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UNITED STATES OF AMERICA

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NUCLEAR REGULATORY COMMISSION

+ + + + +

PUBLIC MEETING

+ + + + +

TUESDAY

January 28, 1997

+ + + + +

The Public Hearing was held at the Saxton  
Volunteer Fire Company Hall, Eight & Norris Street,  
Saxton, Pennsylvania, Ms. Norma Ickes, Chairman of the  
Bedford County Commissioners, presiding.

PRESENT:

Representing GPU Nuclear

G. A. KUEHN

SYLVIA J. MORRIS

Representing the Nuclear Regulatory Commission

ALEXANDER ADAMS

JOHN WHITE

DR. MICHAEL MASNIK

GENE <sup>HOLLER</sup>~~HOLLER~~

NEIL SHEEHAN

THOMAS DRAGON

1 PRESENT: (Cont.)

2 Representing the Nuclear Regulatory Commission

3 LEE THONUS

4 ETOY HYLTON

5 Bedford County Commissioners

6 GARY EBERSOL

7 DICK RICE

8 Representing State Representative Dick Hess

9 JAMES KEIFFER

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PROCEEDINGS

7:00 p.m.

MS. ICKES: Good evening. We have an annoying hum here, and we want to turn this off and get rid of it.

Speaking of annoyances, driving here tonight, I had someone behind me almost the entire way who had their left headlight on high beam, so I feel like I'm here with right eye abuse. Unfortunately, they live in Riddlesburg, and they followed me here almost the entire way.

I am Norma Ickes, I'm Chairman of the Bedford County Commissioners, and I was delighted when a few months ago Al Adams called and asked me to chair this meeting.

The Commissioners of Bedford County are very concerned with the dismantling of the reactor, and we are very anxious to take part in the process.

With me here tonight are my fellow Commissioners, Dick Rice, and also Gary Ebersol.

I would stress to you that this is an information gathering meeting. It is not any formal public hearing. I would ask you to take note that it will be transcribed.

At the end of the meeting, and you will see on

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1 your agenda, there is a public comment portion. And when  
2 you give your public comments, we would ask that they be  
3 done at the microphone. You will see the one back here,  
4 it doesn't have that annoying hum and it will be turned  
5 on.

6 We also have a transcriber here with us  
7 tonight. When you ask your question, please give your  
8 full name and spell your last name. If she has any  
9 problem hearing anything, she will raise her hand, and  
10 then you will need to repeat.

11 So we will then move on, also, to the fact  
12 that there is our agenda and other information in the back  
13 of the room. So if you do not have an agenda, at this  
14 point, would you raise your hand and we will see that you  
15 get one.

16 I would also ask that at some point, break  
17 would be a very good time, if you have not already done  
18 so, and are going to make a public comment, that you sign  
19 that sheet in the back, and also note that there is  
20 another sheet. This sheet will put you on a mailing list.

21 And in the interest of saving trees, we would  
22 ask that you share information. When this task force, and  
23 when the process is completed, then the mailing list will  
24 stop.

25 Also, keep in mind that the information from

1 the meeting, tonight, will be kept on permanent record at  
2 the Saxton library, so you can always look at it there if  
3 you don't care to keep copies for yourself.

4 We will have a bound transcript copy of all  
5 overhead slides, all the materials that are presented  
6 tonight. And if you have any information that you want to  
7 contribute to that, you can do so. If it is just a few  
8 sheets, it will be included. If it is a larger amount of  
9 material, then it will be at the discretion of the  
10 transcriber to make a summary of that material.

11 I would encourage you, during the break and at  
12 the end of the meeting, to stop and talk with those who  
13 are representatives of the Nuclear Regulatory Commission,  
14 and for those of you who are part of the media, we would  
15 ask that you hold your questions outside of the building  
16 or this general meeting area, and again, confine that to  
17 the break time or after the scheduled meeting.

18 I will now turn this meeting over to Al Adams,  
19 a representative of the Nuclear Regulatory Commission.

20 And before I do that, I would speak for all  
21 residents of the county. And when I think about this  
22 whole process, I think about the three C's. And that  
23 would be to exercise for all of us caution.

24 There is a healthy amount of caution needed  
25 here, whenever this process unfolds. Also, concern. We

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1 are very concerned. Our county is in your hands.

2 And the third C that I think of is  
3 credibility. We are looking to your credibility to  
4 provide us with a safe process.

5 Al?

6 MR. ADAMS: Thank you. Can everybody hear me?

7 Good evening. My name is Al Adams, I'm the  
8 NRC licensing project manager for the Saxton facility. I  
9 work in the Rockville, Maryland, NRC headquarters.

10 I have a number of other NRC people with me.  
11 I'd like to introduce them. Also from the Rockville  
12 office is Mike Masnik. He is the acting section chief of  
13 the decommissioning section of the non-<sup>power</sup>~~powered~~ reactors,  
14 and decommissioning project <sup>director.</sup>~~director~~.

15 Also with us is Paul Harris, he is a licensing  
16 project manager in our office. We have with us, also,  
17 Eugene Holler. He is an attorney from NRC headquarters  
18 with the office of the General Counsel.

19 Lee Thonus, he is a project manager from our  
20 project office at Three Mile Island. From the NRC region  
21 1 office in King of Prussia, Pennsylvania, is Thomas  
22 Dragoun, a project scientist who is responsible for the  
23 inspection program at Saxton, and John White, who is Tom's  
24 supervisor, and chief of the radiation safety branch.

25 From the Region 1 public affairs office, is

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1 Neil Sheehan. Can I have the next slide, please?

2 The purpose of tonight's meeting is to provide  
3 you with some information on the decommissioning of  
4 nuclear reactors, to share with your our experiences in  
5 the oversight of decommissioning activities, to explain  
6 the Commission's regulations on decommissioning, and where  
7 the Saxton facility fits into the regulatory framework,  
8 and to allow the licensee to discuss the decommissioning  
9 of Saxton.

10 First a few words about NRC. NRC was formed  
11 in 1975, succeeding the Atomic Energy Commission, to  
12 regulate the various commercial and institutional uses of  
13 nuclear energy.

14 NRC has responsibility to protect public  
15 health and safety. We accomplish this by three principal  
16 regulatory functions.

17 We establish standards and regulations, we  
18 issue licenses for facilities and users of nuclear  
19 material, and we inspect facilities and users to assure  
20 compliance with the requirements.

21 NRC places high priority on keeping the public  
22 informed of its work. This is the reason for being here  
23 today.

24 At this point it might be helpful to explain  
25 some terms that come up frequently, when discussing

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1 decommissioning. Two of these terms are "radioactive  
2 activation and radioactive contamination."

3           Radioactive activation is the process of  
4 inducing radioactivity, or making something radioactive by  
5 irradiation. Activation can only occur when the reactor  
6 is operated, and only in material near the reactor core  
7 that interacts with the neutrons produced by operation of  
8 the reactor.

9           Steel that is inside the reactor vessel, and  
10 has been irradiated by neutrons during the time the plant  
11 operated, becomes activated.

12           Radioactive contamination is the deposition of  
13 radioactive material in a place where it is not desired.

14           For example, the inside of a pump may be  
15 contaminated on its surfaces by contact with elements in  
16 water that were activated when the water passed through  
17 the neutron field in the core of the operating reactor.

18           The pump could be decontaminated by removing  
19 the radioactive contamination by washing. This  
20 decontamination process may produce some radioactive waste  
21 that is disposed of, off-site, but may allow the pump to  
22 be released for unrestricted use.

23           On the other hand, no amount of scrubbing on  
24 the surface of activated metal in the reactor vessel will  
25 remove the atoms scattered throughout the interior of the

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1 metal that have become radioactive due to activation.

2 That piece of metal will have to be physically  
3 dismantled and disposed <sup>of</sup> ~~off~~ off-site. Items that are  
4 activated or contaminated or both are found at the Saxton  
5 facility.

6 Two other terms that may be used frequently  
7 during a discussion of decommissioning are "radioactive  
8 decay and half life."

9 The nucleus of a radioactive atom is unstable,  
10 and wants to disintegrate by the emission of charged  
11 particles, or photons. This is called radioactive decay.

12 The amount of time it takes for radioactive  
13 substance to lose half of its activity by radioactive  
14 decay is the half-life.

15 For example, a common element found in the  
16 steel used in reactors is cobalt. The radioactive  
17 activation of cobalt usually produces a radioactive  
18 isotope of cobalt called cobalt 60.

19 It has a half-life of about five and a quarter  
20 years, and decays into non-radioactive nickel. As an  
21 example, if we assume there was 100 ounces of cobalt 60 at  
22 Saxton when it shut down in May 1972, there would be about  
23 four ounces of Cobalt 60 today, and about 96 ounces of  
24 nickel.

25 This means that 96 percent of Cobalt 60 will

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1 decay away over a period of 25 years.

2 Now I would like to talk, in general, about  
3 decommissioning of reactors. There are definite stages in  
4 the life of a nuclear reactor, including planning,  
5 construction, licensing, operation, and finally  
6 decommissioning and license termination.

7 The purpose of decommissioning is to remove  
8 the facility safely from service, and reduce residual  
9 radioactivity at the facility and site to a level that  
10 permits the release of the site, and termination of the  
11 NRC license.

12 The focus of the NRC is limited solely to the  
13 safe removal of the radiological hazards resulting from  
14 the operation and use of the facility.

