterly update.
6	MR. GREEVES: It's good to be here, and
7	how is this mike doing? I can't get but so close to
8	it. Can you hear me okay? All right. Good morning.
9	I am John Greeves, Director of the Division of Waste
10	Management here at the Nuclear Regulatory Commission.
11	And on my left is Bill Reamer, and Bill is
12	going to chime in on a couple of the topics, and let
13	me just say that I enjoy coming to these meetings. It
14	gives me a chance to let you know what is on my mind,
15	and it is a good portion of your workload, and so I
16	find these sessions useful.
17	It gives me a little chance to get some
18	feedback directly from you, and so let's keep it up.
19	First, I would like to welcome Dr. Minor to the
20	meeting. It has been a while since we crossed paths
21	years ago, and so it is a pleasure to start working
22	with you again.
23	And I have the distinct pleasure of I
24	would like to read an acknowledgement of Milt
25	Levenson's term with the ACNW with your permission.

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We enjoyed our time with Milt, and we have in fact the letter from Martin Virgilio, who signed the letter, 2 3 and I would like to read that right into the record. 4 It is pretty short.

5 So with that, "Dear Mr. Levenson, on behalf of the Office of Nuclear Material Safety and 6 7 Safequards, I convey our sincere appreciation for your service on the Advisory Committee on Nuclear Waste. 8 9 We greatly benefitted from the breath and depth of your more than 55 years of experience in virtually 10 every aspect of the U.S. Nuclear program." 11

12 "Your candor and expertise reflected your views on our program over the last 3 years, and have 13 14 made profound and lasting impacts on our work. You 15 helped our staff clarify its understanding of the Yucca Mountain, Nevada, repository system by your 16 illuminating questions and your focus on realism." 17

"Your work on the committee covered 18 19 diverse topics, such as transportation of spent fuel, 20 and decommissioning of the West Valley facility. We 21 are grateful for your service to the U.S. Nuclear 22 Regulatory Commission, and to the staff for your 23 advice that you provided."

24 "It has been a privilege for my staff and 25 me to work with you. We wish you well in continuing

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1	your contributions to public health and safety.
2	Sincerely, Martin Virgillo, Director, Office of
3	Nuclear Material Safety and Safeguards."
4	So we wish that Milt was here to receive
5	this, and we will find another way to get it to him,
б	but again we really appreciate his service, and it has
7	been a pleasure, and he will be missed.
8	CHAIRMAN GARRICK: Thank you.
9	MR. GREEVES: Okay. Sort of again
10	acknowledging, Dr. Garrett, we would like to thank you
11	for your participation at the ICEM Conference at the
12	UK.
13	I was in fact in Vienna at the time that
14	you gave your talk there at the briefing, and people
15	coming over there were acknowledging how well you did
16	in that, and it was much appreciated that you gave
17	that opening talk, and it was quite appreciated in the
18	International community.
19	So I thought you would appreciate a little
20	bit of feedback and maybe we can do a little sidebar
21	discussion about it. So, again, the international
22	community thanks you for coming over and delivering
23	that opening speech.
24	CHAIRMAN GARRICK: My wife enjoyed the
25	ride on the Eye in London.

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MR. GREEVES: It was open that day. I
know that sometimes they have trouble with the
transportation systems. Turning again to the
international front, I feel a responsibility to keep
you and others informed on what is going on that the
staff participated in.
And a significant event is about to take
place, and I have reported on this in the past. This
is the Joint Convention on Spent Fuel and Radioactive
Waste Management, and there are 32 contracting parties
that have joined this particular treaty, including the
United States.
There was a meeting of coordinators in
September to organize the process and I participated
in that process, and the first review meeting of this
joint convention will be held November 3rd through the
14th. So it is right on top of us, and as you can

And in fact Margaret Federline will do the 19 briefing of the U.S. report with the help of the 20 21 Department of Energy, EPA, and the NRC staff, and the 22 delegation will include Patty Dubar from the 23 Department of Energy as the head of the delegation; 24 and Janet Gorn from the Department of State, and Mary 25 Clark from EPA.

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imagine, we have been preparing for that.

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1	So we have a healthy contingent going over
2	to represent the United States at this important
3	meeting. So I just wanted to keep you up to date on
4	that, and I would in fact come back and give you a
5	little bit of a summary of how it went from my
6	perspective in another opportunity like this.
7	One thing that I did want to mention is
8	that as I come to these meetings, I try and keep you
9	informed of any changes in the office with NMSS,
10	because you interact with virtually all of these
11	people.
12	And Eric Leeds, who was the Deputy in Fuel
13	Cycle Safety and Safeguards has moved on to the Deputy
14	Director of Division of Licensing and Project
15	Management in NRR. A good change for Eric, and a good
16	opportunity for him to get some additional experience.
17	And Joe Holanich is coming back to NMSS.
18	He was at ANSER, and I think that almost everybody at
19	the table knows Joe, and he is in Fuel Cycle. He will
20	be the deputy reporting to Bob Pierson.
21	Other changes. Lawrence Kokajko, who has
22	been down here to brief you, Lawrence was in fact
23	acting in the Environment Performance Assessments
24	Branch. He was selected for that position, and so he
25	is the branch chief in that position. Congratulations

