UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

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BRIEFING ON PROPOSED RULEMAKING ON DECOMMISSIONING OF NUCLEAR POWER REACTORS

PUBLIC MEETING

Nuclear Regulatory Commission One White Flint North Rockville, Maryland

Thursday, July 21, 1994

The Commission met in open session, pursuant to notice, at 3:00 p.m., Ivan Selin,

Chairman, presiding.

COMMISSIONERS PRESENT:

IVAN SELIN, Chairman of the Commission KENNETH C. ROGERS, Commissioner E. GAIL de PLANQUE, Commissioner

WASHINGTON, D.C. 20005

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STAFF SEATED AT THE COMMISSION TABLE:

KAREN D. CYR, General Counsel

JOHN HOYLE, Acting Secretary

JAMES TAYLOR, Executive Director for Operations

WILLIAM RUSSELL, Director, NRR

STUART TREBY, Assistant General Counsel for Rulemaking and Fuel Cycle

BRIAN GRIMES, Director, Division of Operating Reactor Support, NRR

SEYMOUR WEISS, Director, Non-Power Reactor and Decommissioning Project Directorate

MALCOLM KNAPP, Director, Division of Waste Management, NMSS

CHERYL TROTTIER, Radiation Protection and Health Effects Branch, RES

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1	P-R-O-C-E-E-D-I-N-G-S
2	3:00 p.m.
3	CHAIRMAN SELIN: Good afternoon, folks.
4	Today, this afternoon, we have before us
5	the paper that we're going to be briefed by the Office
6	of General Counsel and the staff on the proposed rule
7	on decommissioning of nuclear power reactors. A year
8	ago the Commission directed the staff and the Office
9	of General Counsel to prepare a notice of proposed
10	rulemaking to amend the decommissioning regulations in
11	Part 50. There are a lot of issues involved in the
12	rulemaking, but they basically come down to a fairly
13	simple set of questions. On the one hand, there's a
14	set of activities that's allowed to an operating
15	reactor and so one could extend and say, if they're
16	allowed to an operating reactor, why should they not
17	be allowed to an operator that's being shut down,
18	that's been shut down? On the other hand, the
19	Commission is committed to a policy of public hearings
20	on decommissioning plans.
21	So, we have sort of a health and safety
22	consideration and principle of simplification in one

consideration and principle of simplification in one direction and in the other direction we have a principle of openness and communication with the public before final decisions are taken on a

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1	decommissioning approach. This is an area in which
2	there is, depending on where you start, you might come
3	up with somewhat different results. So, the staff has
4	done a paper to address this issue. I think they've
5	illuminated the issue very well.
6	Commissioner Rogers, did you care to say
7	something?
8	COMMISSIONER ROGERS: Well, I'd like very
9	much to hear from the staff, but I have some serious
10	concerns about the approach being taken here.
11	CHAIRMAN SELIN: Commissioner de Planque?
12	Do you want to vote before or after?
13	COMMISSIONER de PLANQUE: I'll wait.
14	CHAIRMAN SELIN: Mr. Taylor?
15	MR. TAYLOR: Good afternoon. With me at
16	the table are Sy Weiss, Brian Grimes and Bill Russell
17	from NRR, Stu Treby from the General Counsel's Office,
18	Mal Knapp from NMSS, and Cheryl Trottier from
19	Research.
20	Mr. Chairman, you summed up the bulk of
21	the staff's position. I would note, of course, that
22	there are two proposed options. The first option was
23	to codify the directions previously given to us by the
24	Commission by SRM and allowing a wide use of the 50.59
25	process and option 2 was developed by the staff after

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1 a great deal of internal discussion as a means to 2 provide other -- a different approach. We did keep in 3 mind how well the work at Yankee Rowe had gone, but we also recognized that you're writing a rule ultimately 4 5 which would apply to decommissioning of many, many 6 reactors. Ι would note that the some of 7 decommissionings, for example the decommissioning at 8 Fort St. Vrain which has gone quite well, we had 9 approved a decommissioning plan and had expended many 10 staff hours in review of that plan. We believe that it has had some impact on really the safe and 11 12 effective manner with which the plan is being 13 decommissioned.

We were cognizant that some plants could go potentially into SAFSTOR for a period of time and talent at the site may decrease and then after five or ten years they might go into decommissioning. So, some of the aspects of those kinds of problems were in our mind when we developed option 2 as well, of course, the concern for public participation.

Rather than my elaborating further, I'll turn to the formal presenters. First, Stu Treby will go through some of the reasoning of where we are and then Bill Russell will add to that as needed from the staff side.

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1	So, Stu, ready?
2	MR. TREBY: Yes. The purpose, as you have
3	indicated, Mr. Chairman, is to hear from the staff
4	about a proposed rulemaking package setting forth a
5	process to be followed by a nuclear power reactor
6	licensee from the time that the nuclear power reactor
7	licensee determines to permanently cease operations
8	through the approval of a decommissioning plan. In
9	fact, we have one or two provisions that go beyond
10	that point.
11	(Slide) May I have slide 2, and we will
12	start with a very brief background for the need for
13	this proposed rulemaking package.
14	The current regulations provide a
15	decommissioning procedure. That is the regulations
16	provide that five years before the licensee expected
17	end of operation of the plant the licensee is to
18	submit a preliminary decommissioning plan containing
19	a cost estimate for decommissioning costs and up-to-
20	date assessment of the major technical factors that
21	could affect planning for decommissioning.
22	Then, two years following permanent
23	cessation of operation, but no later than one year
24	prior to expiration of the license, the licensee
25	submits an application to surrender a license

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voluntarily and to decommission the facility together 1 2 with environmental report an covering the 3 decommissioning activities. The application is to be accompanied or preceded by a proposed decommissioning 4 includes description 5 plan that а of the decommissioning alternative chosen and a financial 6 plan to provide assurance of the availability of 7 8 adequate funds for completion of the decommissioning. 9 Now, while premature decommissioning can 10 and has occurred, the regulations and associated guide

11 with this regulatory scheme that I have briefly 12 summarized, does not set forth any information with 13 regard to timing and specific activities that might be 14 taken between cessation of operation and the approval 15 of the decommissioning plan.

16 So, the Commission, after the Shoreham proceeding, requested that the Office of General 17 18 Counsel provide them with a report of the lessons 19 learned from the Shoreham proceeding, which the 20 Commission did in the SECY set forth in the slide. Following the public meeting on that presentation, the 21 Commission issued two SRMs to the staff to direct 22 23 these issues. The first SRM was January 14, 1993. In Commission indicated that 24 that SRM, the after 25 permanent shutdown of the facility, 10 CFR 50.59,

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that's the provision providing for changes, should be applied on the basis of an assumption that the facility will not resume operation.

4 It also provided for the use of decommissioning funds and before approval of the 5 decommissioning plan, and finally set forth some 6 7 guidance as to when licensees should be allowed to 8 undertake any decommissioning activities. That quidance was that they should be allowed to do so 9 provided that it does not foreclose the release of the 10 site for possible unrestricted use. Two, significant 11 12 increase decommissioning costs. Three, cause any significant environmental 13 impact not previously 14 reviewed or, four, violate the terms of the licensee's existing license. 15

16 Following the issuance of that SRM, a 17 second SRM was issued on June 30, 1993, setting forth 18 certain directives to the staff to prepare proposed rulemaking adopting some of the recommendations that 19 20 were set forth in SECY-92-382, but also providing the staff with specific directions. I think that those 21 22 directions could be indicated as concerning timing of when activities could take place and, secondly, what 23 kinds of activities could take place between the time 24 25 of permanent cessation of activities and the approval

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of the decommissioning plan.

1	of the decommissioning plan.
2	As Mr. Taylor has indicated, the staff has
3	proposed two options in the proposed Commission paper
4	pending before you, SECY-94-179. The first option
5	sets forth a proposed rule in conformance with the
6	direction that the Commission provided in the SRM of
7	June 30, 1993. Option Number 2 provides some
8	supplemental provisions dealing with possible
9	restrictions of the use of 50.59 and public
10	participation, which I will describe further.
11	Before I get further into my presentation,
12	I'd like to set out briefly some preliminary matters.
12 13	I'd like to set out briefly some preliminary matters. First, I've provided a number of slides. The purpose
13	First, I've provided a number of slides. The purpose
13 14	First, I've provided a number of slides. The purpose for those slides is to have ready access to the
13 14 15	First, I've provided a number of slides. The purpose for those slides is to have ready access to the Commission for what the SRM requirements were and the
13 14 15 16	First, I've provided a number of slides. The purpose for those slides is to have ready access to the Commission for what the SRM requirements were and the proposed provisions. I don't expect to go through
13 14 15 16 17	First, I've provided a number of slides. The purpose for those slides is to have ready access to the Commission for what the SRM requirements were and the proposed provisions. I don't expect to go through each of those slides in great detail.

20

friends around the table.

21 MR. TREBY: The second point I'd like to 22 make is that what I propose to do is to go through the 23 first option 1 and set forth just what that proposed 24 regulatory scheme would be step by step and then, 25 after we complete that, then go through the proposed

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modifications in option 2.

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(Slide) So, starting with slide 6, let me 2 3 indicate what step 1 would be, which would be the certification of permanent cessation of operation. 4 This regulatory process would begin when a nuclear 5 power reactor licensee determined to cease operations. 6 7 The proposed rule would provide that the licensee 8 shall, that's a mandatory requirement, submit within 9 30 days a written certification to the NRC.