15 For example, if the licensee has  
16 decontaminated structures to levels that meet the release  
17 criteria, it is possible that a site could be released and  
18 the license terminated, with structures remaining on-site.

19 At that point, the fact that a licensee may or  
20 may not choose to spend additional funds to remove  
21 buildings from a site, is outside our regulatory  
22 oversight.

23 One aspect of decommissioning is removing the  
24 facility safely from service. At Saxton, the facility was  
25 removed from service in the early 1970's. Once a facility

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1 permanently ceases operations, the systems at the facility  
2 of continuing regulatory concern, are principally those  
3 used for the safe storage of irradiated spent fuel.

4 At Saxton, the fuel and some other radioactive  
5 components were removed from the facility during the 1972  
6 to 1974 time frame.

7 In 1975 the facility was placed into a form of  
8 long-term storage, that is now called SAFSTOR, to allow  
9 radioactive decay of activated and contaminated  
10 components.

11 Once the residual levels of radioactive  
12 materials are reduced to below certain criteria, either by  
13 decontamination or dismantlement and disposal off-site,  
14 the <sup>license</sup> NRC for the facility and site can be terminated.

15 Before the license is terminated, the licensee  
16 has to perform an extensive final survey that proves to  
17 the NRC that the site is clean enough to terminate the  
18 license.

19 The NRC may do a confirmatory survey, to be  
20 certain that the site is clean enough. Once the license  
21 is terminated, the NRC no longer has any regulatory  
22 oversight over the facility or site.

23 This is the ultimate goal of decommissioning,  
24 termination of the license.

25 So to summarize, decommissioning is the

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1 removal of the facility from service, and the reduction in  
2 the levels of radioactivity at the facility and the site,  
3 to levels that will ultimately result in the termination  
4 of the license.

5 NRC oversight activities relate directly to  
6 the proper decontamination and dismantlement of the  
7 facility, to protect public health and safety.

8 Now that I've provided some background on  
9 decommissioning I would like to talk a little about our  
10 experiences with decommissioning reactors in the United  
11 States.

12 We have had 15 nuclear power reactors  
13 permanently cease operations and begin decommissioning  
14 since the early 1960s. Also, about 80 research and test  
15 reactors have been decommissioned, and have had their  
16 licenses terminated.

17 I have put a few selected facilities on the  
18 slide. There has been a fair amount of experience in the  
19 area of decommissioning. A number of nuclear power plants  
20 licensed by NRC are in long-term storage. The condition  
21 is called SAFSTOR.

22 Some nuclear power plants are actively being  
23 dismantled, and one, the Shoreham plant, has had its  
24 license terminated.

25 The Fort St. Vrain plant in Colorado is also

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1 very close to having its license terminated. Trojan and  
2 Yankee Rowe are currently undergoing active  
3 decommissioning.

4 Shippingport was under Department of Energy  
5 jurisdiction, but is another example that decommissioning  
6 can be completed safely.

7 Please note that Saxton, which was licensed  
8 for power levels up to about 35 megawatts, is much smaller  
9 than some of the other facilities we have dealt with.

10 NRC also has a number of experienced personnel  
11 who are working on oversight of decommissioning  
12 activities. Some of these people are with us today.

13 For example, Mike Masnik and Lee Thonus were  
14 involved in the oversight of the clean up of Three Mile  
15 Island Unit II for many years. And Mike is the project  
16 manager for the Trojan nuclear plant, which is now  
17 undergoing active decommissioning.

18 Gene Holler is a legal expert on  
19 decommissioning rules and regulations, and has worked with  
20 our group on many decommissioning issues. I have been  
21 project manager for 11 decommissionings and 9 license  
22 terminations.

23 In the region, Tom Dragoun has been the  
24 inspector for three decommissionings and two license  
25 terminations.

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1           On my slide about the status of shut down  
2 reactors, I show that we have some facilities that are in  
3 long-term storage, or in decontamination and  
4 dismantlement.

5           Our regulations require licensees to establish  
6 if dismantlement should begin immediately, or if the  
7 facility can be stored in a safe, stable condition for  
8 some period of time, before the licensee begins  
9 dismantlement.

10          The licensee may even conduct a partial  
11 dismantlement, followed by a storage period, ending with  
12 final dismantlement. This is the path that Saxton has  
13 taken.

14          Our regulations s / that under normal  
15 circumstances, the licensee has 60 years after shutdown to  
16 complete decommissioning.

17          The decision to dismantle immediately or place  
18 the facility in storage is a licensee decision. This  
19 decision is reviewed by the NRC to ensure that whatever  
20 approach is planned, there is acceptable assurance that it  
21 would be conducted safely.

22          NRC performed the generic environmental impact  
23 study that looked at decommissioning options, and we  
24 determined that as long as the licensee complied with our  
25 regulations, either option, or a combination of options

1 could be acceptable.

2 One of the principal reasons for arriving at  
3 this conclusion is because the risk to public health and  
4 safety, and to the environment associated with licensee  
5 activities at nuclear reactor facilities undergoing  
6 decommissioning, is significantly less than when the plant  
7 was operating.

8 The risk at Saxton significantly decreased  
9 with the cessation of operations, and the removal of fuel  
10 from the site, and continues to decrease during the  
11 storage period, due to radioactive decay.

12 This reduction in risk is so significant, that  
13 many of the regulatory requirements associated with plant  
14 operation are no longer needed.

15 For example, many of the detailed technical  
16 requirements applicable only to an operating plant, such  
17 as operating parameters and surveillance requirements were  
18 gradually removed from the license starting in 1972, based  
19 on a detailed evaluation by the NRC staff of the risk.

20 So to summarize, there have been a number of  
21 reactors in the United States that have been permanently  
22 shutdown, are in the process of decommissioning, and have  
23 completed decommissioning and undergone license  
24 termination.

25 Decommissioning is a well established and

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1 understood process, and the NRC staff has considerable  
2 experience on the oversight of these activities.

3           There is a reduction in regulatory  
4 requirements on licensees as decommissioning progresses.  
5 This reduction is based on the significant reduction in  
6 risk to the public due to permanent cessation of reactor  
7 operation.

8           I next want to talk a little about the  
9 regulations governing decommissioning. The  
10 decommissioning regulations are in addition to other  
11 regulations that the licensee must follow, such as those  
12 related to radiation safety.

13           Comprehensive regulations dealing with reactor  
14 decommissioning were promulgated in 1988.  
15 Based on the experience gained over the next seven years,  
16 the Commission extensively revised the regulations of  
17 1996.

18           In July of 1996, the NRC published a final  
19 rule making that substantially changed the decommissioning  
20 process. I will discuss the relationship of the  
21 regulations to the Saxton decommissioning process.

22           The regulations require that each power  
23 reactor licensee submit a preliminary decommissioning cost  
24 estimate about 5 years prior to the projected end of  
25 operations.

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1 Obviously, in the case of Saxton, the reactor  
2 was permanently shut down before/<sup>a</sup>preliminary cost estimate  
3 was even required by the regulations.

4 However, they still have been collecting the  
5 funds necessary for decommissioning the facility, and have  
6 submitted decommissioning cost estimates to NRC.

7 The licensee is required to submit a written  
8 certification to the NRC within 30 days of the decision to  
9 permanently cease operations. And, again, when the fuel  
10 has been permanently removed from the reactor vessel.

11 Because the Saxton license was permanently  
12 modified in 1972 to allow possession but not operation of  
13 the facility, the rules specify that the required  
14 certifications have been submitted.

15 Saxton had started down the path for  
16 decommissioning and license termination, under  
17 decommissioning regulations that the NRC issued in 1988.

18 A decommissioning plan to decontaminate the  
19 containment vessel and its structures, systems and  
20 components, was submitted to NRC in February of 1996,  
21 followed by a decommissioning environmental report, and  
22 proposed decommissioning technical specifications.

23 The staff had these documents under review  
24 with a planned completion date of late fall 1996. <sup>When</sup> ~~With~~  
25 the proposed amendment to NRC's decommissioning

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1 regulations were published <sup>on</sup> ~~in~~ July 29, 1996, the licensee  
2 requested that the review of the decommissioning plan and  
3 related documents be suspended, because of changes to the  
4 regulations which eliminated the requirement to submit a  
5 decommissioning plan, and the requirement that NRC review  
6 the plan.

7           The 1996 regulations state that within two  
8 years of permanently ceasing operations, the licensee must  
9 submit a post-shutdown decommissioning activities report,  
10 called a PSDAR, to the NRC with a copy to the affected  
11 states.

12           The purpose of the PSDAR is to provide the NRC  
13 staff with sufficient information to assure the proper NRC  
14 oversight of any significant decommissioning activities,  
15 to require the licensee to examine its plans for the  
16 funding of the decommissioning activities, and to require  
17 the licensee to examine its plans for decommissioning to  
18 assure that the activities will not result in  
19 environmental impacts that have not been previously  
20 considered.

21           For licensees like Saxton, that had a  
22 decommissioning plan under review by NRC, the regulations  
23 state that the decommissioning plan is considered to be  
24 the PSDAR.

25           The PSDAR must include a description of

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1 planned decommissioning activities, along with a schedule  
2 for their accomplishment, an estimate of expected costs,  
3 and a discussion that provides the reasons for concluding  
4 that the environmental impacts associated with site  
5 specific decommissioning activities will be bounded by  
6 previously issued environmental impact statements.

7           The 1996 regulations require the NRC to notice  
8 the receipt of the PSDAR in the Federal Register, and make  
9 it available to the public.