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1	to Lawrence.
2	And also Scott Moore, one of our SES
3	candidate program people like Lawrence, was selected
4	for The Rulemaking and Guidance Branch in IMNS,
5	Charlie Miller's branch. So I am sorry to see Scott
6	leave the decommissioning world, but he is promoted
7	over in Rulemaking and Guidance, and I believe the
8	Committee will be seeing him in that capacity.
9	In addition, Gary Janazko, who I believe
10	has come down and briefed you on occasion, is now the
11	branch chief of the Fuel Cycle and Facility Branch.
12	So I don't have a clean copy of this, but I will get
13	this to you so that you can keep track of where these
14	important players have moved in the process.
15	I went a little quick on the Joint
16	Convention. Are there any questions on that?
17	CHAIRMAN GARRICK: Any questions?
18	MR. GREEVES: If any of you have a
19	question, don't hesitate to give me a call. And at
20	this point, I want to turn to West Valley. It is a
21	topic that the Committee has been briefed on over the
22	years, and the staff put together a policy paper, and
23	the committee put together a letter to the Commission,
24	and I think if you study that process and you have
25	you will see that the letter that you wrote had

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1	some impact.
2	You commented that some innovative
3	techniques may need to be considered here, and I am
4	pleased to report that it has progressed. It sort of
5	has taken a long time for this thing to get moving,
б	and it has been going on for a number of years as many
7	of us know.
8	But in the middle of September, we had
9	what we call our regulators meeting, where we get
10	together with the other regulators who participate in
11	this process, and we talk to the Department of Energy
12	and NYSERDA.
13	And in that meeting the Department and
14	NYSERDA were able to come forward and provide their
15	preferred path forward. It isn't exactly the same
16	path forward, but I think this is a milestone, where
17	they have actually crystallized where they think they
18	want to go with this project.
19	And in fact, on Tuesday night I understand
20	that there was a public meeting with the Citizens Task
21	Force up in New York, and my staff was part of this by
22	video conferencing.
23	And both the Department and NYSERDA rolled
24	out what their path forward is, and these and
25	basically the preferred alternative, these are the
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1	issues that are going to have to be addressed in the
2	EIS document. This is the document that the path
3	forward, the one that we need to make progress on, and
4	that frankly had not moved.
5	So I think that this is kind of the
6	trigger that will allow that process to move forward.
7	The NRC is a cooperating agency, and in accordance
8	with the responsibilities under the West Valley
9	Demonstration Act.
10	So we will cooperate in the development of
11	that EIS, and I think it will be quite important to
12	see how that plays out and addresses these preferred
13	alternatives.
14	There is late this month a meeting that
15	DOE is sponsoring for the cooperating agencies to go
16	over the EIS schedule, and to start into the
17	development of this important EIS.
18	Anybody who has looked at this knows that
19	there have been issues and the issues mainly revolve
20	around stewardship, and another issue is about the
21	payment of disposal fees.
22	And in this set of meetings recently the
23	Department identified its preferred alternative, which
24	is partial release and many of you I think have
25	been to this site, and pretty much cleaned most of the

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1	site up, but have restricted release on what we call
2	the North Plateau.
3	And the difference is that NYSERDA would
4	prefer to have free release or unrestricted release of
5	the North Plateau. So this has sort of sharpened up
6	the issues, and I think that was necessary to allow
7	this process to move forward.
8	So again we will be participating in the
9	Environmental Impact Statement, and obviously that
10	will generate comments. We have the Commission policy
11	statement to work from, and I think that this is
12	something that the committee ought to watch over the
13	next months, and even years.
14	Unfortunately, these things will take
15	years to settle out, and you might even consider
16	having the Department come in and brief you on what
17	their path forward is. So I wanted to give you a
18	little bit of an update on that. It is an important
19	national issue, and I think I will stop there and open
20	it for questions on that.
21	CHAIRMAN GARRICK: There is no variation
22	on the goal of unrestricted release, or no
23	alternatives?
24	MR. GREEVES: It is I would invite you
25	to have us come back and give you a better briefing.

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1	Yes, there obviously yes, you do an EIS and you
2	have to look at alternatives. A key though is to cite
3	a preferred alternative.
4	In my view a stumbling block has been
5	there has been anxiety about identifying the preferred
6	alternative, but you really have to state what is the
7	preferred alternative of the entity taking the action
8	in this case.
9	And that helps you understand what the
10	other alternatives are, and what the context of those
11	are, and it allows the public and the stakeholders to
12	ask the hard questions.
13	And at this point in time, it really was
14	not crisped up, and I think they both, being DOE and
15	NYSERDA, have done us a service in terms of defining
16	where they would like to go with this process.
17	I think there is a number of things that
18	they agree on. For example, the State disposal area,
19	I don't think there is any question that needs long
20	term institutional control and would stay where it is.
21	But it would probably take a more complete
22	briefing than you can do in this kind of an
23	environment, and frankly I think this is an area that
24	the Commission would appreciate you having an eye on,
25	and we can talk more off-line about possible outcomes.