10 I might add, although I didn't put it on 11 the slide, that it was recognized that there might be 12 circumstances in which the licensee may be ordered to 13 permanently cease operation. For example, by the NRC 14 or by a state agency such as the Public Utility 15 Commission. The amendment to this section addresses 16 this situation by extending the requirement to certify 17 when a legally effective order to permanently cease 18 operation has taken effect against the nuclear power reactor. 19

CHAIRMAN SELIN: Mr. Treby, the questions of an amendment or the conditions aren't really so controversial as the conflict between being able to do 50.59 steps one at a time versus having a plan approved. So, in order to leave enough time for the discussion, I'd like to suggest you concentrate on

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	11
1	really the basic issues in option 1 and option 2,
2	since they are very basic issues.
3	MR. TREBY: Right. Well, let me
4	CHAIRMAN SELIN: Did you want to say
5	something?
6	COMMISSIONER de PLANQUE: Yes. However,
7	on that issue, in the paper there's something strange
8	and I don't know how you would pursue this in
9	practice. But the point that since this is a license
10	amendment, if the decommissioning time exceeded the 40
11	year licensing period, there's an indication that
12	you'd have to go in for license renewal.
13	MR. TREBY: That is correct because it is
14	still the same operating license that was originally
15	granted. And the staff recognizes that that is a
16	question that begs for some resolution
17	COMMISSIONER de PLANQUE: Yes.
18	MR. TREBY: and we expect to provide a
19	paper to the Commission addressing that issue in the
20	near future.
21	COMMISSIONER de PLANQUE: Certainly I
22	would not expect that to be license renewal under the
23	license renewal structure.
24	CHAIRMAN SELIN: I don't even understand
25	that point. On the materials side, we extend licenses
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way beyond the lifetime of the license if it takes 1 2 that long to clean up a site. You know, licenses 3 expire, we reinstitute the licenses. You know, we say, you have to stay there until you clean this up. 4 If you're continuing to treat 5 MS. CYR: this as a utilization facility license under 103, 6 there is a time limit in the statute of 40 years, 7 which is why we -- into the license renewal. 8 9 CHAIRMAN SELIN: Right. 10 MS. CYR: So, as long as this is continued 11 to be viewed by the Agency as a facility license under 12 103, then the 40 year time limit applies. It doesn't 13 mean that if it is in a shutdown condition or in the 14 process of being decommissioned that you would have to 15 use a process such as we described in Part 54 for 16 license renewal, but there would be some process to 17 renew the license, much as you might say for materials 18 license. But it's a different process we would have 19 to prescribe than what we have --20 CHAIRMAN SELIN: So that's just an open issue to be addressed. 21 22 COMMISSIONER de PLANQUE: It's an open 23 issue. 24 MR. TAYLOR: Yes. Yes. 25 CHAIRMAN SELIN: Minimal technical --NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1323 RHODE ISLAND AVENUE, N.W. (202) 234-4433 WASHINGTON, D.C. 20005

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MR. RUSSELL: When we talk about it later, 1 for example the applicability of the maintenance rule, 2 3 we're talking about as it relates to the scope of activities that may be required, for example, for 4 assuring spent fuel pool cooling, et cetera. 5 Those 6 are the issues we'd be fundamentally concerned about 7 and would likely be the focus of any request for extension of a license. 8 9 COMMISSIONER de PLANQUE: One can envision 10 that the technical problems are not significant here, 11 but the legal ones may be enormous. 12 CHAIRMAN SELIN: The technical ones are 13 not trivial either. If DOE doesn't take the fuel and 14 it's going to have to be there for 20 years after the 15 plant closes down, clearly there has to be a new 16 status. It's not just the problem of cleaning up an inert site, but operating systems that are required to 17 18 maintain safety after the plant stops operating. 19 MR. RUSSELL: Continuing to maintain them. 20 CHAIRMAN SELIN: Right. Okay. So, there 21 are more issues than I realized. 22 MR. TAYLOR: We have more coming to you. 23 MR. TREBY: Well, very rapidly, let me 24 just indicate that there are a number of steps set out 25 in this procedure. The first step is to certify the

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permanent cessation of operation. The second step 1 would be for the licensee to apply for a possession 2 3 only license amendment, which we have discussed. The third step would be in our regulations we provide in 4 those circumstances, which we wouldn't expect to be 5 very often, when they didn't apply for a possession 6 only license amendment because of the financial 7 8 incentives, that we might certify -- that we might 9 issue a confirmatory shutdown order to assure ourselves that a licensee who has indicated that it 10 was going to permanently shut down will not restart 11 operation without prior NRC approval. 12

The third step was to identify a subset of 13 14 Part 50 regulations and clarify the applicability or 15 non-applicability of those regulations to a possession only license amendment holder. I might add that with 16 17 regard to those which we find the applicability would terminate, that would be an advantage to the licensee 18 because it would free him from the burden of applying 19 20 for numerous exemptions in license amendments, which is the current practice. 21

The fourth step in this process would involve early notification by licensees to the NRC of post-shutdown plans and activities. Pursuant to the January 14, '93 guidance, there's a wide latitude of

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activities that the licensees can perform. And as I will discuss further with regard to 50.59, there's also a lot of activities that could be performed under that regulation. Accordingly, we thought it would be important for resource allocation purposes and just for the general purpose of knowing what the licensees were planning to do to provide for early notification to the NRC.

9 We have a two-step process. The first 10 step would be that after they have determined to 11 permanently cease operations, the licensees should 12 come forth with a preliminary report in which they 13 would set forth those activities which they plan to 14 accomplish between the period of their permanent 15 shutdown and the time the of approval of а 16 decommissioning plan. There would be a mandatory public meeting held by the staff on that preliminary 17 18 report which would be noticed in the newspapers and 19 appropriate other means of communicating that 20 information.

The main purpose for this early meeting is to make sure that the people around the facility, the local population, get some early information as to what is being proposed by the licensee here. They will have gotten notice that the licensee intends to

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permanently cease operation, but it is hoped that this report would come out sufficiently promptly after that certification that there could be early information to the locally affected population.

The second early notification requirement 5 provided for in this proposed rule would provide for 6 7 those significant decommissioning activities that the licensee submit a more detailed information to the NRC 8 9 just as to how they intended to perform those 10 activities. This information is to be provided 90 days before the licensee intends to perform the 11 activity to provide the staff an opportunity to review 12 those things and through a process of sort of negative 13 indicate 14 consent whether or not it has any 15 difficulties with what's being proposed. If it has no 16 difficulties, it won't pass on any concerns to the 17 licensee and the licensee, after the 90 days, can move forward with its activities. If the staff does have 18 19 some difficulty, then the staff would be able to raise 20 those difficulties and perhaps require more information from the licensee. 21

In a way, this is sort of a codification of the process that we went through with Yankee Rowe where they did provide us, a little earlier on, information as to how they planned to go about

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1	performing some of their decommissioning activities.
2	While it may not have been 90 days, there was some
3	period for the staff to review and to indicate through
4	a negative consent format that it had no particular
5	difficulties.
6	CHAIRMAN SELIN: Didn't you say that
7	maybe you didn't say this, that the short-term plan
8	would accompany a decommissioning plan and that these
9	would be the steps that would be taken
10	MR. TREBY: No.
11	CHAIRMAN SELIN: No. They'd be in advance
12	of the decommissioning plan?
13	MR. TREBY: Yes. The short-term plan
14	would be prior to any filing of the decommissioning
15	plan. It would be filed hopefully shortly after the
16	certification of permanent cessation. However, there
17	is no time limit set forth in the regulations. We
18	expected that the licensees, based on past practice,
19	would file these things daily, soon on, and we didn't
20	want to set an arbitrary time for them to do that.
21	The time limit would be at least 90 days before they
22	wanted to do something significant because of the
23	second early notification requirement that that
24	information would have to be docketed 90 days in
25	advance.

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The fifth step in this process is the applicability of 10 CFR 50.59, which is the provision which permits licensees to make changes to their facilities and to conduct tests and experiments without obtaining prior Commission approval.

(Slide) As noted in slide 29, 6 the Commission directed the staff to make 50.59 expressly 7 applicable to holders of licenses not authorizing 8 operation and, as set forth in slide 31, this would be 9 done by a simple statement indicating that Section 10 50.59 shall apply to each applicant and each holder of 11 12 a possession only license. There are no restrictions on the applicability of 50.59 under this option and, 13 accordingly, most any activity which the licensee 14 would propose to perform could be done under 50.59, 15 provided the applicant could make -- or the licensee 16 could make the necessary findings and provided that 17 the negative consent format that we just previously 18 discussed was satisfied. 19

20 Step 6, or the last step before we get into option 2, is that the staff and OGC recommends 21 that the rules be amended to indicate that the 22 decommissioning plan shall be a supplement to the 23 final safety analysis report and the requirements for 24 updating reporting 25 would be extended to the

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19 decommissioning plan. The reason for this is to 1 assure that the staff is kept informed of any changes 2 that might be made in the decommissioning plan and it 3 4 can do so as it is kept informed of other changes 5 through amendments to the FSAR. This now brings us to option 2, which 6 would provide additional provisions to control the 7 range of decommissioning activities which a licensee 8 9 could undertake without Commission approval subsequent to the permanent cessation of operations and prior to 10 the decommissioning plan approval. 11 12 (Slide) If we look at slide 33, that indicates that the guidance which the Commission set 13 out in its January 1993 SRM would be codified so as to 14 indicate the criteria that would be used by the staff 15 in making a negative determination with regard to 16 looking at the 50.59 submittal that would be provided 17 by the licensee. 18 19 (Slide) If we look now at slide 32, this 20 slide sets forth the limitations that are being 21 proposed on any 50.59 activity that the licensee might 22 suggest. 23 CHAIRMAN SELIN: These are option 2 limitations. 24 MR. 25 **TREBY:** These are the option 2 NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1323 RHODE ISLAND AVENUE, N.W. WASHINGTON, D.C. 20005

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1 || limitations, right.