10           We are also required to hold a meeting in the  
11 vicinity of the nuclear site, to allow the licensee an  
12 opportunity to present their plans for decommissioning of  
13 the facility, to describe the role of the NRC in the  
14 decommissioning of the facility, and to listen and respond  
15 to questions from members of the public.

16           This notice appeared <sup>in</sup>~~on~~ the Federal Register  
17 on December 19, 1996. This is why we are here tonight.

18           The licensee is prohibited from undertaking  
19 any major decommissioning activities until 90 days after  
20 they submit the PSDAR. Major decommissioning activities  
21 are those activities that result in permanent removal of  
22 major radioactive components, permanent modifications to  
23 the containment, or result in dismantling components for  
24 shipment that contain large amounts of radioactive  
25 material. We call it, containing greater than class C

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1 waste.

2 Major components are those such as the reactor  
3 vessel, steam generators, pressurizers, large bore reactor  
4 coolant system piping, and other large components that are  
5 radioactive to a comparable degree.

6 The purpose of the 90 day period is to allow  
7 sufficient time for the NRC staff to examine the PSDAR, to  
8 publish notification of its receipt in the Federal  
9 Register, to hold a public meeting in the vicinity of the  
10 facility, to discuss the licensee's plans, and to conduct  
11 any necessary safety inspections prior to the initiation  
12 of major decommissioning activities.

13 Under the 1996 rule the NRC staff is not  
14 required to review and approve the PSDAR. As I stated  
15 earlier, the PSDAR must contain a description of planned  
16 decommissioning activities, along with a schedule for  
17 their accomplishment, an estimate of expected costs, and a  
18 discussion that provides the reasons for concluding that  
19 the environmental impacts associated, <sup>with site</sup> ~~would take~~ specific  
20 decommissioning activities, will be bounded by previously  
21 issued environmental impact statements.

22 The staff examines the PSDAR, and makes a  
23 determination as to whether or not it provides the  
24 information required by the regulations. In addition, the  
25 staff considers comments received from members of the

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1 public.

2 If the information provided is not consistent  
3 with the requirements of the 1996 rule, then the NRC staff  
4 will require the licensee to amend their submittal, prior  
5 to allowing major decommissioning activities.

6 If the licensee's submittal complies with the  
7 information requirements of the 1996 rule, then the NRC  
8 staff will document this in a memorandum that will be  
9 placed on the docket.

10 For the Saxton facility, the staff is in the  
11 process of comparing the information contained in the  
12 decommissioning plan, which turned into the PSDAR, with  
13 the informational requirements stated in the 1996 rule.

14 As I stated earlier, one of the reasons for  
15 this meeting is to listen and respond to questions from  
16 the public. Your questions and comments tonight, as well  
17 as any written comments, will be considered by the staff,  
18 and addressed in a memorandum the staff will place on the  
19 Saxton docket.

20 The staff hopes to complete determination of  
21 the licensee's compliance with the regulations, and  
22 considerations of public comments, by the end of March.

23 Although the Saxton PSDAR was considered to be  
24 submitted more than 90 days ago, the licensee has not  
25 started any major decommissioning activities.

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1           This is because there is a requirement in the  
2   Saxton license that GPU shall not dismantle or dispose of  
3   the facility, or property occupied by the facility,  
4   without prior approval of the Commission.

5           The technical specifications state that the  
6   licensee is prohibited from taking any action which  
7   results in alteration of the containment vessel, removal  
8   of major radioactive components, or results in dismantling  
9   of components.

10          These requirements can only be changed by  
11   amendment of the facility license. The licensee submitted  
12   a request for license amendment to change these  
13   requirements, and make other changes to the license and  
14   technical specifications to support decommissioning  
15   activities.

16          The licensee also submitted an <sup>updated</sup>~~update~~ safety  
17   analysis report, which described the current facility  
18   condition, and <sup>updates</sup>~~update~~ the accident analysis, to include  
19   accident scenarios applicable to active decommissioning  
20   conditions.

21          The NRC staff currently has <sup>the</sup>proposed changes  
22   to the facility license and technical specifications under  
23   review. The staff is also reviewing the environmental  
24   report that was submitted with the decommissioning plan.

25          This environmental report is now being used to

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1 support the environmental assessment which the NRC will  
2 prepare for decommissioning activities that will occur  
3 after the license amendment is granted.

4 This license amendment request will be noticed  
5 in the Federal Register, providing for a 30 day comment  
6 period, and an opportunity to request a hearing.

7 The licensee's application and NRC  
8 correspondence related to it, can be found in the local  
9 public document room for Saxton, located in the Saxton  
10 public library.

11 After approval of the license amendment, the  
12 licensee could begin to perform major decommissioning  
13 activities without specific NRC approval, using a process  
14 described in the Commissions regulations, contained in the  
15 Code of Federal Regulations, Title 10, Section 50.59, also  
16 know as 10 CFR 50.59.

17 10 CFR 50.59 allows licensees to take certain  
18 actions without getting prior approval from the  
19 Commission, unless the action requires a change in the  
20 technical specifications, or raises an unreviewed safety  
21 question.

22 The licensee has to perform a review to  
23 determine if they can take the action they want without  
24 prior NRC approval. The review also contains  
25 justification if the licensee determines that no

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1     unreviewed safety question exists.

2             The licensee is required to maintain records  
3     of their reviews, and send in reports to NRC. The  
4     licensee's process for performing these reviews, and the  
5     reviews themselves, are carefully evaluated during NRC  
6     inspections.

7             The new rule also imposed some additional  
8     requirements on decommissioning activities by the  
9     licensee. The licensee is prohibited from performing any  
10    decommissioning activity that would foreclose the release  
11    of the site for possible unrestricted use, result in  
12    significant environmental impacts not previously reviewed,  
13    or result in there no longer being reasonable assurance  
14    that adequate funds will be available for decommissioning.

15  
16            Once the staff has amended the license and  
17    examined the PSDAR, the regulatory road is clear for the  
18    licensee to begin decommissioning in earnest.

19            The NRC staff will be actively involved in on-  
20    site inspections, and reviewing licensee documentation of  
21    the safety basis of their activities.  
22    The NRC staff would continue to have interactions with the  
23    public and the affected states.

24            Two years prior to the planned termination of  
25    the license, the licensee would submit a <sup>license</sup>~~licensee~~

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1 termination plan. The license termination plan will  
2 include a site characterization, identification of  
3 remaining dismantlement activities, plans for site  
4 remediation, detailed plans for the site termination  
5 radiation survey, a description of the end-use of the  
6 site, if restricted, an updated site-specific estimate of  
7 remaining decommissioning costs, and if needed, a  
8 supplement to the environmental report, describing any new  
9 information or significant environmental change associated  
10 with the licensee's proposed termination activities.

11 The NRC staff will notice the receipt of the  
12 license termination plan in the Federal Register, make the  
13 plan available for public comment, and afford an  
14 opportunity for a hearing on the plan.

15 The NRC will also hold a public meeting in the  
16 vicinity of the site, to allow the licensee to explain the  
17 license termination plan to the public, to discuss the  
18 remaining NRC activities associated with terminating the  
19 license, and to allow the public to ask questions.

20 NRC approval of the license termination plan  
21 will be made by license amendment, which would authorize  
22 implementation of the license termination plan.

23 The licensee then continues to clean up the  
24 site and perform the final radiation survey. The NRC  
25 staff will continue to provide oversight during this

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1 process, and retains the option of performing our own  
2 confirmatory survey of the site.

3 The Commission shall terminate the license if  
4 it determines that the remaining activities have been  
5 performed in accordance with the approved license  
6 termination plan, and the terminal radiation survey, and  
7 the associated documentation demonstrates that the  
8 facility and site are suitable for release.

9 So this is the decommissioning process that  
10 Saxton will follow. There are a few aspects of this  
11 process that are unique to Saxton. Saxton will probably  
12 be the first license taken to termination under these new  
13 regulations.

14 Your questions and your comments are always  
15 welcome. Here is the mailing address, phone number, fax  
16 number, and electronic mail address for Tom and myself.

17 I would now like to introduce you to John  
18 White from NRC Region 1, who will tell you about the  
19 decommissioning inspection process, and what will happen  
20 at Saxton when decommissioning activity starts.

21 After John speaks, we will be happy to take  
22 questions about our presentations.

23 MR. WHITE: Good evening. My name is John  
24 White, I'm Chief of the Radiation Safety Branch, NRC  
25 Region 1.

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1 I'd like to take this opportunity to re-  
2 introduce you to Tom Dragoun. Relative to the inspection  
3 process that NRC conducts, has conducted in the past here  
4 at Saxton, and will conduct in the future, Mr. Tom Dragoun  
5 is the principal inspector. He is a senior project  
6 scientist in the NRC Region 1, and he is responsible for  
7 the coordination and the conduct of most of the inspection  
8 activities that will be conducted here at Saxton.

9 Just a couple of minutes to explain the  
10 inspection process that we intend for Saxton. Relative to  
11 decommissioning, the purpose of our inspection process is  
12 generally to obtain information, by direct observation,  
13 and to directly verify that the licensee is, in fact,  
14 conducting decommissioning activities in a safe manner.

15 That is our principal concern, and our  
16 principal objective relative to our inspection program.

17 In most facilities that undergo  
18 decommissioning, spent fuel is part of the process, and is  
19 a major aspect of our inspection effort, because this fuel  
20 is still highly radioactive, and is remaining on-site in a  
21 spent fuel pool.