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1 But to this point the Department, I think, 2 has identified a clear path forward, and you have had 3 both the Department and NYSERDA I believe down here 4 briefing you in the past. Well, I think we have 5 crossed another threshold here, and it is going to heat up as far as I am concerned. 6 7 In fact, I am going to have to look at two different preferred alternatives, and it is the 8 equivalent of two different decommissioning plans; one 9 with restricted release and one without. 10 11 And even without restricted release, this 12 is a quite complex site, and so it will be on my agenda as I come back, and I think we can talk about 13 14 something more formal than that. 15 CHAIRMAN GARRICK: Okay. Any questions? 16 Okay. Go ahead. 17 MR. GREEVES: The decommissioning program, we come and brief you from time to time about pieces 18 19 of this, and a number of things have happened over the 20 last year, one of which you are familiar with. This 21 is the license -- we call it the license termination 22 rule analysis. 23 We were able to come down and brief you 24 about that. We put together an extensive report to 25 the Commission, and we in fact briefed you in May, I

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1	believe, of this year on that.
2	And it addressed a number of the things
3	that after about 5 or 6 years of experience with the
4	license termination rule, what were the issues that
5	were causing the staff some problems, and where were
6	the interpretations, and where were the policy issues,
7	and we wrapped those up in a paper for the Commission,
8	and submitted them to the Commission.
9	And we have not received the staff
10	requirements memorandum on it yet, but there are like
11	7 or 8 items in there, including restricted release,
12	and additional recommendations on financial assurance,
13	that made some recommendations, and we look forward to
14	the Commission's staff requirements memorandum on
15	that.
16	It has not come out yet, but possibly when
17	it does, we could talk to your staff about the
18	possibility of updating you on that particular
19	process. Right now I think we need to wait until we
20	get that feedback from the Commission.
21	But we are quite pleased with it. It has
22	been quite of a best seller with the industry. A lot
23	of people are looking at it. The other topic that we
24	put together annually, and I think you know this, but
25	we put together a decommissioning program report for

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1	the Commission.
2	It actually started in '89, and the in the
3	'90s, and in that time frame under what we call the
4	site decommissioning management program. We didn't
5	have the clean up rule in that time frame. It took us
6	another 4 or 5 years to get one in place.
7	And it has evolved from what we used to
8	call the SDMP Report, Site Decommissioning Management
9	Program Report, to an annual update, a comprehensive
10	update of the decommissioning program.
11	So we submitted that recently and the
12	staff briefed the Commission on October 7th. It was
13	again a good briefing, and it is kind of the took that
14	is shaping the decommissioning program. It is really
15	soup to nuts.
16	It is all of the uranium and thorium
17	sites. It includes the milltailing (phonetic) sites,
18	and it includes the reactor decommissioning sites. It
19	talks about the issues that the staff is facing. So
20	it is an annual report, and the Commission I think
21	enjoys getting it.
22	I think that they would like to maybe do
23	it a little bit differently in the future, in terms of
24	how we put it together, and use it as kind of a ready
25	reference document.

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So I feel confident that many of the members of the committee are familiar with it, and I know that your staff is, and again this is another area where it helps us communicate, and it gives the Commission a chance to give us some feedback. So again we have not gotten feedback officially on this one either.

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But I would look forward to the response 8 to the Commission, and annually we put together this 9 Maybe it is something that we need to talk 10 report. 11 about in terms of keeping you informed of these 12 processes, and if there is something in there that you are particularly interested in, we could come back and 13 14 brief you on it. The last item doesn't give as much 15

MR. REAMER: John, before you leave that one, I think that is something that the ACNW would be particularly interested in hearing about. You know, you used to give briefings on the SDMP program, and where we were, and this solves the whole thing quite nicely.

I think it would be worthwhile to plan on it, and maybe after you get a response back from the Commission.

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MR. GREEVES: Yes, and it is -- well, just

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1	a little side note. The site decommissioning
2	management program, nobody internationally understands
3	if I talk to them about the SDMP. So it is sort of a
4	legacy of what we used to call this.
5	Once the license termination rule came
6	out, it defined in my view what complex sites are.
7	Complex sites are sites that you need a
8	decommissioning plan for, whether it be a reactor, or
9	a material site.
10	So we are trying to get away from the SDMP
11	terminology and move towards something that is more
12	rule based and performance based, and we have evolved
13	through that, and I think we are just about there.
14	So we can talk on how we might work with
15	the committee and the staff in the future to help this
16	tool work for both of us. On the decommissioning
17	program area, the last one was an internal report,
18	with an evaluation of our own program.
19	The Government Responsibility Act calls
20	for agencies to take a look at themselves, and we did
21	that. We were supposed to look at and conduct a
22	report, and do an evaluation of your program, and so
23	we did that recently, and we looked at the
24	effectiveness of the decommissioning program.
25	We also have some individual improvement

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1	programs that we have looked at over the past, and how
2	effective were those. And we made some
3	recommendations for future improvements, and the
4	office was quite pleased with this. If your staff
5	doesn't have it, it is quite recent.
6	DR. LARKINS: Yes, this is for utility and
7	quality.
8	MR. GREEVES: Yes, it is.
9	DR. LARKINS: And this is another area
10	which I think the committee should hear about and be
11	interested in finding out about.
12	MR. GREEVES: Okay. Well, one, we will
13	make it available to you. It is an internal report,
14	and two, depending on the interest, we can come back
15	and give you a little briefing on how we conducted
16	that. That is kind of it for the
17	moment in decommissioning. So if there are questions
18	on any of those topics or follow-up, I would be happy
19	to address them. Being none, we can come back to it
20	if there is time.
21	Okay. At this point, I would like to turn
22	the mike over to Bill Reamer to address a couple of
23	the high-level waste issues. Bill.
24	MR. REAMER: Thank you, John. I am Bill
25	Reamer, and I am the Deputy Director of the Waste