The first one is the There are four. 2 licensee would not be able to modify the structure. 3 4 The second is the licensee would not be able to modify 5 the spent fuel storage system or support system. Three. they wouldn't be allowed to do any 6 7 dismantlement for that involved greater than Class C waste. And the fourth one is to do any major 8 9 structural changes to major radioactive components of the facilities. 10

Now, the staff and OGC recognized that 11 notwithstanding the fact that these limitations 12 identify those activities which think 13 we the 14 Commission should approve before they are accomplished by the licensee pursuant to a 50.59 regime in which 15 16 they would not require staff approval, we do recognize that these things may need to be accomplished because 17 special circumstances 18 of such window as а of opportunity to be able to dispose of low-level waste 19 20 or an opportunity to save the ratepayers some money by performing the activities sooner rather than later. 21

So, the staff has proposed that a licensee could come to the staff and make an application to do principally the fourth item, make a major structural change, but do so by requesting a partial

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decommissioning plan approval from the staff. 1 So, 2 essentially, what this change is is that when you have 3 an item such as the fourth one and perhaps an activity such as removing steam generators, what the staff is 4 5 now proposing is that this is an item which should be 6 approved by the Commission and we are providing a 7 provision for making that -- for providing that 8 approval by requesting the licensee to submit a 9 partial decommissioning plan application to the staff. 10 CHAIRMAN SELIN: And what are the hearing 11 rights that go with that? 12 MR. TREBY: The hearing rights that would go with that would be to provide for an informal or 13 14 what we call Subpart L type hearing. 15 CHAIRMAN SELIN: And how does that differ? 16 It's informal in the sense MR. TREBY: that it's usually one administrative law judge instead 17 18 of the usual panel of three and the procedures are 19 different than the more formal adjudicatory process 20 that we have under Subpart G of Part 2. 21 CHAIRMAN SELIN: You don't have cross 22 examination and therefore you don't have discovery? 23 MR. TREBY: That's correct. 24 CHAIRMAN SELIN: But what about -- how 25 does that differ from the procedure that would be NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1323 RHODE ISLAND AVENUE, N.W. WASHINGTON, D.C. 20005

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1	involved in reviewing the entire decommissioning plan?
2	The hearing procedure is the same procedure basically.
3	MR. TREBY: It would be the same
4	procedure. However, since it would be a much more
5	limited request, it presumably would be less.
6	CHAIRMAN SELIN: Could I stop you?
7	MR. TREBY: Oh, certainly.
8	CHAIRMAN SELIN: I think I have stopped
9	you. But let me just go back a little bit. I'll tell
10	you what I've learned since the last time the
11	Commission voted on this piece, what I think I didn't
12	understand at the time.
13	50.59 is a provision for making small
14	steps within an operating concept which has been
15	approved, its in tech specs, it's had public hearings,
16	an operating license has been issued. These are steps
17	within an overall philosophy and the idea behind the
18	50.59 for an operating reactor is that we should be
19	reasonable about small differences that don't affect
20	the basic concept which has gone through a thorough
21	all right. It's only incidental that they don't have
22	a safety significance. It's not incidental, but the
23	main question is not do these points have a safety
24	significance, but are they within an overall concept
25	which has had proper public hearings and proper

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overall review?

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When we have a plant that's been closed 2 3 down, that's been shut down, we're talking about steps where there hasn't been an approved decommissioning 4 The question really isn't is the individual 5 plan. 6 step of moving the steam generator safe in itself, the question is are we taking steps within a concept which 7 8 has been approved and gone through a proper set of 9 public hearings, whatever they may be for the 10 situation, or are we looking at decommissioning as a sequence of individual steps, each of which is safe as 11 12 opposed to looking at it as an overall plan that's 13 been approved?

14 So, the one thing that concerns me with --15 well, a lot of things concern me, but I really think 16 that there's some very good work in here. But the one 17 thing that concerns me, and that's not addressed specifically, is if I'm a licensee and I say, "I just 18 19 want to remove the steam generators. I have an 20 Hanford has decided they'll take steam opening. 21 generators this week, they have a special on steam 22 generators for out of compact states and I want to 23 remove that. So, I just want to have a limited 24 decommissioning plan," and the staff decides to have 25 an informal hearing. Is the overall decommissioning

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plan something that can be discussed at that point? In other words, is it SAFSTOR or not or can they only discuss the safety of removing those steam generators at that point?

I tell you, the answer is very important 5 6 to me because I'm not particularly interested in the 7 local resident's opinion about the safety of removing 8 the steam generator. I mean I'm interested, but I 9 believe the staff is expert on that. I'm very much 10 interested in what they think about the overall 11 process and how they feel about which decommissioning 12 approach, what have you. So, if the hearing is very 13 much constrained to that one point, it's not clear 14 that the hearing -- to me, it's not clear that the 15 hearing will accomplish the real objective, which is 16 to keep from irrevocable steps being taken until they've had a chance for new discussion of these 17 18 steps.

MR. TREBY: Let me just make one brief statement and then I'll let Mr. Russell expand.

I guess my answer would be that since there's a limited activity that's being proposed, from a safety point of view you would only look at that limited activity. However, from a NEPA point of view or what the impacts might be on the environment and

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1	the impacts on the alternatives that are available, I
2	think it might be a wider scope.
3	CHAIRMAN SELIN: And therefore, what's the
4	answer? In other words, the hearing would address
5	other than strict health and safety would attract
6	environmental questions as well?
7	MS. CYR: The question is whether the
8	particular in terms of looking at whether you've
9	impermissibly segmented your look under NEPA, is
10	whether the step that you propose to take has some
11	independent utility with respect to the ultimate
12	undertaking that you have here. So, it's something
13	that you would have to undertake at some point in time
14	anyway and then you undertake it under any of the
15	particular options that you would use, which in this
16	case is getting to unrestricted release of the site
17	for use.
18	So, I think that in terms of a scope of
19	NEPA, that you would argue that you would not
20	impermissibly segment NEPA by carving out this small
21	piece and looking at it from this standpoint.
22	CHAIRMAN SELIN: Let's take the specific
23	case of removing steam generators. If you're removing
24	steam generators, do you still have a SAFSTOR option
25	or is it, for all intents and purposes, been
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preempted? You know, you have hero's paradox. You can take any step and break it down into an infinite number of infinitesimal steps and then you never really address the overall question. No one of them takes away your option. But you look around and you say two-thirds of the plant is gone, so do we still have that option?

8 MR. TREBY: Well, I think it depends on 9 how many of these steps are taken. I would think that 10 if it's just one or two, then we have held that 11 SAFSTOR can accommodate some partial dismantlement 12 ahead of time. But if it becomes so cumulative that 13 it's everything except the carting away of the final 14 containment concrete, then perhaps you have --

15 COMMISSIONER de PLANQUE: What's the 16 original reason or basis for establishing the SAFSTOR 17 concept? What is it? It's so that you have some 18 option other than decommissioning, а full 19 decommissioning and return to green field.

MR. TREBY: That's correct.

COMMISSIONER de PLANQUE: But I don't see that it's necessarily defined as leaving absolutely everything there and in place. So then it's somewhere in between.

MR. TREBY: Right. That's exactly what I

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27 thought I had tried to say. Maybe I didn't articulate 1 2 it well, but I think my point was that you could do 3 some things but you can't do so many of the things that there is nothing left to be SAFSTORed. 4 COMMISSIONER de PLANQUE: 5 Yes, but then 6 you get a point of what's the health and safety basis 7 for drawing a line. 8 CHAIRMAN SELIN: What about steam 9 generators? Just take the specific example. If a 10 licensee wanted to remove two steam generators, is that a decommissioning plan? No, because then after 11 12 two, then there comes two more. 13 MR. RUSSELL: When we discussed this 14 internally, we looked at the activity of removing 15 steam generators and that typically removes about half 16 of the source term that you might have ultimately to 17 handle. If you start adding to that reactor coolant 18 pipe being pressurized reactor coolant pumps, the 19 reactor coolant primary pressure boundary, you can 20 quickly get to the point where you have essentially 21 removed all of the activity, or a great bulk of it, that we're concerned about and how those activities 22 are accomplished. 23 24 So, what we didn't want to do is get into 25 situation where we were, а in fact, allowing **NEAL R. GROSS** COURT REPORTERS AND TRANSCRIBERS 1323 RHODE ISLAND AVENUE, N.W.

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activities to continue such that there was 1 no 2 meaningful review to a decommissioning plan. Now, what you do by way of partial review is how many parts 3 do you have as a function of how much they propose? 4 If it's a limited proposal and it's something that 5 would occur under either option and the question is at 6 7 what time does it occur, you may be able to review that and not have an impact on an environmental 8 9 assessment. It may be that the activity is so large that you must look at that and look at it in the 10 environmental context earlier than you would under the 11 deferral to a total plan. 12

CHAIRMAN SELIN: Do you think it would --13 14 by the way, I'm not a great aficionado of SAFSTOR or So, it's not just a choice between 15 what have you. immediate decommissioning and SAFSTOR. 16 I don't wish to give that impression. We believe that there's 17 18 benefit in looking at an entire decommissioning plan 19 before major steps go forward, not only to make the 20 strategic decision whether it's a ten year or a 60 21 year plan or a three year and a six year plan, but 22 because pieces come together and the 50.59 process, by 23 definition, looks at steps one at a time. So, I don't 24 mean to overstate that it's just once that strategic decision has been made. 25

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1	Now, to follow-up on this question, do you
2	believe it would be possible I guess I ought to ask
3	you, Mr. Treby, because technically I can see it's
4	fairly easy. But from a replicable legal point of
5	view, do you believe it would be possible to have
6	guidance on when you would allow a sub-decommissioning
7	plan to Part 4 that would meet the specification that
8	you laid out, namely it's small enough, it can be
9	looked on on its merits or it's too big, it should be
10	in a decommissioning plan? Would you do it on source
11	term? How would you describe the guidance other than
12	very broad terms about I guess you could just use
13	the NEPA language basically and say if it doesn't
14	MR. TREBY: That was going to be my
15	answer. You would use NEPA language and you would
16	determine whether or not it's
17	CHAIRMAN SELIN: Which is tested language.
18	It may not be any good, but it's tested.
19	MR. TREBY: Well, it's not as prescriptive
20	or precise as when you're using safety language
21	perhaps.
22	MR. RUSSELL: The rationale that we had
23	when we were discussing this internally as it related,
24	for example, to the structure of the containment, the
25	containment provides a boundary such that these
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1	activities go on within the boundary and provide some
2	protection during cutting operations, et cetera. So
3	that, we felt, we were fairly comfortable with.
4	CHAIRMAN SELIN: Half of containment is
5	not too useful.
6	MR. RUSSELL: Correct. Clearly, the spent
7	fuel cooling systems and the pool, since they are
8	still providing cooling, we felt that activities
9	should not be done to modify those that could reduce
10	their reliability, et cetera. So, that was an area
11	that we wanted to review. As it related to the major
12	reactor coolant pressure boundary, that is steam
13	generators, pumps, large bore piping and internals,
14	which often the internals can be greater than class C,
15	we were, in fact, drawing a boundary around most of
16	the source term.
17	CHAIRMAN SELIN: So, my example is this
18	doesn't get covered by your == you wouldn't allow
19	steam generators in your
20	MR. RUSSELL: No, we said that we would do
21	that, but it would be through the vehicle of a partial
22	plan submittal that would be limited to that activity
23	and then, depending upon how much they proposed to do,
24	we'd have to make a judgment as to whether that was
25	something that would be requiring a full NEPA review