22 In the case of Saxton -- in the case of  
23 Saxton, this is not a factor. As Al pointed out, the fuel  
24 at Saxton was removed from site some 25 years ago, so  
25 there is no fuel remaining at Saxton.

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1           The other part of our inspection process is to  
2 verify and validate that all the activities that the  
3 licensee conducts relative to decommissioning of the site,  
4 are done in strict accordance with our rules and  
5 regulations, with the license conditions that are imposed,  
6 and with the commitments that the licensee has made to the  
7 NRC relative to decommissioning.

8           Our procedures for conducting an inspection  
9 are formalized, and are directed to a number of different  
10 activities. The ones that are displayed here are some of  
11 those activities.

12           ~~The~~ They include, but are not limited to these  
13 activities, management and organizational effectiveness of  
14 the operating organization at Saxton. We also look at the  
15 licensee's ability to conduct self assessment and audits,  
16 and identify their own problems, and correct those  
17 problems.

18           We also look at design control,  
19 decommissioning control, work process control. An  
20 important aspect of this is an activity called 50.59, that  
21 is in reference to 10 CFR 50.59, which allows the licensee  
22 to make changes in the facility as is currently described  
23 in their safety analysis report, and make a determination  
24 that prior to making such changes, that they do not --  
25 that those changes do not constitute an unreviewed safety

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1 question.

2 So our inspection activity will be directed to  
3 looking at the licensee's process and their conduct of  
4 these types of evaluations.

5 We will also be looking at maintenance and  
6 surveillance activities that the licensee needs to  
7 conduct. Decommissioning of a facility that is  
8 contaminated is a rather large, health physics event.

9 It involves radiological controls, radiation  
10 protection, and so a large aspect of our program is  
11 devoted to the licensee's ability to control the exposure  
12 to the people who work there, control the exposure to the  
13 environment, and to impact on the environment, and to  
14 monitor and control any <sup>effluents</sup> ~~effluents~~ that are caused by this  
15 decommissioning activity.

16 And relative to that, to verify that their  
17 <sup>effluent</sup> ~~effluent~~ monitoring and control program is in accordance  
18 with our rules and regulations.

19 As we conduct inspection activities at Saxton,  
20 our inspections are performance based. We will always be  
21 looking at how the licensee is performing.

22 If we identify declining trends in this  
23 performance, we will rapidly identify that to a licensee,  
24 and we will expect rapid response on the licensee's part,  
25 in terms of identifying the root causes for those

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1 declining trends, and effective corrective action to  
2 ameliorate that process.

3 The other part of our inspection program will  
4 be to assure that we have allocated the correct resources  
5 to inspecting the decommissioning process. While Tom is  
6 the principal inspector, and will be conducting most of  
7 these inspections at the facility, depending upon the  
8 activities that are conducted, there may be need to  
9 involve other NRC inspectors or other NRC specialists to  
10 review certain activities that are being conducted at the  
11 facility.

12 The specialists may include fire protection  
13 specialists, health physics specialists, occupational  
14 safety and health specialists, and any other contractors  
15 that we may see or need to be employed, or need to be  
16 engaged in the inspection process, and Tom will be  
17 coordinating those activities.

18 So that is, in a nutshell, what our inspection  
19 program is about, and what we intend to accomplish  
20 relative to the Saxton decommissioning activity.

21 Thank you.

22 MR. ADAMS: Questions?

23 MR. NOVAK: My name is Karl Novak, N-O-V-A-K,  
24 as required by the requirement here, first name Karl, K-A-  
25 R-L.

1           You talked about inspections. Essentially,  
2 are you going to have people on the site while they are  
3 working? I mean, somebody from NRC on the site while they  
4 are working on this, during the eight hour day, or twelve  
5 hour day, or whatever it might be?

6           MR. WHITE: We will not have a resident  
7 inspector on the site. Our inspection program is a  
8 program that will be looking at those activities that were  
9 displayed here in the view graph, but we will also be  
10 conducting activities of major component dismantlement and  
11 removal.

12           Any major significant activity that a licensee  
13 does relative to their decommissioning plan, we will have  
14 an inspector on site to review that. Shipping of rad  
15 material that is an outcome of this decommissioning  
16 process, we will review that, also.

17           But we will not have a resident inspector  
18 assigned to this site. So our inspections will be  
19 conducted over a period of time, to just give you a base  
20 line for thinking about it, this may be -- you know, to  
21 begin with, as the licensee progresses through initiating  
22 this decommissioning, we may be up here, this year, maybe  
23 four to five times, to look at various activities. But we  
24 will not have a resident on site.

25           MR. NOVAK: But you will be here if anything

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1 is put -- is taken out and is put on a truck, or whatever  
2 you are going to put it on for transportation, is that  
3 true?

4 MR. WHITE: Any major activity that takes  
5 place, we plan to be here.

6 MR. NOVAK: You plan -- you will be here, or  
7 you plan to be here?

8 MR. WHITE: For major component removal, major  
9 shipping activities, it is our plan to be here, to have an  
10 inspector here. Tom, you want to make a comment?

11 MR. NOVAK: You didn't answer my question.

12 MR. DRAGON: We have a telephone conference,  
13 once a week, every Wednesday at 1:30. The conference  
14 involves NRC headquarters, the region, people at the site.  
15 And what we do is we review the activities of the past  
16 week, and the activities for the coming week.

17 And during that conference we discuss  
18 essentially what has been done in terms of major work, and  
19 what is planned to be done in terms of major work. So  
20 although we are not on the site, we are in quite frequent  
21 communications with the site.

22 MR. NOVAK: Thank you. One of the primary  
23 things I'm very concerned is the transportation of this  
24 material. Have you planned to take it through Bedford  
25 County?

1 I mean, what are your routes of removal of  
2 this material.

3 MR. WHITE: The licensee has not advised us of  
4 what their routing is, but we will inspect that when the  
5 time comes.

6 MR. NOVAK: Is there any involvement of NRC  
7 after it leaves the site, or is it just sort of every man  
8 for himself?

9 MR. DRAGOUN: Let me address your question  
10 just a minute ago. I have already reviewed their program  
11 on site for the control of shipments from the site. Part  
12 of that was driven by the fact that the NRC regulations,  
13 and the Department of Transportation regulations changed  
14 this past year, in April, to bring this country in line  
15 with the rest of the world, essentially.

16 And during that review of the program, I was  
17 accompanied by a representative from the Commonwealth, a  
18 fellow by the name of Ken Singh, because they were  
19 interested in -- the state is also interested in  
20 transportation of material, obviously, through the state.

21 And the results of that were, everything looks  
22 fine. Now, they had not made a major shipment yet. The  
23 last shipment was in 1994 when they took quite a bit of  
24 dirt off-site, and that was observed.

25 Their next shipment is going to be some

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1 asbestos that they removed from the inside. This is  
2 mildly contaminated with radioactive material. That is  
3 prepared to go. And while we are here, for this meeting,  
4 that is one of the subjects that we are going to review,  
5 take a look at their preparations, the paperwork, what  
6 arrangements they made, and so on.

7 The state fellow was supposed to be here, but  
8 couldn't make it because of the condition of the roads.

9 MR. NOVAK: Let's go on with transportation.  
10 How about the emergency response management team; have  
11 they been trained to take care of accidents that possibly  
12 might happen along the way with regards to these  
13 shipments?

14 MR. DRAGON: Well, the emergency response  
15 depends on what happens. The truck driver is always given  
16 training when they take the shipment. And of course it  
17 depends on what kind of shipment it is, just how hazardous  
18 its classification, in other words.

19 That notification is made by the truck driver,  
20 if he has a problem, and if he is able to make it. He  
21 calls phone numbers that are given to him by GPU. That,  
22 in turn, turns on an appropriate response.

23 The NRC does not have a response team.  
24 However, the various states on the path to the disposal  
25 sites do have response teams. But the training that they

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1 get, I'm not familiar with that.

2 MR. NOVAK: So essentially the response team  
3 that we have in this county really hasn't had any  
4 training, is that what you are telling me?

5 MR. DRAGOUN: No, I didn't say that.

6 MR. NOVAK: Does anybody know the answer to  
7 that?

8 MR. DRAGOUN: The transportation of material  
9 on the public roads is a function of the Department of  
10 Transportation. The NRC has regulations about preparing  
11 shipments. Once a shipment rolls off a site, the DOT  
12 rules kick in.

13 And exactly what the DOT requires for a local  
14 response teams, I'm not sure.

15 MR. NOVAK: I see. Then, possibly what we  
16 should have this evening is a representative from the  
17 Department of Transportation, is that what you are telling  
18 me?

19 MR. DRAGOUN: I think to answer your questions  
20 on over the road transportation, yes, that is correct.

21 MR. NOVAK: So there are no regulations from  
22 the NRC with regards to the transportation of waste from  
23 nuclear sites, from one point to another, is that what you  
24 are saying?

25 MR. DRAGOUN: There are NRC regulations for

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1 the preparing of the shipment, how it has to be packaged,  
2 the container that it is in. For instance, containers  
3 have to pass tests where they have to be filled up with  
4 wet sand and raised to a certain height and dropped on the  
5 ~~ridge~~<sup>edge</sup>, on concrete, and stuff like that.

6 We have regulations for that, yes, we do. So  
7 preparing the material for shipment, and then the  
8 paperwork like the notifications that have to be made if  
9 there is a problem, that is all done before the material  
10 leaves the site, and various protection measurements, the  
11 shipment has to be surveyed to make sure that the dose  
12 rates coming off of it meet DOT requirements.