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1	Management Division, in the Office Of Nuclear Material
2	Safety and Safeguards.
3	I have got three high level waste topics
4	that I will just give a brief overview of their
5	status, because I know that there are topics that the
6	committee is interested in.
7	The first is risk-insights baseline
8	report, which we briefed the committee in maybe June
9	or late spring, or early summer, on the summary report
10	that we provided to the commission and to the
11	committee as well.
12	I think in that context that we provided
13	a path forward, which included preparing a more
14	extensive report, and issuing it and hopefully
15	completing it hopefully in October, and issuing it in
16	that time frame.
17	We are not going to meet that schedule,
18	and where we are right now is that we are fairly far
19	along in completing our draft of the more
20	comprehensive report.
21	Remember that what we are trying to do
22	here is not only assure full coordination between the
23	disciplines in the performance assessment people
24	within the staff of the summary report that we issued
25	in the May and June time frame, and briefed you on,

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23 1 but primarily was the effort of the performance 2 assessment staff. But we want to ensure full coordination 3 4 within the disciplines as well. We are trying to 5 improve the quantitative basis for the insight report that we gave you, and more explicit identification of 6 7 uncertainties. And to be specific about what additional 8 analyses that we plan in the way of path forward, and 9 improve the discussion of the capability of barriers, 10 11 and how we take that into account. 12 I think we will be able to brief the committee in the early part of next year on where we 13 14 are in the more comprehensive report, and my hope is 15 that we will have a draft of our report available, and it will be a pre-decisional document, and I know that 16 presents problems for the committee. 17 But we will work with the staff to deal 18 19 with those problems as much as we can. And I think 20 that rather than speculate on a date that we will 21 issue a public document, I would rather defer that to 22 our briefing in January if we could, or when it is 23 scheduled early in the year, and we will give the 24 committee an explicit time schedule at that point on 25 when we will be ready to go public.

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So that is where we are on the risk insights baseline report. Now, what is important about the staff activities in this area is not only that we are directing our energies and activities toward the risk significance and prioritizing the system in those terms, but also how we are going to use the information.

8 Recently we got the first installment from 9 the Department of Energy of their response to the 293 10 agreements, where they actually grouped their 11 responses, and where they try to provide a technical 12 basis document that deals with an integrated topic.

And then as appendices to that address each of the agreements or group of agreements that is pertinent to that particular aspect or process of the system.

I don't have any preliminary observations to give you on our response to that first DOE deliverable. What we are reviewing right now are technical bases documents on biosphere transport, saturated zone flow in transport, and that is a second one. And the third one is colloids.

We are focused right now on assuring a review process that integrates the risk insights, and that is the front end. You know, our attitude towards

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1	reviewing a document can surely be of course
2	comprehensive and thorough, but we want our review,
3	our more detailed review, to delve into those aspects
4	of the DOE input, the DOE technical basis document.
5	CHAIRMAN GARRICK: And what was the other
6	one? One was flow in transport?
7	MR. REAMER: The biosphere transport, and
8	saturated zone flow, and transport in colloids.
9	MR. GREEVES: These are technical basis
10	documents that DOE produced and gave to us.
11	MR. REAMER: Right. So we are working
12	right now not only on the review, but the review
13	process as well, and I think that is something that we
14	do want to present to the committee at the appropriate
15	time, and how we are conducting this review, because
16	it is clearly a dry run for later reviews, and the
17	extent or the way in which the staff effectively uses
18	risk insights in focusing its review on what matters
19	for safety.
20	So that is a very brief overview on where
21	we are on the response to the 293 agreements and this
22	ranking of those agreements. I would just make one
23	point. The first deliverable from DOE did not because
24	of timing really interface effectively with the
25	document that we issued in May and June in our risk

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1	insights.
2	Timing wise, it was just not my sense
3	is that DOE was not in a position given their schedule
4	and what they committed to us, to backfit our insights
5	into theirs.
б	So we have asked that in the future, to
7	the extent that we can, to the extent that DOE can,
8	that it give consideration and attention to the
9	conclusions of the staff, the preliminary conclusions
10	that the staff has reached with respect to risk.
11	DR. LARKINS: Bill, let me ask just a
12	clarifying question. These technical basis documents
13	will satisfy a number of the agreements, or
14	potentially close out
15	MR. REAMER: Yes. For example, the
16	biosphere transport agreement addressed the biosphere
17	transport technical basis document, and addressed
18	seven of the agreements.
19	The saturated zone flow and transport
20	technical basis document addressed 24 agreements; and
21	the colloids addressed 10 agreements just as an
22	example.
23	DR. LARKINS: Okay. So if you find them
24	satisfactory then, then I guess the numbers of things
25	that we may be talking about later today will change

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1	drastically?
2	MR. REAMER: Yes. The goal here is to
3	have DOE address all of the 293 agreements, and to
4	address them in a way that assures that the staff has
5	the information that they need in order to conduct the
6	review.
7	That would be the outcome of this review
8	if the response to the technical basis document and
9	the supporting appendices are sufficient in the
10	staff's review.
11	DR. LARKINS: No, I understand that. But
12	just as a matter of status, it looks like a number of
13	things are starting to come in now that you need to
14	wade through in order to see whether they satisfy what
15	was asked for.
16	MR. REAMER: Yes. The last item is INS
17	activity. I have a technical exchange this summer on
18	probability. and DOE presented a plan, a path forward,
19	to address the staff's questions and its agreements in
20	the area of probability.
21	The plan at a high level was in the
22	staff's view responsive. The plan included new
23	aeromatic survey data. the drilling of selected
24	anomalies, and age dating samples, and reconvening the
25	elicitation handle that DOE held some time ago.