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1	or whether we could reach a judgment that that was
2	acceptable.
3	CHAIRMAN SELIN: Didn't you say that you
4	would expect these partial plans to be permanently on
5	the fourth criterion, not the third?
6	MR. RUSSELL: Yes.
7	MR. TREBY: That's right. As a matter of
8	fact, they originally would not
9	CHAIRMAN SELIN: But steam generators fall
10	under the third criterion, right?
11	MR. RUSSELL: The steam generators would
12	fall into the fourth criterion.
13	MR. TREBY: The fourth.
14	CHAIRMAN SELIN: Yes.
15	MR. RUSSELL: We would not at internals,
16	the reactor vessel or internals for the spent fuel
17	pool. It may be that to get the steam generator out
18	that you would want to modify the containment. But as
19	long as you maintained the liner, for example, you
20	might cut a hole in the concrete, take the steam
21	generator out using some type of temporary barrier and
22	put the liner back in place for the remaining portion
23	of the time until you come in with the next portion of
24	the segmented plan. But that process for removing the
25	generator and why that's acceptable in light of all

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1	the other considerations would have to be adjudged at
2	that time.
3	CHAIRMAN SELIN: Okay.
4	COMMISSIONER de PLANQUE: Why?
5	COMMISSIONER ROGERS: What my concern is -
6	- yes. Well, this is sort of my question. It seems
7	to me that the safety issue should be the primary
8	issue. What are you doing that raises a safety issue?
9	There, it seems to me, should be our focus, the focus
10	of our attention.
11	What troubles me about the approach here
12	is and some of the things that have been said at
13	the table today, is that safety is not the big
14	consideration, it's sort of process here. I think
15	we're losing sight of the technical safety issues that
16	are primary or must be primary in what we allow and
17	disallow. I think the whole flavor of this effort, to
18	me, is basically non-technical, non-safety. It's
19	process and it's what we would allow and what we
20	wouldn't allow, but not why or why not, and that's
21	where I'm having a great deal of difficulty because I
22	think that we've lost sight of what ought to be our
23	primary responsibility and that is safety issues.
24	Public participation is a very good thing.
25	I'm all in favor of it. I think the record shows
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that. But I don't think that should be the primary purpose of what we're looking at here. I think what we should be looking at is what are the safety issues from a technical point of view and that ought to be the starting point, not incidental, the starting point for everything.

Now you talked about the containment, and
that certainly I think is kind of obvious that the
containment does provide, you know, a cover for
anything else, but I -- and certainly the spent fuel
storage system, if there's spent fuel in there, has
got to be kept operable and so on and so forth.

13 But when you start in items 3 and 4, you 14 I don't see automatically the begin to lose me. 15 safety issue there in the sense that the licensee is 16 responsible for safety. It isn't as if there's no 17 responsibility for safety anymore. They have a 18 responsibility and we expect them to discharge that, 19 but it seems to me that we're losing sight of that.

20 MR. RUSSELL: If we follow the process 21 that you're suggesting, you could end up with a 22 situation where you would have essentially the source 23 term removed from inside the containment. You'd have 24 the containment shell and you'd have the spent fuel 25 cooling systems and the pool and that would be it, and

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1	so then you would have to question what's the basis
2	for a decommissioning plan at that point.
3	COMMISSIONER ROGERS: You've got to go all
4	the way to the end. The decommissioning plan takes
5	you all the way to the very end, you know, green field
. 6	or something of that sort. That's important. And I
7	don't have any problem with taking the guts out as
8	long as it's all done safely and disposed of safely.
9	CHAIRMAN SELIN: I agree with everything
10	Commissioner Rogers has argued, but I think I come to
11	a different conclusion for a somewhat different
12	reason.
13	I think it's important to take a look at
14	why we wanted to approve the decommissioning plan and
15	have public first of all, we all agree health and
16	safety is the most important point. We wouldn't even
17	consider allowing anything to go forward that didn't
18	seem to assure health and safety to individuals who
19	are around the plant, but we are also responsible for
20	the environment. And we are subject not only to the
21	Atomic Energy Act. We're subject to NEPA and to
22	CERCLA and to the various other environmental rules
23	and there's supposed to be a course of action which
24	not only makes health and safety decisions in a narrow
25	sense but meets all of these objectives that are upon

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the Commission. And in fact in some other areas we've been really fairly severely criticized for not paying enough attention to the environmental issues in what goes on.

In my opinion, there's no question about 5 the paramountcy of the health and safety issue, but we 6 7 need to meet all of the federal requirements, not just the Atomic Energy Act ones. And I don't know if this 8 9 is historically correct, but, from my point of view, the reason that I'm so interested in having the public 10 hearing is not just for the narrow safety issues in 11 the sense of is this a good plan for taking source 12 material but because there are environmental effects 13 14 and the citizens have the overall а say in 15 environmental desirability of the plan.

And going ahead, removing the material, 16 17 I'm quite certain that the staff would not allow people to take steps that are not individually safe, 18 but they might not -- you know, we can't avoid an EIS, 19 20 for instance. I mean, if an Environmental Impact 21 Statement is called for, we can't just say since 22 there's no health and safety impact there's no 23 environmental impact. We need to meet all of these 24 requirements and I just don't see a good way of requirements 25 meeting these without having а

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decommissioning plan in hand until steps that could --1 2 you know, unless we could look at the individual steps 3 and say there's no health and safety impact and 4 there's no environmental -- what's the proper phrase? 5 There's no environmental -- you know, the finding we 6 have to make. Significance? 7 MR. TREBY: 8 CHAIRMAN SELIN: Significance, yes, to go ahead without it in any items. And I'm really sort of 9 10 perplexed, to tell you the truth, that you get different answers from the top down and from the 11 12 bottom up. I guess I'd like to make a somewhat 13 14 broader statement. I think you've done a very good 15 job on this document. I think you haven't put your 16 best foot forward in that we asked you what should the 17 rules be and you've told us what the rules should be 18 and that's a very legalistic document, so you haven't 19 really explained as much as we're used to seeing in 20 SECY documents. 21 What's the -- not the legal basis, but 22 what are the objectives that we're trying to carry 23 out? What is the problem? What are the 24 inconsistencies or conflicting objectives that we're 25 trying to carry out?

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1 But when you get right down to it, you're 2 basically saying that there are steps in option 2, 3 there are steps that would lead to a de facto 4 decommissioning without having done a decommissioning 5 And, as Commissioner Rogers pointed out, the plan. 6 first two steps on health and safety grounds, you would say "we just don't think you ought to do these 7 8 steps without being part of a decommissioning plan," 9 but the other two are more from a broad area and you 10 haven't really argued the basis for that.

11 You've come up with what are to me 12 intuitively satisfying conclusions, but what I was 13 concerned about -- I think maybe Mr. Treby has 14 answered it -- is do we have some logic that says what 15 would we consider and what wouldn't we consider. But 16 it's all environmental. I mean, it's all NEPA kind of 17 language, not Atomic Energy Act kind of language, and 18 as a Commissioner I would sort of like to see this 19 issue posed in terms of what do we need

to -- you know, with what laws do we need to comply.
What is our approach?

Why is it that we want to have the public have a chance to talk about decommissioning other than it affects people and they ought to have a chance to let off steam? I think there are more serious reasons

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1 than that. And how does that apply to these steps? 2 Because of the way we asked the question, that's not 3 in the document. The document is a series of steps that -- which is the bottom line. 4 We do need the bottom line, but it's a little hard to judge as to 5 what are the trade-offs we're making. How do these 6 fit together and what is the policy that we're 7 implicitly being asked to support? 8

9 MR. TREBY: Well, perhaps it's not set 10 forth in the paper, but I think some of my thinking 11 anyway was that under option 1 where 50.59 had no 12 restrictions on it at all you could take it to the 13 ultimate consequence of having the entire facility 14 decommissioned before you received a decommissioning 15 plan and that would be a useless activity.

it may well be that the most 16 Now, 17 important point for us to have public participation is 18 not at the decommissioning plan activity but it may be 19 at the termination of license activity when we're 20 determining whether or not everything has been cleaned 21 up and we can release the licensee from any further 22 liability and the area is now available for unrestricted use. 23 However, the reason that we were 24 recommending that the Commission give consideration to 25 option 2, which is to have certain restrictions but

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with those restrictions have an escape clause, so to speak, whereby you could still perform activities such as removing steam generators, the only thing that was being placed upon the licensee was the requirement for it to come in and seek an approval of a partial decommissioning plan. What that gets you is some review by the staff and the opportunity for public input.

9 Our experience has been that when you have public input that sometimes that does help focus the 10 safety reviews. 11 They can't quantified be 12 particularly, but when there are more people looking over your shoulders and they're raising more issues it 13 does help focus the review a little bit. That's not 14 15 to say that we don't do a good review without that, but --16

MR. TAYLOR: May I add a little bit and
then perhaps Bill will amplify?

I'd like to just say that of course our
public health and safety mission does include the
workers in the plant.

22 COMMISSIONER ROGERS: Yes, absolutely. 23 MR. TAYLOR: And part of number 3 there 24 was that in my view we have -- although the Yankee 25 Rowe vessel is a small vessel and so forth, that when

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into future decommissionings we haven't 1 we get dismantled many reactor vessels of the size that would 2 3 have to ultimately be dismantled so there's not a great wealth of experience doing that, as an example. 4 How are you going to dismantle, cut up, ship reactor 5 vessels? So, part of that was in the -- the partial 6 plan was with the full understanding that the utility 7 8 experience governs removal of steam generators, 9 reactor coolant pumps, lots of reactor coolant pipe 10 that may have had to be -- like recirc pipe through The wealth of experience is quite large 11 the years. 12 there, and recognizably so. What has really basically happened at Yankee Rowe was completely within their 13 14 capability. They have well-trained staff.