13 MR. NOVAK: Well, I guess really basically  
14 what we need then, to close the circle on this, and have  
15 some kind of an input with regards to what is going to  
16 take place in the way of training of our emergency  
17 management people here in this county, and also what, if  
18 they are notified when these shipments go, and what the  
19 requirements are from the Department of Transportation.

20 Because I think without that closing of that  
21 loop, I think we are sort of, you know, left out here  
22 without sufficient information on what is going to happen  
23 here in the county, and what possibly might happen.

24 So we make sure that we have the safety and  
25 the health of the people in this county taken care of.

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1 Are there any expectations as far as the route  
2 of movement; is that all up to the company, or do you get  
3 involved in that?

4 MR. DRAGOUN: Well, some shipments, depending  
5 on their classification, some are controlled route  
6 quantities. In other words, there are certain roadways  
7 that are allowed and certain that are not allowed. But  
8 exactly what the -- what those control routes are in this  
9 area, I'm not -- I don't know at this point.

10 It is possible, like when they take out the  
11 reactor vessel itself, they are planning to ship that  
12 intact, filled with concrete. That will probably be most  
13 probably a route control quantity.

14 And so that will -- and not only is there  
15 avoiding population areas and so on, but there is also  
16 things like overhangs on the road, and bridge capacities,  
17 and a lot of other considerations.

18 MR. NOVAK: Where is this waste going?

19 MR. DRAGOUN: That is not our --

20 MR. NOVAK: That is not your responsibility?

21 MR. DRAGOUN: Right.

22 MR. ADAMS: You can ask that of the licensee  
23 after their presentation.

24 MR. DRAGOUN: But there are two general  
25 facilities available in the country, right now. One of

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1       them is in Utah, in Clyde, Utah, and the other is in  
2       Barnwell, South Carolina.

3               MR. NOVAK: I think I've exhausted all my  
4       questions, thank you.

5               MR. ADAMS: Any other questions?

6               MS. GIBSON: Mine are much simpler. My name  
7       is Alicia Gibson. My question is, when you were going  
8       over the decommissioning, I'd like to know whose idea or  
9       who was responsible for submitting the license, was it the  
10      people in Saxton that said they wanted the nuclear power  
11      plant dismantled, and then they went ahead and got  
12      together and submitted that the license should be formed,  
13      or was it like the NRC, or was it the --

14              MR. ADAMS: Is your question, who decides it  
15      is time to decommission?

16              MS. GIBSON: Yes. Who decided that the  
17      containment was going to be dismantled?

18              MR. ADAMS: That is a licensee decision.

19              MS. GIBSON: Who is the licensee?

20              MR. ADAMS: Saxton Nuclear Experimental  
21      Corporation and GPU Nuclear are joint licensees.

22              MS. GIBSON: So they decided, they kind of  
23      came in and took a look at the plant and decided that it  
24      should be removed?

25              MR. ADAMS: Yes.

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1 MS. GIBSON: And then when it goes to South  
2 Carolina, I just read in the newspaper that it goes to a  
3 river. Are they going to take the stuff and dump it in  
4 the river, or are they going to take and put it someplace  
5 very safe, so that it doesn't cause any harm to the air,  
6 the water, the land?

7 MR. ADAMS: You mean South Carolina?

8 MS. GIBSON: Yes.

9 MR. ADAMS: That is a licensed facility for  
10 disposal of nuclear waste.

11 MS. GIBSON: But do they put it in the river?

12 MR. ADAMS: No, it goes in the ground. And  
13 I'm not an expert on this, but --

14 MS. GIBSON: Right, but it goes in the ground.  
15 Why did it say river in the newspaper, like they were  
16 sending it to the river?

17 MR. ADAMS: I didn't see the newspaper. Oh,  
18 okay. You are talking about Savannah River?

19 MS. GIBSON: Yes, is it the town or the river?

20 MR. ADAMS: That is a location, that is the  
21 location in South Carolina where the U.S. Department of  
22 Energy has a facility.

23 MS. GIBSON: All right.

24 MR. ADAMS: And in the 1970s, the spent fuel  
25 from the facility went to the Savannah River facility. It

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1 wasn't dumped in a river or anything like that.

2 MS. GIBSON: That is just like a town?

3 MR. ADAMS: That is the name of the town, the  
4 place is Savannah River.

5 MS. GIBSON: Okay. That answers my questions,  
6 thanks.

7 MR. FULLER: My name is Ernest Fuller.  
8 Following up on the transportation question, if you folks,  
9 as I understand it, would allow them for instance, to take  
10 the reactor vessel out and take it out of the containment  
11 vessel, have it sitting outside, but then they might --  
12 South Carolina might decide to close their site again, in  
13 which case the reactor vessel would be sitting out in the  
14 flood plain.

15 How is that possibility dealt with in terms of  
16 letting them go ahead without having a clear  
17 transportation and disposal plan?

18 MR. DRAGOUN: Well, you have to keep in mind  
19 that there are many things that have to be coordinated to  
20 actually have this happen.

21 Now, one of the areas the NRC gets involved  
22 in, we would have to approve it as a package, and that has  
23 not been done yet. It kind of relates to the other  
24 gentleman's question, what is the NRC's responsibility?

25 And our responsibility, essentially, is to

1 make sure that the container or the package that is being  
2 used to ship the material, meets certain criteria.

3 At this point GPU has not come to the NRC and  
4 asked for approval of the container, essentially the  
5 vessel to be shipped.

6 MR. FULLER: But you are giving,  
7 theoretically, assuming you approve their current plan,  
8 you are giving them permission to take it out of the  
9 containment vessel, and put it out on the ground somewhere  
10 nearby, according to their plan.

11 They can do that without having prepared any -  
12 - you know, having a guarantee of where it is going to go  
13 or how it is going to be transferred?

14 MR. DRAGON: We haven't reviewed their plan,  
15 yet, and I don't believe that they've got one, or if they  
16 have one, they haven't shown it to us.

17 But clearly, there is a review process that  
18 has to go on, the 50.59 process, to make sure that there  
19 is no unreviewed safety questions. And taking the vessel  
20 out and having it stay on site for some period of time,  
21 being subjected to flooding or something like that, and if  
22 that becomes an unreviewed safety question, then they  
23 would have to come back to the NRC.

24 MR. MASNIK: Mike Masnik. This process of  
25 certifying this container is quite an elaborate process,

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1 and they have to assure that it can meet a certain number  
2 of tests.

3 Additionally, this sort of activity has been  
4 going on quite frequently with steam generators. And a  
5 number of them have been moved from the Northeast. They  
6 just recently moved some out west.

7 Sure, it is possible that after they remove  
8 this from the vessel, or from the containment, that  
9 Barnwell could close, if that is indeed where they were  
10 going to plan to ship it.

11 But the licensee would be required to  
12 safeguard this reactor vessel such that, you know, it  
13 would not be affected by high water or any other natural -  
14 -

15 MR. FULLER: But wouldn't it make sense to get  
16 the whole thing planned before you started?

17 MR. MASNIK: Well, certainly, certainly. And  
18 yes, that is --

19 MR. FULLER: So are you going to make sure  
20 that they have the whole thing planned before they start?

21 MR. MASNIK: Before they go, we do a review  
22 from the beginning to the end.

23 MR. FULLER: Okay. So before they have  
24 permission, I thought from what was said earlier, they've  
25 submitted their plan more than 90 days ago. They have a

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1 tech spec change coming up.

2 The tech spec change does not talk about where  
3 the reactor vessel is going to go. If you folks approve  
4 that tech spec change, the scenario I presented is  
5 possible.

6 Does that mean that you are going to wait to  
7 approve the tech spec change until they've provided the  
8 transportation plan?

9 MR. MASNIK: No. You have to understand that  
10 the tech spec change allows them to start the process.

11 MR. FULLER: Right.

12 MR. MASNIK: Moving a package like that  
13 requires an additional review. And that additional review  
14 will take some time, it is an additional submittal to the  
15 NRC, and it is somewhat independent from the license  
16 amendment process.

17 It is a certification process to certify the  
18 reactor vessel as a shipping container, basically.

19 MR. FULLER: Okay, so --

20 MR. MASNIK: So it is another process.

21 MR. FULLER: So basically you are saying, as  
22 far as the NRC is concerned, they are assuming they get  
23 their tech spec change for other reasons, not related to  
24 transportation, you will let them take the reactor vessel  
25 and the other internals out of the containment vessel,

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1 stick them out in the flood plain, and wait for whenever  
2 they decide to get together a transportation and disposal  
3 plan, and you will deal with approving that at that later  
4 date?

5 MR. MASNIK: No, I'm not saying that.

6 MR. FULLER: No? Okay. I'm confused.

7 MR. MASNIK: The approval process -- the  
8 approval process for the shipping container occurs prior  
9 to the movement of this -- of this -- the vessel.

10 MR. FULLER: Prior to movement off-site.

11 MR. MASNIK: No -- well, yes. It can't move  
12 off-site.

13 MR. FULLER: Right.

14 MR. MASNIK: But normally what happens is that  
15 they are not going to move that vessel until they get the  
16 approval from the NRC as a package.

17 MR. FULLER: Is that a requirement that you  
18 have, or is that just up to the whim of GPU Nuclear?

19 MR. MASNIK: Well, it is -- there are a lot of  
20 interplays, here. I mean, we wouldn't allow them to  
21 remove the vessel from the reactor building unless it was  
22 in a condition that we could assure that it could be  
23 safely stored on the site. So, I mean it wouldn't happen  
24 that way.