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That plan hasn't formally been submitted to us. We expect that it will be submitted in the near future, and hopefully later this month. The plan includes information being delivered after the license application, and so the staff will have to consider how the plan is responsive to the staff's need to have sufficient information to begin the review in this area.

9 consequence, we already have one On 10 technical basis document from DOE dealing with or in 11 the biosphere area. We expect that additional 12 documents, technical basis documents, will be forthcoming on magna interactions. 13

Our understanding of DOE's schedule is that those should be expected by the end of this month. Once we have those documents in-hand, I think we will be in a position to know the appropriate date to schedule a technical exchange with DOE on consequence.

I don't want to prejudge when that will be, and we really need to have the DOE documents first in order to make that decision. And then just to scope the schedule out to the end, and a final technical basis document is due in May of 2004 on redistribution.

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1 And that would cover the water front, as 2 well as the October deliverables in the concept area. Two items that I had mentioned that we are doing at a 3 4 staff level at the center, efforts continue, 5 investigative efforts continue on the modeling of consequence and ash redistribution. 6 7 And in addition with the center, the staff is looking at the TPA code in the INS area from the 8 9 standpoint of (inaudible) realism in the code, and we hope that these activities will be completed early in 10 11 the spring of next year. 12 So that is an update on three topics. Ι know that the committee is interested in the high 13 14 level, and if there are other high level topics, 15 please feel free to raise them. 16 CHAIRMAN GARRICK: Do you have any 17 comments? Go ahead, Ruth. DR. WEINER: Could you just elucidate a 18 19 little bit what the delay is in the risk insights You said that it is behind schedule. 20 report? Ts 21 there some reason or is it just generally taking 22 longer than you expected? 23 MR. REAMER: I think it is a little of 24 both, but Tim, do you feel -- Tim McCartin of the staff, who is kind of leading our effort here, maybe 25

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1	he can give a little more information on that.
2	MR. MCCARTIN: Yeah, I think that is
3	pretty accurate. It is a little of both. Adding to
4	the quantitative basis and the discussions throughout
5	both the NRC here and at the center, a lot of good
6	ideas have come up and just writing them down.
7	And as the person who committed to the
8	October date, I probably was a little more optimistic
9	than I should have been. I have been accused of that
10	before, but we are pretty far along.
11	There has been a lot of good discussion
12	and as I said, we think we will have a draft done by
13	the end of this month, and further work through in
14	November.
15	MR. REAMER: And I think what we want to
16	do is to assure effective interface with the
17	committee, and I really think that the briefing early
18	next year, or the presentation early next year in
19	getting you and assuming that it is acceptable to
20	the committee, the predecisional draft, so that you
21	can get a sense of where the staff is going, and to
22	help inform you with respect to that, will help us
23	keep momentum here.
24	This is a very important topic, and we
25	don't want to lose momentum, and we don't want a delay

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1	to impact us.
2	CHAIRMAN GARRICK: Okay.
3	MR. GREEVES: All right.
4	CHAIRMAN GARRICK: Go ahead.
5	MR. GREEVES: Shall I move on? The sort
6	of last item on my list is low level waste. Although
7	this space is a small program, it has big impacts
8	nationally, and the committee has been following it
9	for a long time.
10	And just sort of an update, and some of
11	you are probably aware of this, but at the September
12	low level waste forum meeting, the State of South
13	Carolina announced that they have a very small amount
14	of uncommitted space remaining at Barnwell for out of
15	region generators through 2008 when they shut down the
16	out of region.
17	So the music is sort of stopping, and the
18	question is does everybody have a chair,a nd so the
19	Barnwell facility set out this schedule for wrapping
20	down what they would take, and when they would stop
21	taking waste.
22	And again the amount of space that
23	remains, based on projections, is not big enough based
24	on the projections of what the out-of-state compact
25	licensees have looked for in the past.

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1 So they have been very successful in 2 assigning out of region generators for long term was not at the meeting, but I 3 commitments. Ι 4 understand that there may be some wriggle room in the 5 process. For example, within the region, if the 6 7 utilities, for example, decide to store the waste for a while longer, that might allow some more room within 8 the time between now and 2008. 9 But this whole issue of disposal capacity 10 11 is starting to come home and roost, and it is a topic 12 that the NRC, the committee, needs to have an eye on and an understanding of. 13 14 And so I just wanted to make sure that you 15 were aware of that. I will just keeping moving unless 16 you have a question on that. But separately the National Academy is doing a study on low activity 17 Dr. Ryan is guite familiar with this. 18 waste. He is the vice chair and the chair is 19 20 David Leroy, and they just put out an interim report, 21 and I hope the committee -- it is available, and if 22 you don't have copies of it, we can provide them. Ι 23 am sure that Dr. Ryan can provide them also. 24 It is a two-phased study. The first 25 report summarizes the sources, the forms quantities,