15 Again, Fort St. Vrain represents a very different reactor and we wanted to look at that one in 16 17 considerable depth as they've disassembled that, and they're actually disassembling what amounts to the 18 vessel on that reactor. But those were some of the 19 20 logic patterns that got us down. The containment was, of course, to protect the public, but we also have the 21 22 obligation to protect, to understand the process and the protection of the workers. If there's large 23 24 airborne releases inside when they're dismantling and the appropriate precautions haven't been taken, you'd 25

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have a considerable handful of workers that may get 1 considerable uptake. 2 3 I'll ask Bill to pick up on that one. MR. RUSSELL: The issues that we really 4 discussed most regarding number 3 were the greater 5 than Class C. We recognized that there are some 6 7 components, APRM strings for example, that are typically cut up to be in smaller quantities and then 8 they can be disposed of. 9 CHAIRMAN SELIN: Where I grew up we didn't 10 have any APRM strings, typically or otherwise. 11 12 MR. TAYLOR: Define that, please. MR. RUSSELL: It's a device that is used 13 14 to detect core power. So, it's in the core and 15 becomes highly activated. It has special nuclear 16 material in it. They have to be periodically replaced 17 and these things are typically long, 12 feet or more 18 in length, and they are typically cut up underwater 19 into smaller pieces so that they can be disposed of. 20 We wanted to exclude that. That is something that's done fairly routinely. 21 But if you were talking about the core 22 shroud, which could be 18 to 19 feet in diameter, 18 23 24 to 20 feet high or thermal shields, other materials 25 that could, shortly after shutdown, have very high NEAL R. GROSS

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levels of activity, we essentially felt that those 1 2 were safer remaining in the vessel with the shielding and the other materials that you have associated with 3 it and that cutting those up to dispose of them was 4 5 something that we would want to understand what 6 process is going to be followed and how is it going to 7 be done to assure that it's being done as low as reasonably achievable? If the high levels of activity 8 9 are associated with short-lived activations, there may 10 be an option for deferring that for a period of time 11 until the activity is lower to proceed. 12 Those were the kinds of things we talked 13 about as it related to number 3. 14 Number 4, you're correct. We have replaced piping in operating plants. We've replaced 15 16 steam generators and other components. This becomes 17 more a judgment issue. We were looking for -- there the situation was that a lot of the source term is 18 19 contained in the steam generators and in the piping due to activation, transport, et cetera. 20 21 So, it was more in the context of if 22 you're really going to look at the total scope of 23 decommissioning and your objective is to remove the radioactive material, it's more in the concept of how 24 25 much radioactive material are you removing through a

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process other than plan review and approval? Not that these could not be conducted safely or have been done safely in the past. That was the type of logic we went through when we identified the four corners that we proposed. Whether it's one only, one and two, one, two and three, or four clearly was a judgment process.

MS. CYR: I might add a little bit in 7 8 terms of looking at it from how OGC's perspective was I think our reaction to sort of what's 9 in this. 10 happened over the last year or so in terms of implementation under the SRMs, which was still a sort 11 12 of ad hoc process, and even the concern that we had at the time we wrote the original paper, was that we had 13 14 written a rule which we thought was going to describe 15 an orderly process towards getting to decommissioning 16 facilities. It described expecting that a preliminary plan would come in, then there would be an orderly 17 18 shutdown, they would have a time to prepare a plan and so on. Our experience to date has not been like that 19 20 at all. We're getting so many early shutdowns of plants and we've been developing a process ad hoc, 21 which means that we need to sort of step back and look 22 at the rule. 23

Since we didn't take that full step back to look at the rule, we were trying to take what was

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given to us last year, still try to make some sense in 1 2 terms of the existing rule, but preserving what was 3 the framework of that rule, that we were going to get to this decommissioning plan which was going to 4 appear -- the way we had set it up was to be a very 5 comprehensive look at what were the activities that 6 7 were going to be taken at the site and review those in 8 advance, have some public comment on that, improve 9 that plan and then the decommissioning would take place in whatever manner was described, SAFSTOR or 10 immediate dismantlement or whatever. 11

12 Our perception was that because that seemed to be the process that was contemplated, that 13 14 was what the public expectations, that's what the rule 15 seemed to be saying to people. So, we were trying to, 16 in a sense, eliminate some of that confusion, trying to add without, in a sense, rewriting the rule as 17 18 such, but to preserve the framework of that rule, but 19 try to add some more clarity to the process so people 20 would have a better understanding of what it was that 21 was going to take place in this process.

Now, I think you could do it differently. You could take a bigger step back. You could say the kind of process that was happened in Yankee Rowe where we have a step by step process, that be another way to

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go. But given the framework that we had in place, we were trying to give a little more clarity to that process so that it would be more transparent to people what was actually happening, what they could expect to see at what point in time and have an opportunity to comment on as we would proceed through this process.

COMMISSIONER ROGERS: Yes. Well, I think

it's evident that that's what the intent was and I 8 9 think that was a good intent. Maybe I'm being a 10 little flip, but I think you built a boat in the basement on this one. 11 I think we've got a monster here, frankly. I just think that maybe it suggests 12 that we do have to take a step back and look at the 13 14 entire process which -- well, we thought we were doing 15 a pretty good job. We thought we were doing a pretty 16 good job on some other rules that when we tried to apply them we found they needed some work. 17 We weren't really faced with the issue the way we were 18 19 faced with it with the premature shutdown plants.

When 20 we wrote the rule, the decommissioning rule, it seemed reasonable. We said 21 there should be a plan, but we didn't really say 22 23 exactly what was going to be in that plan. Now we're starting to say, "Well, what is going to be in a plan? 24 25 What about a preliminary plan? What about an

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intermediate plan? What about being able to do 1 something or not do something?" We really didn't 2 3 address those issues at all when we wrote the decommissioning rule. We thought, "It will take care 4 of itself when the time comes, and the time is pretty 5 far out." Well, it's not far out. It's right here 6 now and I think we are facing these issues and I would 7 8 suggest that we take a broader view of this issue and 9 not try to just simply tinker with the decommissioning 10 rule, but take a look at what is necessary to do the job in today's time. 11

Everything I've heard is reasonable, but 12 I'm not sure it's necessary. From a health and safety 13 point of view, I'm sure it's not. Some of these 14 things are not necessary. From a NEPA point of view, 15 16 I don't know. That's where OGC has got to give us some help. But I would like to see a delineation of 17 what we think are really the safety issues. It seems 18 to me that Item 3 or Category 3 is a very broad 19 20 category. It's got a lot of different things in Some of those things you've mentioned, I 21 there. 22 wouldn't argue with you one bit that they ought to be very carefully considered before one proceeds. 23 I'm not sure about everything that could conceivably fall 24 under Category 3, however. 25

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So, I think we need to think through this 1 thing a little bit more in detail and I suggest the 2 starting point is safety. And then to see what we 3 feel might be the implications of a pure safety point 4 of view and that includes worker safety as well, of 5 course, of NEPA requirements and see whether -- well, 6 we've just, to satisfy NEPA, we've got to add some 7 more restrictions. But I don't see what they are. I 8 think the thing is woven together here in a way that 9 faced with 10 an outcome that includes we are considerations of both types. That's what I hear you 11 12 saying, and I'd like to see those disentangled. I'd like to see what they are and I'd like to start with 13 14 safety and, from a purely NRC point of view, then begin to add in the considerations such as the 15 Chairman has suggested are also important, that we do 16 have to operate under environmental considerations, 17 but I'd like to know what those are and I wouldn't 18 19 like to just talk in generalities. I'd like to know 20 exactly what an environmental issue is that is driving whatever our requirements are here. 21 CHAIRMAN SELIN: Commissioner de Planque? 22 COMMISSIONER de PLANQUE: 23 Well, I think

you just about said what I was going to say anyway. Maybe it is indeed time to take a broader look. I

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certainly understand the point about the worker doses and ALARA in some of these and that's clearly a health and safety issue. But I couldn't find a health and safety hook anyplace else in here. Based on the conversation today, I clearly understand why there are other issues that need to be considered, the environmental ones and certainly the issues that we laid out in the SRM, the four issues that we laid out.

9 But I think what we would like to see, or 10 what I would like to see anyway, is that the process 11 answer those issues or correspond to what's needed for 12 each of those issues, be it health and safety, be it 13 environment or whatever, essentially what Commissioner 14 Rogers has said.

15 CHAIRMAN SELIN: Before we go off, I 16 actually would like to ask you a couple of questions 17 for you to try to answer at the table. I want you to 18 understand that the next question is a hypothetical 19 question to understand the limits of the reasoning. 20 I absolutely do not believe what I'm going to say. I 21 mean I don't agree with the theory.

You know, the background is that we have a decommissioning rule which has some public participation in it. Let's say that the Commission voted to remove the public participation. Would we

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violate any law if we did that? In other words, could 1 you do a decommissioning plan without a public 2 hearing? Is there any law that would be violated by 3 Is this purely because we believe the doing so? 4 public should be heard or is it something that would 5 not stand up based on either the Atomic Energy Act or, 6 7 more likely, one of the environmental laws? I mean, let's say we changed our rules in 8 a consistent -- our regulations in a consistent 9 I'm not asking is there some other 10 fashion. regulation that --11 I think there ultimately -- at 12 MS. CYR: 13 some point when the agency terminates the license and 14 proposes to release for unrestricted use, there has to 15 be an opportunity. 16 CHAIRMAN SELIN: But that wasn't my 17 question. My question was why do we require a decommissioning plan and why do we require --18 19 MS. CYR: Well, to the extent that there 20 approval process in there which may is an be considered under APA purposes in a license of some 21 22 sort, there is an approval process, then there may be certain hearing rights that may not necessarily be a 23 189 action, depending on what the nature of whatever 24 25 we're doing there, the approval process is. But there

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are certain hearing rights or opportunities for public involvement which may arise to the extent that we impose an advance approval with respect to certain activities that take place.