25 MR. FULLER: Well, they've spoken of, you

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1 know, taking it and going off quickly, and --

2 MR. ADAMS: Mr. Fuller, I think we discussed  
3 these 50.59 safety reviews that have to be done. I think  
4 it would be very difficult to do this review successfully  
5 if the end point of the review was that this is going to  
6 sit outside indefinitely.

7 I'm not saying it is an impossibility, but if  
8 it is going to end up not moving off the site, the  
9 licensee has to show that they can pass the 50.59 test,  
10 that there is no unreviewed safety question here.

11 MR. FULLER: But that is after the fact?

12 MR. ADAMS: No, they have to do this -- this  
13 50.59 has to be done before the action is taken.

14 MR. FULLER: But you folks don't review it  
15 until later, so they might have already gone through and  
16 done this, because they thought it was okay, and then you  
17 come back and say --

18 MR. ADAMS: Well, no, that is why we talk to  
19 them from week to week. That 50.59 review, we would,  
20 through the inspection process, look at it.

21 MR. THONUS: For the convenience of the Court  
22 Reporter, I'm Lee Thonus.

23 They can't just set a package of radioactive  
24 material outside someplace, regardless of whether they are  
25 going to ship it or not, radioactive material has to be

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1 controlled in a proper radioactive material storage area.  
2 That is part of the code of Federal Regulations.

3 They have to have it someplace that is locked  
4 and controlled. They can't just set it on the ground  
5 outside someplace.

6 MR. FULLER: That seems to be all they said in  
7 the plan that they had. There may be more detail that  
8 they haven't made public in the plan, but they just speak  
9 of taking it out with a crane, and sticking it in a lay-  
10 down area. That is what the plan says.

11 MR. ADAMS: The PSDAR, it requires a schedule  
12 of major activities, it doesn't require the details.

13 The details would have to be filled in as part  
14 of the licensee performing the safety review required by  
15 50.59. At that point, that is where all the details would  
16 be filled in by the licensee, and the licensee has to  
17 determine that they don't have an unreviewed safety  
18 question, or that it doesn't create a need for a tech spec  
19 amendment.

20 If they can't pass those tests, then it can't  
21 be done using 50.59, and it has to -- it becomes a  
22 licensing issue.

23 MR. FULLER: Okay, but that is up to them to  
24 make that determination under the current rules. You  
25 would review that later, but initially it is up to them?

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1 MR. ADAMS: It is their responsibility to do  
2 the 50.59 review if they want to take the action. No  
3 50.59 review, no action. Not only do they have to do the  
4 review, but you have to successfully -- you have to come  
5 to a successful conclusion.

6 MR. FULLER: Another question. What are the  
7 decommissioning standards that they are going to actually  
8 be using? I know there is a current guide that is decades  
9 old, and there are some proposed regulations that unless  
10 they've been approved recently --

11 MR. ADAMS: Do you mean release criteria?

12 MR. FULLER: Yes.

13 MR. ADAMS: As we speak right now, the release  
14 criteria that are in place right now, are the ones that  
15 you refer to. Reg guide 1.86, which discusses levels of  
16 contamination on components, and there is a 5 micro R per  
17 hour above background, three foot from surface of  
18 interest.

19 Those are the current requirements, today. As  
20 you mentioned, there is a proposed rule making that may  
21 change that. They will have to follow, at the time of  
22 termination, they will have to follow whatever regulations  
23 are in effect at that point in time.

24 MR. FULLER: Now, as I understand it, the new  
25 regulations are somewhat more strict than the current

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1 ones, at least as currently thought. And GPU has, in  
2 their plan, said they are going to follow the new  
3 regulations.

4 Are you saying, do they have to do what they  
5 said in the plan, or can they do whatever happens to be  
6 the law at the time they take out a particular package?

7 MR. ADAMS: Take a particular package where?

8 MR. FULLER: Well, off-site, or release the  
9 site.

10 MR. ADAMS: Well, release of site, license  
11 termination, at the time they apply for -- if we terminate  
12 the license on July 15th, 2000, that is the regulations  
13 they are going to have to meet at that time, at the time  
14 we terminate the license. Am I right, Gene?

15 MR. HOLLER: That is correct.

16 MR. FULLER: So even if the NRC still hasn't  
17 changed the regulations, the fact that GPU in their plan  
18 says they are going to meet the new standards, if those  
19 aren't in effect, you would not require them to meet what  
20 they said in their plan?

21 MR. ADAMS: GPU has to meet the regulations  
22 that are in effect at the time of license termination.  
23 You are talking about the decommissioning plan. You have  
24 to realize that now the decommissioning plan has turned  
25 into a PSDAR.

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1 MR. FULLER: Right.

2 MR. ADAMS: Which is a different type of  
3 document.

4 MR. FULLER: Right, and I'm trying to find  
5 out, you know, whether that actually controls anything, or  
6 it is just something on a piece of paper. I mean, they've  
7 made various commitments in that plan, and I'd like to  
8 know whether those are things that you and the NRC,  
9 assuming that you've decided that it is acceptable, are  
10 going to hold them to it.

11 MR. HOLLER: The licensee submitted its  
12 decommissioning plan which is now the PSDAR, then under  
13 the current decommissioning rules, the staff of the NRC  
14 reviewed it to see if it comported with those rules.

15 Mr. Fuller has raised the question, what if  
16 the licensee has indicated that it will do something above  
17 what the regulations may require? May they change those  
18 in the future?

19 Part of the new rule that addresses the PSDAR,  
20 the post shutdown decommissioning activities report,  
21 requires the licensee to inform the NRC, which again would  
22 be a public document that will be available on the docket,  
23 that they intend to change their PSDAR, their post  
24 shutdown decommissioning activities report.

25 So in sum, my answer to you is, if the

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1 licensee has submitted commitments, or what they plan to  
2 do, they meet or exceed the current regulations are,  
3 changes of those would have to go to the NRC as part of  
4 the process, and then dealt with accordingly.

5 MR. FULLER: Okay. But as I understand what  
6 you are saying, if your rules haven't changed, you  
7 certainly would not be able to -- as an example, say the  
8 current rule is you go to one, and the new rule, they've  
9 committed to go to half, and the rule that it is one  
10 doesn't change in the next five years, and they come in  
11 and say, well, we want to go to one rather than the half  
12 that we said that we would go to, you don't have any  
13 reason to say no to them, and therefore they would be able  
14 to use the less restrictive standard.

15 MR. HOLLER: Except, and perhaps Mr. Fuller, I  
16 think you've given us a good example of why the current  
17 rule takes the approach it does. We are talking about the  
18 termination of the license, how they would leave the site  
19 at termination.

20 If I may reiterate some of what Mr. Adams  
21 presented, the way the rule is set up now, when it comes  
22 to termination of the license, the licensee submits its  
23 survey plan, what it still requires to be dismantled and  
24 several other things.

25 That presents an opportunity, one, it is

1 presented to the public; two, there is an opportunity for  
2 comment, and more importantly, before that termination  
3 plan can become effective, it is made effective by an  
4 amendment to the license. and so therefore, there would  
5 also be an opportunity for a hearing.

6 And so, in sum, I'm saying to you, situations  
7 such as you've described, where there was a change, and  
8 before that license can be terminated, there is an  
9 opportunity both for public comment, and to request a  
10 Hearing on the final termination plan by interested  
11 members of the public.

12 Have I addressed your question, Mr. Fuller?

13 MR. FULLER: I think so. Not with what I  
14 would like, but you've addressed it.

15 One specific question I had, in their  
16 responses to your questions when it was still a  
17 decommissioning plan, that they sent in in July, on page  
18 32 there was a very specific commitment by GPU that they  
19 would meet the 4 millirem per year EPA water limit, even  
20 though that wasn't in current regulations, no matter what.

21  
22 As I understand it, then, they really wouldn't  
23 be held to that at this point, unless the new standards go  
24 in?

25 MR. DRAGON: Both the EPA and the NRC

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1 regulate affluents. What you are talking about is a TEDE  
2 exposure, via the water pathway, only.

3 MR. FULLER: Right.

4 MR. DRAGOUN: Now, we have an understanding, a  
5 memorandum of understanding with the EPA, and that -- also  
6 for affluents, like if something was going to go out the  
7 stack, it has to meet the clean air act, all right?

8 We have an understanding with the EPA that we  
9 will enforce their regulations, but it is not an NRC  
10 regulation. Does that answer your question?

11 MR. FULLER: No, my question was whether they  
12 would be legally bound to that no matter what you and the  
13 EPA decide in the future.

14 MR. DRAGOUN: They have to meet the four  
15 millirem dose, TEDE dose by the water pathway. That is an  
16 EPA regulation. They don't have the option of not doing  
17 it.

18 MR. FULLER: Right. Currently, but that is  
19 also up for potential change, as I understand it. And my  
20 question is, whether what they've written in their plan,  
21 where they commit to something specific, if it is not  
22 required by law or regulation, are they going to have to  
23 follow their plan, or are they going to be allowed to do  
24 whatever the regulations allow?

25 MR. DRAGOUN: They put this in their plan, but

1 it is a law, it is the law of the land.

2 MR. FULLER: Currently, but it is also up for  
3 potential change.

4 MR. DRAGOUN: Well, that may be so, then that  
5 will change. They put it in their plan, but it exists as  
6 an EPA requirement, whether it is in their plan or not,  
7 and this also applies to every other facility undergoing  
8 decommissioning.