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1	hazards of low activity waste, and it also summarizes
2	the current policies and practices in this country, in
3	terms of handling low level radioactive waste.
4	The second phase will provide an
5	assessment of technical and policy options, and
6	possibly ways of improving low activity waste
7	disposal, and management, and regulation.
8	And when you look at the report, you will
9	see that they made four findings, the first of which
10	is that the current statutes and regulations provide
11	adequate protection. I think that was something that
12	we were all looking for, and obviously we have
13	concluded that it provides adequate protection.
14	But the finding goes on and identifies
15	that it may be less workable in the future. It refers
16	to it as a patchwork approach, which when you look at
17	the overlap of the legislation that we have, that is
18	a word that does come to mind.
19	The second finding is that it is a complex
20	system, and that a more consistent and simpler
21	performance based, risk informed approach is
22	desirable.
23	The third finding is that some categories
24	have not received consistent regulatory oversight, and
25	it calls out norm and t-norm, uranium thorium and

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1	things like that as an example.
2	And then the fifth one is that current
3	regulations are not based on a systematic
4	consideration of risk. We did get a little bit of a
5	briefing on this, and the committee has funding to
6	start the second report, but not enough to finish it.
7	So I think that they are going to be
8	looking around for some more funding as part of this
9	process, and Dr. Ryan probably knows more about that
10	than I do.
11	But it is a topic that we should follow,
12	and at some point in time it would probably be good to
13	have the committee, and I don't know how Dr. Ryan does
14	that, but it comes in and briefs the group. Have they
15	been in here and briefed on this topic in the past?
16	Well, it is one that we are certainly
17	following. We provided funding for this, the
18	Department of Energy did, and I think the Southern
19	States Energy Board did.
20	They also have received funding from the
21	French Government, and the Japanese Government. There
22	is a lot of interest in this topic. I took a trip to
23	France and looked at the Louvre facility, and some of
24	the others which are world-class facilities.
25	The French have a facility there that

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1	looks like the designs that we came up with back in
2	the '80s and that we never really built. And life is
3	a bit simpler in France, where it is pretty much
4	government-owned and operated.
5	So in any event that is my understanding
6	of the status, and Dr. Ryan can
7	DR. RYAN: It is all set, John.
8	MR. REAMER: Well, we will follow it, and
9	we appreciate your work, and we will look to further
10	discussions on this. So I just wanted to let the
11	committee know that.
12	CHAIRMAN GARRICK: John, where is the
13	energy coming from to deal with this question of low
14	level waste disposal capacity, and what is the NRC's
15	role? It sounds like a very looming serious problem,
16	and it is very fuzzy to me as to what we are doing
17	about it.
18	MR. GREEVES: It is kind of a three-
19	dimensional chess game is what it is. My view is that
20	the NRC responsibility is public health and safety.
21	And we have a set of regulations to regulate the
22	commercial sector, and the committee concludes current
23	statutes and regulations provide adequate protections.
24	So our Part 61 disposal regulations are
25	requirements of how you store waste, and how you

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1	package it, et cetera, all seems to be working as long
2	as there is a through put system, being disposal
3	capacity.
4	If you look around the world the countries
5	that are having trouble are the ones that don't have
6	disposal capacity; Canada, Germany, Italy. They don't
7	have any disposal capacity. They store.
8	Well, again, the NRC's responsibility is
9	safety, and my view is that we have demonstrated
10	internationally that we know how to dispose of waste,
11	and in this country we currently have disposal
12	capacity.
13	So I think we would look to the results of
14	this report on any improvements of that process. But
15	the actual issue of disposal capacity resides in the
16	various pieces of legislation.
17	The politics within States in compacts.
18	I mean, if you look at what is going on with the
19	reactor at San Onofre, you know, why does this thing
20	have to move from the West Coast to the East Coast,
21	which by the way is not all that easy either.
22	So, you asked the question about the
23	looming issue. Two or three times a year, I go to
24	these low level waste meetings, and I went last year,

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1	no disposal capacity issue. That was a year ago.
2	Now, I just reported to you in one
3	quadrant, being Barnwell, things are tightening up.
4	It doesn't surprise me, but then you have to evaluate
5	what is going on in Texas.
6	Texas put through legislation and of
7	course we have seen this before. The skeptics out
8	there say, well, we have seen a lot of these go
9	forward before. But in any event, Texas just put in
10	legislation for two facilities, one a commercial, and
11	one a DOE facility, and they are writing their
12	regulations.
13	So on one hand, you have that in front of
14	you that could come along and help fill out the
15	disposal capacity issue. The committee, I am sure, is
16	aware of this also in Utah, which right now is the
17	workhorse for Class A waste.
18	They actually have a license for B and C
19	waste, which is the category that is going to be
20	suffering with Barnwell's volume shutting down. But
21	that license actually has never been implemented
22	because they need and I am not an expert on the
23	next steps, but I think it is the Governor's approval,
24	and they need one legislative approval.
25	DR. RYAN: It is a legislative step as