5 CHAIRMAN SELIN: Well, let me posit a 6 hypothetical different situation. We don't have a 7 requirement for a decommissioning plan. We really 8 just tell the licensee that he can do anything he 9 wants provided that the individual steps we consider 10 to be consistent with health and safety -- you know, 11 50.59 decommissioning process, if you will. So, 12 however, once you're done and we give them a whole lot 13 of rules, you have to look out for worker safety and you have to make sure that the environment is 14 protected, once you're done, before we will terminate 15 16 your license, then we need a hearing and we have to 17 make an environmental assessment, et cetera. Would 18 that be consistent with your understanding of the 19 environmental -- we wouldn't be looking at any options because the options would be all done and he's just 20 21 presenting us a fait accompli. The question is can he then terminate his license. 22

MS. CYR: Assuming there's no intervening approvals which we believe were necessary, I think that's right.

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1	CHAIRMAN SELIN: The intervening approvals
2	would be because
3	MS. CYR: For a health and safety basis we
4	concluded that there was some activity that was
5	ongoing there that we
6	MR. GRIMES: Change the technical
7	specifications and
8	MS. CYR: Right.
9	MR. RUSSELL: There was something that
10	caused an amendment to be necessary to amend the
11	license. If it were an activity that could not be
12	approved under 50.59, that way we'd be into an
13	approval process and a notice process, et cetera.
14	CHAIRMAN SELIN: Yes.
15	MR. GRIMES: So, we have a number of those
16	in each of these cases.
17	CHAIRMAN SELIN: Okay. But basically what
18	I interpret you saying I mean what you're saying is
19	very clear, but what I interpret the implications as
20	being is that the Commission has come up with a
21	decommissioning process because we believe it's
22	important that there be a decommissioning plan and
23	that there be some hearing rights on it, not because
24	there's a law that requires this to be the case. One
25	can come up with a counter example where, as several

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said, essentially see of you we can а plant decommissioned without ever qoinq through а decommissioning plan without ever taking a "dangerous step."

So, what we really have to do is decide 5 whether we believe or why do we believe it's important 6 to have a decommissioning plan, why do we believe it's 7 important to have hearing rights on this plan? There 8 9 are at least two reasons. One is major decisions are made in the plan which affect the public. But whether 10 that's because we want to hear what they have to say 11 12 about it or are required to hear, you need to think about. And the second is that decommissioning is, in 13 14 fact, a whole set of steps. It's not just one step at 15 a time and even though we're competent to do safety analyses, when we are forced to defend these in 16 public, we think a lot harder or people bring up 17 There's two quite different purposes. 18 things. The first one is a public policy and environmental issue, 19 20 the second is really a health and safety issue that would say such a major step is decommissioning 21 22 reactor. Even the health and safety -- you know, we can't tell which step we would do better, but 23 comprehensively 24 having intervenors aiven an opportunity would improve the health and safety. 25

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1 I don't really understand the judge's 2 logic, the one who threw out the case, if this is 3 true. You know, the district judge, not the appeals Was he basically saying that the NRC's rules 4 judge. 5 call for the public to have a chance and they've been 6 done out of this chance or was he saying the law 7 requires the public have a chance? 8 MS. CYR: He wasn't saying that. He was 9 saying that there wasn't an opportunity. Given the 10 way that we had proceeded through the process that we had done, we had not really explicitly told them 11 12 whether they had an opportunity or not. He wasn't 13 saying that we had to have an opportunity. 14 CHAIRMAN SELIN: But they never were told 15 whether they had an opportunity. 16 MS. CYR: Right. 17 CHAIRMAN SELIN: So, if we should change--18 He was complaining about the MS. CYR: 19 fact that we issued documents sort of piecemeal and 20 after the fact and we didn't get to the point of 21 saying no and didn't provide them and tell them 22 clearly yes or no, "You're not going to have an opportunity here." 23 That's what he was sort of 24 complaining about the process.

CHAIRMAN SELIN: But it would be rational,

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it would internally consistent to choose option 1, 1 reject option 2, tell the public they will not 2 3 necessarily have an opportunity ever to comment on the decommissioning plan because we don't -- you know, if 4 somebody can break the decommissioning into a set of 5 50.59 steps, we may never approve a plan. We could do 6 7 that from a legal point of view should we choose to do 8 that. 9 MS. CYR: If the Agency concluded that 10 from a safety standpoint that it did not -- there were no approvals necessary, it did not have to have some 11 12 kind of advance approval, that what you were concerned about was the ultimate release at the site --13 14 CHAIRMAN SELIN: Take your option 1

without option 2. It's not mandatory that people not do a plan, but people could. I mean you've said at the table basically Yankee Rowe has. For all intents and purposes, they've come in and they've proceeded well down the line following option 1 to decommission the plant. So, there's --

21 MR. WEISS: Well, we did have a number of 22 public meetings in that area, even though we were not 23 required to let the public know what was going on. 24 CHAIRMAN SELIN: I mean, that even more

strongly makes my point, since whatever you say will

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make my point. You know, that basically they could 1 come up with a set of points -- I mean a set of steps 2 which are a de facto decommissioning plan without ever 3 having submitted a plan or having approval. 4 It doesn't mean that the NRC just says, "Come back in ten 5 years." You do have this, "Tell us what you have in 6 mind. We'll have 90 days to look at it," but that's 7 8 still basically just bilateral between us and them 9 step by step. 10 MR. RUSSELL: that's correct. MR. GRIMES: It's certainly been the 11 12 staff's understanding for the past couple of years at least that option 1 is indeed a legal way of

13 least that option 1 is indeed a legal way of 14 approaching things because that's essentially the 15 track we've been taking on these things. And further 16 in terms of decommissioning plan approval, we've also 17 proceeded with those with environmental assessments, 18 but without a hearing.

19CHAIRMAN SELIN: But where did we do --20MR. GRIMES: At Fort St. Vrain, for21example.

CHAIRMAN SELIN: But in this case, in Yankee Rowe, let's say they just continued, they didn't stop. Would there ever have been an environmental assessment until they came to us and

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1	said, "We're ready to turn this plant back to the"
2	MR. GRIMES: Theoretically not.
3	CHAIRMAN SELIN: There hasn't been, has
4	there?
5	MR. RUSSELL: Correct, not to date. The
6	amendment activities we've been involved in are
7	generally limited to the scope of the amendment that's
8	involved and that's handled by our routine process.
9	It may be one that provides relief under requirements
10	and is not directly related to the activities of
11	decommissioning, which could be done under 50.59.
12	CHAIRMAN SELIN: Let's go back to what the
13	General Counsel said earlier. Here's a case where
14	it's clearly arguable that the need for an
15	environmental assessment or environmental impact
16	statement has been avoided by breaking down the
17	decommissioning into a set of steps, none of which was
18	seen to trigger the need for an environmental
19	assessment. Can that be consistent with NEPA or is
20	that
21	MR. RUSSELL: It depends upon what the
22	major federal activity is. If the major federal
23	activity is releasing the site and the licensee from
24	its obligations, then the answer to that is no, that
25	it would not be contrary to NEPA. If the process by

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which you take the plant apart and dispose of the
 source term in a safe way, if that has some major
 effect on the environment and constitutes a major
 federal activity, then I think you would have, in
 fact, a segmented review and approval process.

6 CHAIRMAN SELIN: In this posited case 7 where we're not so much worried about license 8 amendments because those are -- although they're 9 federal steps, they really are limited to the reason 10 the tech spec or whatever was done in the first place. 11 My speech was wrong basically, that one could do all 12 of these steps. One could allow a plant to be 13 decommissioned never having had a decommissioning 14 plan, never had a public hearing as long as the actual 15 release of the site had not occurred. So, it's really 16 a question of what we want to do, not what the law requires. 17

MR. GRIMES: Yes. The theory had been that the operating license foresaw all of these activities as part of the initial environmental assessment in statement, although those things were never very explicitly treated in terms of the EIS at the time.

24 CHAIRMAN SELIN: There are no 25 decommissioning plans in operating license

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1 applications. 2 MR. GRIMES: Right. Right. You'd hav. 3 just infer 4 CHAIRMAN SELIN: It's just assumed for they will be decommissioned, but not 6 MR. GRIMES: That will be decommissioned, because you're building it. 7 because you're building it. 8 CHAIRMAN SELIN: not how they'll 9 decommissioned. 10 MR. GRIMES: Right. 11 MR. GRIMES: Right. 12 with constructing and operating it and ultimated taking it apart, one could argue, were considered the time you approved the construction. 13 CHAIRMAN SELIN: All we considered that it is feasible to take them apart 14 MR. RUSSELL: Yes. 15 CHAIRMAN SELIN: not which way 19 MR. TAYLOR: To take them apart. 20 CHAIRMAN SELIN: to take them apart. 21 MS. CYR: Just as a note, Yankee was set of pre-NEPA. So, there was not EIS for Yankee, will makes it sort of a sui generis case for this. 23 COMMISSIONER ROGERS: I don't want NEAL R. GROSS count REPORTER AND TRANSCHEERS	
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1 || interrupt your --

2 CHAIRMAN SELIN: Well, I just had one more question. Basically, this is a statement and I'd like 3 4 to know if collectively you think it's true, that we 5 are really down to deciding whether the framework that you've chosen, which is that we do wish to have in 6 7 effect a decommissioning plan and that we do wish to 8 have at least opportunity to comment on that, requires 9 something like your option 2. If we feel that what 10 I'll call efficient decommissioning, or whatever you 11 want to call it, is more important, we could go back 12 and reconsider this question of requiring a decommissioning plan and requiring some kind of --13

14 But the converse is also true, that if we 15 are going to require a decommissioning plan and if we 16 are going to give the public an opportunity to discuss 17 that, your option 2 is -- I mean, you know, how you 18 got to 1, 2, 3 and 4, what's in 3 and what's in 4, 19 there's something. But basically, in your opinion, 20 that's really the only way to implement such an 21 In other words, to assert that. approach.

22 MR. RUSSELL: To have something meaningful 23 to review, you need to put some controls on that which 24 could be done.

CHAIRMAN SELIN: Okay.