9 MR. FULLER: Did the NRC give prior written  
10 approval for the construction of the decommissioning  
11 building that was built out there this year, or last year?

12 MR. ADAMS: The decommissioning support  
13 facility?

14 MR. FULLER: Yes.

15 MR. ADAMS: Yes, that was approved by license  
16 amendment.

17 MR. FULLER: I think I should let someone else  
18 ask questions if they want to. I do have some others.

19 MR. ADAMS: Mr. Fuller, during the break  
20 please come talk to me.

21 MR. TYDEMAN: My name is Jim Tydeman, and I  
22 live about a half mile from here.

23 To follow up on the transportation question,  
24 there is talk that after -- anything radioactive that is  
25 going to be shipped off-site, after it leaves the site it

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1 is going to be primarily the responsibility of the  
2 Department of Transportation; their regulations will  
3 basically --

4 MR. DRAGOUN: I guess I'm sorry if I didn't  
5 make myself clear.

6 The NRC has regulations for preparing the  
7 shipment.

8 MR. TYDEMAN: Right, I understand.

9 MR. DRAGOUN: To go on the road. Once it is  
10 on the road, Department of Transportation regulations kick  
11 in. Once it gets to the destination, though, the NRC  
12 rules kick in again.

13 It is a transfer of material from one licensee  
14 to another licensee, so the NRC is involved at both ends  
15 of the process, but not in the middle.

16 MR. TYDEMAN: Okay. My question is, we are  
17 talking the U.S. Department of Transportation, Penn DOT,  
18 or both? As far as Department of Transportation.

19 MR. DRAGOUN: The Federal DOT, Department of  
20 Transportation, yes, 49 CFR.

21 MR. TYDEMAN: Is the Pennsylvania Department  
22 of Transportation also formally involved in this?

23 MR. ADAMS: We don't know, sorry.

24 MR. TYDEMAN: I have a number of questions  
25 regarding the decommissioning plan that I would like to

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1 submit in writing, and I want to make sure -- there is a  
2 90 day period in which, or a 30 day period, in which I can  
3 make comments or ask questions of the decommissioning  
4 plan.

5 When does that kick in, when does that  
6 actually start, and to whom should I address those  
7 questions?

8 MR. ADAMS: The Federal Register Notice had  
9 the formal address for submitting comments or questions.  
10 I don't believe the Federal Register Notice had a specific  
11 date we would accept comments until, but we are going to  
12 be doing, you know, looking at the PSDAR to bring this to  
13 closure.

14 So it was noticed in the middle of December,  
15 so it has been about a month, now. So I'd say probably  
16 anything I get within the next 30 days, I can sit down and  
17 think about.

18 MR. TYDEMAN: I have one question I'd like to  
19 ask right now about the safety analysis report. In that,  
20 GPU states that they didn't consider that it was likely  
21 for the vessel to rupture as a result of a material  
22 handling accident, so there was no consideration given to  
23 that, what the potential for an accident like that would  
24 be.

25 At this point in time, can you say whether you

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1 would concur with that?

2 MR. ADAMS: I can't. Our review of that,  
3 well, what we are reviewing is the technical specification  
4 application, and in that it refers to the safety analysis  
5 done on the SAR, that is under review at the moment, and I  
6 can't tell you what conclusions we've reached at this  
7 point. It is still -- anything we are doing is still  
8 preliminary.

9 MR. TYDEMAN: Okay. Would that be something  
10 that you will review, though?

11 MR. ADAMS: We look at all -- you know, we  
12 look at all aspects of the safety analysis that is  
13 submitted with the support, the technical specification  
14 changes.

15 MR. TYDEMAN: Okay, that is it.

16 MR. DRAGOUN: Don't go away. I want to make  
17 an amendment to your original question about the  
18 transportation.

19 Once GPU ships some material and goes on the  
20 road, although the DOT regulations kick in as soon as it  
21 gets on a public road, the licensee, GPU, does not lose  
22 responsibility for that material, okay?

23 MR. TYDEMAN: We hope they don't lose it.

24 MR. DRAGOUN: Pardon?

25 MR. TYDEMAN: We hope they don't lose it.

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1 MR. DRAGON: Yes, for instance, if it gets  
2 lost, if it doesn't arrive at its destination, if there is  
3 an accident on the road, the truck goes off the road in  
4 bad weather or something like that, it is still GPU's  
5 responsibility, okay?

6 So I didn't want to give the impression that  
7 there is -- that once it passes the doorway, you know,  
8 they are not accountable anymore, that is not true.

9 The rules, though, that apply to that  
10 situation for over the road transportation, come from  
11 DOT.

12 MR. TYDEMAN: Okay.

13 MS. ICKES: Before we take our scheduled  
14 break, we have another speaker who has registered. Mr.  
15 Baker, do you have questions at this time?

16 MR. BAKER: After the break or now?

17 MS. ICKES: We will do your questions now,  
18 because you are registered. This will be the final  
19 question before the break, there will be opportunity,  
20 again, after Mr. Kuehn from GPU Nuclear.

21 MR. BAKER: First I want to thank Perry Carmel  
22 and Joe --

23 MS. ICKES: Would you please identify  
24 yourself?

25 MR. BAKER: Excuse me, Gene Baker, we have

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1 Bedford County carpenters on the project which pay their  
2 taxes, and quite frankly, in Liberty Township and Pacific,  
3 we are Bedford County.

4 We have like 40 carpenters in this county, and  
5 I would think that the -- Ms. Ickes and Dick Rice and  
6 Ebersol, I hope you people back us on stressing the people  
7 here on local people, you know, they are paying their  
8 taxes in their cars and their gas and the restaurants and  
9 the whole thing.

10 And my question, then, is I understand that  
11 you people plan on bringing some of your people from the  
12 other plants to do a lot of this work, and --

13 MR. ADAMS: That question is probably best to  
14 be held after the GPU --

15 MR. BAKER: After the other people talk?

16 MR. ADAMS: Yes.

17 MR. HOLLER: I think Mr. Adams is telling you,  
18 the question is best addressed to the GPU Nuclear  
19 representatives, the licensees on those types of plans,  
20 and who they plan to --

21 MR. ADAMS: You are not asking the NRC a  
22 question, are you?

23 MR. BAKER: No.

24 MR. ADAMS: Okay.

25 MR. BAKER: Do I need to talk later?

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1 MR. ADAMS: Yes. And if you have a question  
2 for the licensee, after the licensee gives their  
3 presentation.

4 MR. BAKER: Okay. Mine is strictly a labor  
5 issue, a local labor issue. And, by the way, I did --  
6 when I placed four carpenters in there, there was two  
7 democrats and two republicans.

8 (General laughter.)

9 MS. ICKES: We are very pleased to learn of  
10 your bipartisan operation.

11 At this time we will take a break for 15  
12 minutes. I would, again, encourage you to interact with  
13 the people representing the NRC, and I believe that GPU  
14 nuclear is pretty much gathered over there.

15 So let's have some healthy interaction -- some  
16 more GPU people are here. Again, if you would care to  
17 make public comments, I would ask you to sign the registry  
18 in the back of the room.

19 Also with us is Mr. Jim Keifer who is  
20 representing our State Representative Dick Hess. Jim,  
21 would you please stand up?

22 So if there are any concern you would like to  
23 relay to Representative Hess, please see Jim Keiffer.

24 //

25 //

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1 (Whereupon, the above-entitled matter went off  
2 the record at 8:20 p.m. and went back on the  
3 record at 8:35 p.m.)

4 MS. ICKES: Can I have your attention, please?  
5 Would everyone take their seats.

6 I'm sticking to my role as the cracker of the  
7 whip, I'm pleased to have this session reconvened.  
8 Checking your agenda you will note that next on the  
9 schedule we will have Gerald Kuehn from GPU Nuclear.

10 After we have finished with that presentation  
11 around 9 o'clock, there will be time for questions and  
12 public comments, plus remarks, and we hope to wrap this up  
13 around 10 o'clock.

14 I'm hearing a lot of comments about the  
15 uneasiness that is felt for the transportation of these  
16 nuclear products.

17 At this time I hear from GPU nuclear,  
18 discussion for next month. Would it be possible to have  
19 someone from the Department of Transportation come, or  
20 even for the April -- you know, for the March or April.

21 I think that we need to schedule the  
22 appropriate people. Okay, that will be addressed.

23 So at this time Mr. Kuehn will take the  
24 podium.

25 MR. KUEHN: Good evening. As Norma said, I'm

1 Gerald Kuehn. I'm the vice president of the Saxton  
2 Nuclear Experimental Corporation, which we finally called  
3 SNEC. And more importantly, I'm program director for GPU  
4 nuclear for the decommissioning project at Saxton  
5 facility, which we call the SNEC facility, so I'll try to  
6 refer to it as that, as we go along.

7 With me tonight is Mr. Art <sup>Rome</sup> ~~ff~~ he is vice  
8 president and director of nuclear safety and technical  
9 services for GPU nuclear.

10 GPU nuclear is responsible to SNEC corporation  
11 for the decommissioning of the facility. So the staff we  
12 use, the expertise we use, comes from GPU nuclear. A  
13 subsidiary of GPU, as I think most of you know.

14 Prior to my assignment to the SNEC facility, I  
15 was director of radiological and environmental controls,  
16 and occupational safety for GPU, which included TMI,  
17 Oyster Creek Station in New Jersey, and Headquarters in  
18 Parseipiti.