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2	MR. GREEVES: Yes, there is a couple, and
3	which have never occurred. And they are doing a
4	study. So depending on how much you worry about
5	things like this, if you are an optimist, you could
6	say, well, Envirocare is going to come along in a few
7	years, and Texas will have something, and the
8	destination will shift with the velocity. Dr. Ryan.
9	DR. RYAN: John, you have done a great job
10	of summarizing it, and I think it his important to
11	realize that it is not so much a strict capacity
12	issue, but it is access to the capacity, because the
13	access really I mean, it is not a question of
14	having space in a disposal facility.
15	It is a matter of a political decision or
16	some other type of decision that either allows or
17	disallows access. Barnwell, for example, has
18	volumetric capacity under the license to go past what
19	the restrictions that are now in place.
20	You know, Envirocare has capacity and
21	Texas is at least as you have highlighted in the early
22	stages of capacity. So it is not so much strictly
23	capacity as it is access to existing capacity, and
24	again I think you recognize, too, that all during this
25	period the generation of volume of low level

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1	radioactive waste has dropped dramatically.
2	MR. GREEVES: But the curies are still
3	there.
4	DR. RYAN: The curies are still there, but
5	the volume is not, because the curies are in the Class
6	C hardware for the most part.
7	MR. GREEVES: Correct.
8	DR. RYAN: But well said, It is a good
9	summary. But I really think that the focus is not so
10	much capacity of new sites as access to capacity, and
11	whether it is a new or an old site.
12	MR. GREEVES: It is probably a better
13	word.
14	DR. RYAN: But at the same time the
15	General Accounting Office is looking again at this
16	topic. They did a report and I think it was a good 3
17	years ago, and made some conclusions at the time that
18	the compacting process was not working to satisfy this
19	issue.
20	That it could be Federalized, or we could
21	just limp along the way we are now. Now, they really
22	weren't hard conclusions in that report as I recall,
23	but they are back looking at it again. So they are
24	quite interested in the Academies' study and I am sure
25	they will be interested in what is going on at

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1	Barnwell, and Envirocare, and Texas.
2	But again it is sort of like a judgment
3	call. The bottom line is that we have safe storage
4	and disposal of radioactive waste in this country in
5	the commercial sector.
6	And I think the Academy much said that
7	that in the short term in their findings, and whether
8	we 5 or 10 years from how will be in trouble with
9	another, let's say, wave of decommissioning activities
10	in the reactors, and that is the question.
11	CHAIRMAN GARRICK: Well, of course I
12	realize that the NRC's responsibility is to health and
13	safety, but it seems to me that there is an inherent
14	accountability there that says that if the NRC has big
15	worries, somehow those worries ought to be made known
16	to somebody, Congress or whomever, and if our health
17	and safety perspective is a proactive one.
18	MR. GREEVES: But let me just and I am
19	talking for me and not for the Commission, but are the
20	worries big?
21	CHAIRMAN GARRICK: Well, the only reason
22	I picked up on it is that you started off your
23	discussion on low level waste that there is that as
24	an issue that disposal capacity was an issue.
25	MR. GREEVES: Yes. And at the same time

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how worried you are about that is tempered by what
went on in Michigan for years. I mean, they stored
waste for Dr. Ryan, you will remember for a long
number of years, and the Canadians have no disposal
capacity.
They store waste. So it is not on face a
health and safety issue, but it certainly is
preferable to have disposal capacity. And the problem
with storage is that it is an opportunity for stuff to
leak through the floor boards and go into the ground,
which is one of the other topics that I talked about,
about the legacy of poor storage conditions.
CHAIRMAN GARRICK: Ruth.
DR. WEINER: I am very interested that the
compact of modes seems to be under consideration, and

12 about the legacy of 13 CHAIRMAN 14 DR. WEIN the 15 compact of modes seems to be under consideration, and I think that is a good idea. I was one of the authors 16 17 of Initiative 383 in Washington State, which led to the 1980 Act. 18

19 And the compact seemed like a good idea at 20 time. There was precedent for interstate the 21 compacts, and it has turned out to be a real headache 22 for this, because it kind of ups a lot of the antes. 23 24 I was wondering if this is a good place to

25 apply risk insights, because Mike is quite right. The

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1	problem is not capacity. It is access to capacity,
2	and the whole compact structure came into being before
3	we were considering risk.
4	In fact, the Act was passed before EPA
5	started to look even at risk-based regulations. So I
б	would suggest that perhaps that you can break some of
7	this access impasse by looking at risk considerations.
8	MR. GREEVES: I am amenable to that, but
9	we just need
10	DR. WEINER: I don't know how you can get
11	this started, and I am very gratified that the GAO is
12	looking at Federalizing the process, rather than
13	having it be on a State-by-State, compact-by-compact
14	basis, because those compacts have been turned into a
15	nightmare.
16	MR. GREEVES: I will just leave that one
17	in. I think that individually that risk insights can
18	go a long ways towards helping you understand what the
19	right thing to do is, but it also is a political
20	issue, and that results in things like reactors moving
21	from San Onofre, or at least the plan is to move from
22	San Onofre all the way around the horn, and back up
23	the East Coast, because there is no access to that
24	utility on the West Coast.
25	So I expect that we will talk more about