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1 COMMISSIONER ROGERS: I'd like to say what I recall at the time we went through decommissioning 2 3 and what our concerns, at least my concern was. Certainly to some extent the safety issues with 4 5 respect to taking the plant apart, that certainly was 6 There was also a very deep concern that partly it. 7 there would not be left a plant to be decommissioned 8 with no resources to decommission it. That was a very 9 serious concern. One of the major aspects of that 10 decommissioning plan in my mind was a demonstration 11 that there would be adequate financial resources to 12 decommission that plant take it and back to 13 something -- a reasonable state, green fields or 14 something else. And that the important part of the 15 plan was that one could demonstrate what the things 16 were that were going to be done or state what the 17 steps would be and then cost them out and demonstrate 18 that there would be adequate resources to carry that 19 plan out.

20 So, the emphasis in my mind was principally on making sure that 21 there would be 22 adequate resources to carry out a proper 23 decommissioning plan. I don't think we've focused on 24 the individual steps, the public health and safety 25 issues that were related to the individual steps.

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They would obviously be under NRC's observation and control. But the big question was will there be adequate resources so that the public will not be faced with this shutdown plant with a load of radioactive material in it and no resources to clean it up. That was one of the major thrusts of that decommissioning rule.

8 And also, what would be the final state? 9 Would it be SAFSTOR? Would it be green fields? So, 10 there'd be an environmental impact there at that point. Are you going to leave a big block of concrete 11 12 in the middle of a field or are you going to take it back to a relatively pristine state? 13 These are all environmental issues. 14

15 So, there environmental were considerations, but in my view, and this is just my 16 17 recollection and the way I was thinking about it at the time, it was really what the end point was. What 18 19 was going to be the environmental impact of the final 20 end point of this decommissioning process and were there going to be resources, adequate resources to do 21 22 that job? Therefore, you had to have some kind of a plan to demonstrate that those resources would be 23 24 adequate.

Now we're talking about a very different

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kind of situation. We're talking about somebody who 1 2 clearly has the resources because they want to go and 3 do it and they want to start under some reasonable plan taking the plant apart. 4 I think you need a decommissioning plan to know where they're going to 5 I think that 6 wind up and there are the same environmental considerations. But we're talking now 7 8 about applying some of the thinking and concerns that 9 led to the decommissioning rule at the front end of 10 the process now, in a micro way and I'm having trouble That's where my difficulty is. with that. 11

think we're proceeding along 12 Ι in a somewhat reasonable way, but I have a feeling that 13 14 we're introducing more here than needs to be the case 15 at this -- for the kinds of situations we're now 16 faced, where there is a licensee with resources to do the job, wants to get on with the job and we're 17 18 beginning to worry about the environmental impact of carrying out operations that they can carry out right 19 now without any hearings or any special environmental 20 considerations that aren't already in our current 21 22 regulations. That's where I'm having trouble.

23 MR. RUSSELL: I think there's one 24 additional factor and that is there's a significant 25 financial incentive, at least in the short-term, to

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proceed to defer cost or reduce costs in the longterm.

COMMISSIONER ROGERS: Yes.

8 MR. RUSSELL: So, we've seen a change in circumstance over what existed at the time that the 10 rulemaking went forward.

11 COMMISSIONER ROGERS: The only thing is I 12 get a little antsy when we start to get into cost 13 because cost can drive things the wrong way too, you 14 know. We want to be sure that somebody is not running 15 pall mall into a decommissioning effort to -- a 16 dismantlement effort to avoid some costs that really 17 should be incurred to do the job properly. So, there's some restraints on this. But I do agree with 18 19 you.

20 MR. RUSSELL: That's a very good point 21 given that we've got a clock running on the time for some of these activities as to when costs would go up 22 substantially --23

> COMMISSIONER ROGERS: Right. MR. RUSSELL: -- to make sure that we

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1 follow them closely as they're being done now. 2 COMMISSIONER ROGERS: Absolutely. CHAIRMAN SELIN: 3 Let me just make sure 4 basically that you believe what you said on page 11, 5 because that's really what it comes down to. It says, "Consequently" -- this is in the SECY, not in the 6 7 attachment, "Consequently, the staff and OGC recommend 8 that if the Commission decides" -- well, you split an 9 infinitive. I know you didn't mean to do that -- "to 10 adopt fully option 1, the Commission direct the staff 11 amend the regulation to 50.82 to delete the 12 requirement for NRC review and approval of the 13 decommissioning plan." 14 So it seems to me that we can really

15 question this at one of two levels. One is we can 16 question whether we really want to have а 17 decommissioning plant and an informal hearing on that 18 or not. And the second is, if we do want to have such 19 a plan, are there variations of your proposal that are 20 either more precise or more cost-oriented or have a little more rationale and then that would accomplish 21 22 that plan.

Now, the reason I want to make that that way is that I have some questions about the specific thing, you know, why 3, why 4, et cetera, but I'm

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really talking to my fellow Commissioners. I think that we as a Commission have to decide whether we want to keep the decommissioning plan and the hearing, the optional hearing -- I mean, not optional, but the it's not automatic, it has to be requested, informal hearing to go with it -- or do we want to go back and drop that proposal.

8 Because, the General Counsel of the 9 Nuclear Regulatory Commission is effectively saying 10 you can't square the circle. You can't do both of 11 these at the same point. And once we decide that, 12 which is the major decision, then next comes, if the 13 answer is yes, do we polish this a little bit more? 14 And if the answer is no, do we go back and review that commission. 15

I do have a different question that Commissioner de Planque brought up earlier. How do you handle a situation where a licensee has a decommissioning plan that will take 20 years or 40 years to go out? I mean, do they --

21 MR. WEISS: We have granted a 22 decommissioning order. We've extended the license for 23 20, 30 years to account for this.

24 MR. GRIMES: But we also expect a more 25 detailed plan just before the activities are taking

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66 1 place. 2 CHAIRMAN SELIN: Is that an amendment to 3 the license? 4 MR. WEISS: Yes. 5 CHAIRMAN SELIN: And we can do that even 6 though it carries the total --7 MR. WEISS: Well, actually it's an order. 8 We issue a decommissioning order. 9 CHAIRMAN SELIN: Does that effectively 10 carry the license beyond 40 years? 11 MR. WEISS: Yes. 12 CHAIRMAN SELIN: And is that something in 13 which people have hearing rights? 14 MR. GRIMES: No, I don't think so. 15 MS. CYR: If you're amending the license 16 to extend the time, yes. 17 CHAIRMAN SELIN: Okay. So it can be done and that would be yet another reason, if somebody 18 19 wanted to do this, to do it real quick and not get 20 into any such issues. 21 **Commissioner Rogers?** 22 COMMISSIONER ROGERS: Yes. There's just 23 one other aspect of this question that I wondered if 24 you could comment on and that is the interrelationship, the NRC and the states with respect 25 NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1323 RHODE ISLAND AVENUE, N.W. (202) 234-4433 WASHINGTON, D.C. 20005 (202) 234-4433

to jurisdiction in decommissioning. 1 2 Oregon, as you know, has some new state 3 regulations with respect to the decommissioning of Trojan and some very specific requirements. How could 4 square with our authority? 5 thev Which takes 6 precedence if there is some issue there? 7 Well, as I understand what the MS. CYR: 8 state of Oregon has done, I mean, they've had a fairly 9 extensive sort of coextant relationship with the NRC 10 under an MOU in terms of what they --11 COMMISSIONER ROGERS: Yes. 12 MS. CYR: -- oversight of the facility, 13 and then that states are permitted to undertake 14 certain activities in promoting their economic 15 regulation and that's really what they're doing in 16 this case. I mean, they're looking at the efficient 17 shutdown of the facility. 18 COMMISSIONER ROGERS: No, they've got very -- now they have, I think, legislation on this 19 20 that actually spells out things like we have in our 21 items 1, 2, 3, 4 of what you can do and what you can't 22 do. I know the containment, you cannot open the 23 containment, for example, without state approval. Ι 24 don't remember what the other items are, but it's 25 quite technical, and the question is how do our

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requirements and theirs, how must they fit together? It's another state-federal issue here, I think.

If it comes down to that there 3 MS. CYR: clearly is a clear conflict on a safety issue between 4 ours and theirs, then ours would be the preempt one. 5 But from what I understand of what they're doing, I 6 mean, they are -- although they are doing it from an 7 economic basis and at this point it doesn't conflict 8 9 with ours, I mean, they have certain issues that they want to look at and they're doing it against sort of 10 an efficient need and efficient and effective pursuit 11 of the orderly shutdown of the Trojan facility and 12 what they have here so far doesn't seem to conflict 13 with what we're doing. They've tied it to that hook 14 15 and that is a permissible hook.

I mean, we haven't ever explored the full range of how far that kind of a hook can carry you in certain kinds of stuff, in activities by the state. They also have certain authority under the Clean Air Act to set more stringent standards, as you know, for air emissions and effluents and so on, so there may be some aspect of that which is involved also.

I'm not familiar with the particulars of what they've actually said here, but I don't believe anything they've taken is in direct conflict with any

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1	activities we've taken so far.
2	COMMISSIONER ROGERS: Well, I mean, this
3	is only a proposed rule.
4	MR. GRIMES: If I could comment, there are
5	some specific words in the Oregon rule, proposed rule,
6	for actual
7	COMMISSIONER ROGERS: It's in place, I
8	believe.
9	MR. WEISS: June 24th.
10	MR. GRIMES: Yes, on June 24th it's been
11	made final now. That says if there is any direct
12	conflict with the NRC, then the NRC rule prevails.
13	They feel, I believe, that if they do something which
14	is, say, more conservative, results in less effluents
15	or things like that than the NRC regulations require,
16	then they are within their bounds. I'm not sure if
17	that would stand up in a court test, but they've been
18	very cooperative in all these areas and they have
19	agreements with the licensee also to abide by these
20	things, so we have not found any problem in practice
21	with cooperating. And indeed, their public
22	participation in this area looks, at least to me, like
23	it would be very effective.
24	COMMISSIONER ROGERS: Oh, I think it was
25	quite good, yes.
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1 MR. GRIMES: Quite good. 2 COMMISSIONER ROGERS: Well, I'm not 3 raising the question with respect to Oregon so much as 4 an example of a situation that we now have seen 5 develop and it could develop in a different way in a 6 different state on a different plant, and I think it's 7 worth starting to take a look at what our concerns 8 might be with respect to any state decommissioning 9 programs, requirements. 10 MS. CYR: We can look at more details, the 11 actions undertaken in that particular case. 12 COMMISSIONER ROGERS: I appreciate very 13 much hearing from OGC on this because it's the kind of 14 thing that might come up at NARUC meetings and I'd 15 like to have some of your thoughts on that. 16 MS. CYR: Fine, we'll look at that. 17 MR. TAYLOR: That's it, sir. 18 CHAIRMAN SELIN: Thank you very much. 19 (Whereupon, at 4:34 p.m., the above- 20 entitled matter was adjourned.) 21 22 22 23
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This is to certify that the attached events of a meeting of the United States Nuclear Regulatory Commission entitled: TITLE OF MEETING: BRIEFING ON DECOMMISSIONING PROCESS PLACE OF MEETING: ROCKVILLE, MARYLAND DATE OF MEETING: JULY 21, 1994 were transcribed by me. I further certify that said transcription is accurate and complete, to the best of my ability, and that the transcript is a true and accurate record of the foregoing events.