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1	this in future meetings. I think in one way or
2	another that I have covered all my notes. So I am
3	happy to go to other issues if there is something else
4	on your mind, or to go back on one of these.
5	CHAIRMAN GARRICK: Any questions? George?
6	DR. HORNBERGER: No.
7	CHAIRMAN GARRICK: You know, one thing
8	that we keep hearing, John, when you talk to us is
9	about West Valley, and the Committee has written a
10	letter on that some time ago, but we have always
11	struggled a little bit as to what or how we can make
12	a contribution there.
13	So you don't need to respond to it, but if
14	there is any specific issues that the committee can
15	advise you on, we would certainly appreciate that.
16	MR. GREEVES: Good. We will take a look
17	at it, and maybe talk to John Larkins about it. The
18	thing that is going to happen is we are going to
19	effectively get a decommissioning plan for that major
20	site.
21	CHAIRMAN GARRICK: Yes.
22	MR. GREEVES: And it is bigger than
23	anything else I have ever it is not Yucca Mountain,
24	but it is bigger than anything else that I have looked
25	at.

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1	CHAIRMAN GARRICK: I see.
2	MR. GREEVES: It is more complicated, and
3	we have looked at the tanks at Idaho and Valley River,
4	but we only looked at them in a kind of small way. We
5	are responsible for looking at the whole site here,
б	and responsible for participating in the EIS.
7	So it is probably the biggest
8	decommissioning project that I have faced as a
9	regulator. So I enjoy the interaction with you, and
10	we will think about it and ways to engage on that.
11	MR. LARSON: I was going to say that the
12	one thing that the committee has been told is that
13	once they got the performance assessment, whenever
14	that comes in, that that might be something that the
15	staff would talk to the committee about as far as one
16	for a very complex site, because the committee has
17	never really heard how the rules, the reason the rules
18	apply to a complex site.
19	CHAIRMAN GARRICK: Is that a site-wide
20	performance assessment?
21	MR. GREEVES: Yes, it is. It is going to
22	have to include and in fact we need to
23	understanding what is the contribution of the State
24	disposal area, if there were any, to the North
25	Plateau. So it is a site-wide and you have to do

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1	this for the environmental impact statement.
2	You don't have to necessarily do our
3	licensing to include that, but for the EIS, you have
4	to account for what is in the neighborhood, and this
5	site has the State disposal there, which is one of the
6	old low level waste disposal sites.
7	It is also what we can the NDA, which is
8	an on-site disposal site has quite a few queries in
9	it. So like I said, it is going to be a challenge for
10	us, and there may be wisdom in carrying on a dialogue.
11	DR. HORNBERGER: So, John, the NRC is
12	participating in the EIS, a participant in the EIS?
13	MR. GREEVES: Yes, we are cooperating.
14	DR. HORNBERGER: So what does that mean?
15	Does that mean that you have staff people who are
16	working on the EIS?
17	MR. GREEVES: Yes. The Department of
18	Energy and NISERDA are the well, the Department of
19	Energy is the lead Federal Agency. So they are
20	writing the EIS, and cooperating agencies come in and
21	in their area of expertise lend to that review
22	process.
23	DR. HORNBERGER: So what area of expertise
24	are you lending?
25	MR. GREEVES: Well, the regulatory

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46 1 performance assessment. 2 DR. HORNBERGER: So a fraction of an FTE, 3 an FTE? 4 MR. GREEVES: Oh, no, no. It is several 5 FTE. Okay. 6 DR. HORNBERGER: MR. GREEVES: It is a substantive effort. 7 8 9 I think you answered the DR. WEINER: 10 question. Performance assessment is going to be part 11 of the EIS? 12 You have to do it to MR. GREEVES: understand what is going on, yes. 13 14 DR. WEINER: So it will actually be a 15 chapter in the EIS, or a section, or something? 16 MR. GREEVES: I am not that close to it, 17 but it is going to be in there. There will be -there is somebody in the room that works on this, but 18 I think we will come back and probably give you a 19 little better briefing on the details. 20 21 MR. LEE: In the past both the staff here 22 and at the center have been helping to develop the 23 computational modules for the EIS, and it is a pretty 24 sophisticated model that they are trying to develop, 25 and with a shallow water table, and a landscape

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1	evolution. It is a pretty interesting site.
2	MR. GREEVES: And the EIS is really just
3	a piece of this, because we actually hold the license
4	for this piece of real estate, and ultimately we are
5	going to have to take some kind of licensing action on
б	it.
7	And we have asked the Department together
8	to essentially a decommissioning plan, and the license
9	is in abeyance at this time. But we are going to need
10	a tool to take the licensing action. We asked the
11	Department would you at least follow the same kind of
12	procedures that we do for reactor decommissioning, and
13	large site decommissioning.
14	And they saw the wisdom of that, and they
15	said, yes, we will put together in addition to the EIS
16	a decommissioning plan that essentially does the same
17	thing that we are doing at reactor decommissioning
18	sites, and complex decommissioning sites, because it
19	will be the basis ultimately for us to make a
20	licensing decision.
21	CHAIRMAN GARRICK: Any other questions?
22	Well, John and Bill, you have distinguished yourself
23	well by honoring our schedule. We are right on
24	schedule. So thank you very much.
25	MR. GREEVES: Thank you for the time.

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1	CHAIRMAN GARRICK: I guess that ends our
2	court-reporting requirement does it not? So we are
3	off the record now.
4	(Whereupon, at 9:30 a.m., the meeting was
5	concluded.)
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