Carol Jupuch

Reporter's name: Peter Lynch

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DECOMMISSIONING OF NUCLEAR POWER REACTORS: PROPOSED RULE

Briefing of the Commission

July 21, 1994

BACKGROUND

• SECY-92-382 "Decommissioning - Lessons Learned" (November 10, 1992).

• Staff Requirements Memorandum for SECY-92-382 (January 14, 1993).

• Staff Requirements Memorandum for SECY-92-382 (June 30, 1993).

SRM Directive

Staff to prepare a recommended definition for "permanent cessation of operations".

Proposed Requirement	Proposed Citation	Current Regulations
Licensee certifies to permanent cessation of operations.	2. § 50.82(a)(1) - 30 days to certify.	None - "permanent cessation of operations" exists in § 50.82 but
	3. Written communications requirement in § 50.4(b)(8).	is undefined.

10 CFR 50.2

<u>Permanent cessation of operations means</u>, for a nuclear power plant reactor, a certification by a licensee to the NRC that it has ceased or will permanently cease reactor operation. 10 CFR 50.82(a)(1)

- Any licensee may apply for authority to surrender a license voluntarily.
- When a nuclear power reactor licensee has determined to permanently cease operations, the licensee shall, within 30 days, submit a written certification to the NRC.

SRM Directive

Staff to define a "possession-only license".

Proposed Requirement	Proposed Citation	Current Regulations
Licensee <u>may</u> apply for a possession- only license amendment (POLA).	<pre>1. POLA defined in § 50.2. 2. § 50.82(a)(2).</pre>	Neither a possession-only license (POL) or POLA is defined or expressly provided for in current regulations. However, past Commission practice has been to issue a POL upon application by a licensee.

10 CFR 50.2

<u>Possession-only license amendment</u> means, for a nuclear power reactor, an operating license amendment which permanently removes the authority to operate the reactor or maintain or place fuel in the reactor vessel.

10 CFR 50.82(a)(2)

Upon certification of permanent cessation of operations, a nuclear power reactor licensee may apply for a possession-only license amendment.

SRM Directive

Staff to define and provide for (but not require) prompt issuance of a confirmatory shutdown order after the permanent cessation of operations.

Proposed	Proposed	Current
Requirement	Citation	Regulations
Commission <u>may</u> issue "confirmatory shutdown order".	<pre>1. Defined in § 50.2. 2. § 50.82 (a)(3).</pre>	Not explicitly provided for.

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10 CFR 50.2

<u>Confirmatory shutdown order</u> means an order prohibiting resumed operation of the reactor without prior NRC approval.

10 CFR 50.82(a)(3)

The Commission may issue a confirmatory shutdown order following the receipt of the nuclear power reactor licensee's certification under § 50.82(a)(1).

SRM Directive

Staff to clarify regulations in Part 50 as to their applicability to possession-only licenses.

Proposed	Proposed	Current
Requirement	Citation	Regulations
Upon issuance of POLA - Part 50 requirements clarified as to (Non) applicability.	<pre>1. § 50.36, § 50.36(a), § 50.44, § 50.46, § 50.49, § 50.54, § 50.54, § 50.59, § 50.60, § 50.61, § 50.61, § 50.62, § 50.63, § 50.65, § 50.71, Part 50 Appendix I.</pre>	None of these Sections are explicitly nonapplicable to POLA holders.

Regulation

<u>Scope of</u> <u>Revision</u>

§ 50.36 Technical specifications.

Extends applicability

§ 50.36a Technical specifications on Extends effluents from nuclear appliciability power reactors.

Regulation

<u>Scope of</u> <u>Revision</u>

§ 50.54 Conditions of licenses.

Section (y): Emergency Authority Extends emergency authority to the certified fuel handler.

§ 50.65 Requirements for monitoring Extends the effectiveness of applicability maintenance at nuclear power plants.

Regulation

<u>Scope of</u> <u>Revision</u>

Appendix I Numerical Guides for Design Extends Objectives and Limiting applicability Conditions of Operation to Meet the Criterion "As Low As Is Reasonably Achievable" for Radioactive Material in Light-Water-Cooled Nuclear Power Reactor Effluents.

<u>Regulation</u>

<u>Scope of</u> <u>Revision</u>

- § 50.44 Standards for combustible gas Terminates control system in light-water- applicability cooled power reactors.
- § 50.46 Acceptance criteria for emergency core cooling systems for light water nuclear power reactors.

Regulation

Scope of Revision

- § 50.49 Environmental qualification Terminates of electric equipment important applicability to safety for nuclear power plants.
- § 50.54 Conditions of licenses.

Section (o): Containment Leak Rate Testing

<u>Regulation</u>

§ 50.60 Acceptance criteria for fracture prevention measures for light-water nuclear power reactors for normal operation.

<u>Scope of</u> <u>Revision</u>

Terminates applicability

§ 50.61 Fracture toughness requirements for protection against pressurized thermal shock events.

Regulation

<u>Scope of</u> <u>Revision</u>

§ 50.62 Requirements for reduction of risk from anticipated transients without scram (ATWS) events for light-water-cooled nuclear power plants. Terminates applicability

§ 50.63 Loss of all alternating current power.

SRM Directive

Staff to provide that licensees be required to inform the NRC at an early stage of their plans for post-shutdown activities at the facility.

Proposed Requirement	Proposed Citation	Current Regulations
1. Licensee to submit a preliminary report to NRC <u>after</u> permanent cessation of operations - no <u>time</u> requirement.	1. § 50.82(a)(4)(i).	1. No Requirements.
2. Public meetings <u>shall</u> be convened - OPTION 1 and OPTION 2.	2. § 50.82(a)(4)(i).	2. No Requirements.

10 CFR 50.82(a)(4)(i)

- Following permanent cessation of operations, the licensee of a nuclear power reactor shall submit a preliminary report.
- The preliminary report shall be docketed and copies placed in Public Document Rooms.
- The NRC shall schedule and hold an informal public meeting.
- The NRC shall publish notice of the meeting.

Proposed Requirement	Proposed Citation	Current Regulations
1. 90-Day Report - before any significant decommissioning activity.	1. § 50.82(a)(4)(ii)	None.
2. Public meeting <u>may</u> be held - OPTION 2 public meeting <u>shall</u> be held - OPTION 1.	2. § 50.82(a)(4)(ii)	

10 CFR 50.82(a)(4)(ii)

- Licensee shall inform the NRC of its plans for significant decommissioning activities
 90 days prior to the commencement of the planned activities at the facility.
- These 90-day reports shall be docketed and copies placed in Public Document Rooms.
- The NRC shall (may) schedule and hold an informal public meeting.
- The NRC shall publish a notice of the meeting.

SRM Directive

Staff to amend § 50.59 to make it expressly applicable to holders of licenses not authorizing operation.

Proposed Requirement	Proposed Citation	Current Regulations
Option 1 - § 50.59. Expressly made applicable to POLA holders - no restrictions on licensee activities after POLA.	§ 50.59(d).	Not expressly applicable.
Option 2 - § 50.59. Expressly made applicable to POLA holders - restrictions on licensee activities codified in § 50.59(d).	§ 50.59(d).	Not expressly applicable - no restrictions.

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10 CFR 50.59(d)

The provisions of this section shall apply to each applicant for and each holder of a possession-only license amendment.

10 CFR 50.59(d)(1)

(i) modify the structure of the containment;

(ii) modify the spent fuel storage system and/or support system;

(iii) require the dismantlement for immediate or future shipment of components (with the exception of equipment that normally contains special nuclear material) containing greater than Class C waste; or

(iv) result in major structural changes to major radioactive components of the facility.

10 CFR 50.59(d)(2)

(i) foreclose the release of the site for possible unrestricted use, or

(ii) significantly increase decommissioning costs, or

(iii) cause any significant environmental impact not previously reviewed, or

(iv) violate the terms of the licensee's existing license (i.e, operating license, operating license with a possession-only license amendment, or operating license with a confirmatory shutdown order).

Proposed	Proposed	Current
Requirement	Citation	Regulations
Partial decommissioning plan approval to lift the § 50.59(d)(1) restriction - subpart L hearing opportunity provided. OPTION 2.	§ 2.1201(c).	None.

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Proposed	Proposed	Current
Requirement	Citation	Regulations
Decommisioning plan approval. Subpart L - hearing opportunity provided. OPTION 2.	§ 2.1201(c).	None.

Proposed	Proposed	Current
Requirement	Citation	Regulations
Decommissioning- plan updating.	§ 50.71(f), § 50.82(b).	None.

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10 CFR 50.71(f)

The provisions of this section shall apply to each applicant and each holder of a possession-only license amendment.

10 CFR 50.82(b)

Each application for termination of license must be accompanied, or preceded, by a proposed decommissioning plan, which shall be a supplement to the FSAR.

Proposed	Proposed	Current
Requirement	Citation	Regulations
§ 2.206 rights. OPTION 2.	§ 50.82(h).	Already implicitly exist.

10 CFR 50.82(h)

Any person who has reason to believe that the license should not be terminated may file a petition pursuant to 10 CFR 2.206.

RECOMMENDATION

The Commission adopt Option 1 as supplemented by provisions set out in Option 2.