19 Prior to that three year assignment, I was  
20 operation director, or senior site director for the TMI II  
21 dismantlement, recovery from the accident.

22 I mention those two experiences of mine,  
23 because I think they are very important, and they  
24 demonstrate that GPU nuclear has applied resources to the  
25 SNEC facility project, that lend themselves well to what

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1 we have ahead of us, which is the safe decommissioning,  
2 safe for the public, safe for the workers of the SNEC  
3 facility.

4 Along with my transfer to this project,  
5 several members of my staff, in fact 80 percent of my  
6 current Saxton staff have experienced directly in  
7 supervising and managing the recovery effort at TMI II.

8 As I think we all know, that was a challenging  
9 project, it was done safely, and we can directly apply  
10 what we learned there to what we are about to do at  
11 Saxton, keeping safety first and foremost.

12 I'm going to talk about dismantling the  
13 containment vessel, we will get a look with some of the  
14 overheads we have as to what that containment vessel looks  
15 like and what it is.

16 And I intend to spend about 20 to 30 minutes  
17 going through the particulars of the decommissioning, and  
18 I'll break down what we are going to talk about as we go  
19 through that.

20 After my presentation, if there are any  
21 questions as there were with the NRC, I'd be glad to  
22 answer those. If I'm unable to answer any of the  
23 questions, our communications department will record  
24 those, and we will get back to you either through the  
25 Citizen's Task Force, which I'll talk about, or directly,

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1 if that is appropriate.

2 What we are going to cover as we go through my  
3 presentation is the history of the Saxton facility, when  
4 it operated, why we decided to decommission now. I know  
5 that is one of the questions we had earlier of the NRC,  
6 who decided to decommission, and why did they decide to.  
7 I'll talk a bit about that.

8 Our recent dismantlement activities, which  
9 have been allowed to be done by NRC, with NRC's  
10 permission, prior to the decommissioning itself. The  
11 schedule and costs as we see it now, which has been  
12 submitted to the NRC.

13 In other words, what we intend to do and what  
14 time frame, the cost of the project as we see it  
15 projected. Major aspects of decommissioning, including  
16 that reactor vessel that we talked about, that some  
17 questions were asked about, and I'll talk some more about  
18 that, and a bit about the transportation of that, as we  
19 see it.

20 Safety oversight, which is a key ingredient,  
21 the way we have the program put together, so that we are  
22 assured that we have independent oversight, and in-company  
23 oversight, through the process.

24 And finally we will talk about community  
25 involvement. Community involvement today is a very

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1 important aspect of what we've done so far, and will be  
2 throughout the project until completion, until we reach  
3 what we call green field, or pre-release of the site.

4 And that is accomplished through the Citizen's  
5 Task Force, which has been put into place in the Saxton  
6 area.

7 Early history of the plant. The plant  
8 operated from 1962 to 1972 for a ten year period. It  
9 produced electricity during that period, but was primarily  
10 a research and training reactor.

11 Some of the operators at TMI, in fact, had  
12 their initial training at the SNEC facility back in the  
13 '60 to '70 time frame. And foreign reactor operators were  
14 trained at the facility.

15 It was also a research reactor in that some  
16 new nuclear applications were first tried at the SNEC  
17 facility, and tried successfully.

18 That ten year period was twice as long as the  
19 facility was designed to operate, in fact it went twice as  
20 long as planned for, initially.

21 This first view we have the facility, a couple  
22 of pointers on what is there to look at. When we talk  
23 about the containment vessel and what is left to do on-  
24 site, we are talking about this dome-shaped structure.

25 To give you a feel for size, it is about 50

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1 feet in diameter, 50 feet above ground, and a similar  
2 shaped portion underground. So 50 feet underground, and  
3 again, 50 feet in diameter.

4 All of what we have to do, or the lion's share  
5 of what we have to do, is inside that containment. The  
6 reactor vessel is in there, the steam generator, all the  
7 major components, small components, piping and systems  
8 which we have to disposition as we decommission the site.

9 In the foreground, in operating days, you see  
10 the control and auxiliary building, and that contained the  
11 control room, much like the nuclear reactors, they have a  
12 control room. Laboratories, and other facilities, there.

13 In the background, here, the rad waste  
14 disposal facility, processing of rad waste occurred in  
15 that building, and there was a pipe connection between  
16 that and the reactor building and the control auxiliary  
17 room.

18 You can't see very clearly, but in this bottom  
19 left-hand corner is a piece of the old coal station, which  
20 existed alongside the SNEC facility, the nuclear reactor  
21 facility at the time.

22 Our steam unit, which produced in the SNEC  
23 facility, went to that coal plant, and we utilized one of  
24 their turbines and generators to produce electricity.

25 It was an eight megawatt plant, compared to

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1 the larger five, six, seven hundred megawatt plants that  
2 we see today, operating. It was very small, and yet it  
3 was able to supply about 8,000 to 10,000 people with  
4 electricity, when it produced electricity.

5 One of the things that is an advantage of the  
6 SNEC project, and the NRC pointed this out, is that we  
7 don't have any fuel assemblies on-site, either new or  
8 unused, or spent fuel assemblies.

9 The majority, by far, of the radioactivity  
10 associated with the nuclear facility resides in the spent  
11 fuel at that facility. And so facilities who are facing  
12 decommissioning have the problem of contending with the  
13 spent fuel, be it storing it in the spent fuel pool, or  
14 putting it into a dry fuel storage situation, both of  
15 which have to be approved by the NRC.

16 That fuel, as we said earlier, was shipped in  
17 the early '70s to the Savannah River Project, where it  
18 resides today, as far as I know. It has been transferred  
19 back to the government, so that we no longer have the  
20 responsibility for that fuel. That makes our job a lot  
21 easier.

22 We still have radiological and safety  
23 challenges, but the lion's share of the radioactivity is  
24 not something we need to be concerned about.

25 This is an example of a true fuel assembly

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1 that you see here -- that is obviously a new fuel  
2 assembly, or he wouldn't be standing that close to it.  
3 Since it is the majority of radioactivity after activated,  
4 and after it is used for fission, if you will.

5 That would have to be underwater for shielding  
6 during an operating period. So that is a new fuel  
7 assembly being loaded into the core.

8 Why decommission now? There are four primary  
9 reasons for why we've elected to decommission now. As you  
10 know, the plant shut down in 1972. There has been  
11 deterioration which has been occurring since 1972, and  
12 although we've maintained the facility, we haven't worked  
13 our pumps or pipes, or painted structures, for the most  
14 part.

15 So as you can see, in this picture, there is  
16 some rust in various areas of the plant. There is  
17 concrete which has cracked over the years.

18 The second, and maybe the most important  
19 reason, is that this site at Saxton was not designed to be  
20 a rad waste repository. It is not licensed to hold rad  
21 waste for any period of time. It is in the 100 year flood  
22 plain, and we think it is time to get the material, the  
23 radioactive material, off the site, and return that site  
24 to free release.

25 The condition of the building and the

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1 components in the building is not getting any better, it  
2 is getting worse. The technology exists today, point  
3 number 3, to do this job, as the NRC has said, several  
4 decommissionings have been successfully completed, there  
5 are others that are underway now.

6 And finally, the fourth, we have the  
7 experienced people to do the work. People who have done  
8 dismantling activities at Saxton, in the buildings which  
9 were contaminated, decontaminated, and dismantled those  
10 buildings.

11 People who have the experience of TMI II as I  
12 mentioned earlier. If we wait, we may lose that  
13 experience. There are even people inside GPU Nuclear  
14 today who worked at Saxton, who trained at Saxton, as I  
15 said, so that experience is available for us.

16 I'm not getting any younger, I could be gone  
17 five years from now, probably will be, by retirement or  
18 whatever.

19 So let's use the experience we have, and do it  
20 now, when we are able and ready to do it safely, and  
21 efficiently.

22 Recent dismantlement activities. In 1986 to  
23 1990, we completed decontamination of some major  
24 structures on site. As I pointed out in the earlier  
25 pictures, in the foreground here is the rad waste disposal

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1 facility, the pipe tunnel I talked about going between  
2 there and containment, and the control and auxiliary  
3 building that you can see in the left side of the  
4 containment, were all decontaminated and dismantled,  
5 surveyed and through acceptance by the NRC, we were  
6 allowed to dismantle those facilities, including the pipe  
7 tunnel that runs between there, and some other structures  
8 which aren't shown in this picture.

9 That was good experience for us, we learned  
10 from that experience. The surveys had to be redone at one  
11 point, because we were on a learning process then. That  
12 was done safely without occupational injury, and with  
13 radiation exposures to the workers that were well within  
14 what we had projected.

15 So that is good experience. Those facilities  
16 are all gone, and what we have left to contend with now,  
17 as I said, is the containment vessel, which you see in  
18 this shot. That is kind of a before and after, if you  
19 will.

20 You can see that we have graded and seeded the  
21 area after having removed those support structures. That  
22 is what the site will look like when we are finally done  
23 in removing that containment vessel.

24 One of the other things that was done, in 1994  
25 we shipped contaminated soil from the site. As we

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1 sampled, surveyed, and looked at the areas involved in the  
2 rad waste disposal facility, a water storage tank, which  
3 was a large tank with radioactive water in it that had  
4 some leakage problems during operation, we found ground  
5 that was contaminated slightly above background, in most  
6 cases.

7 That soil had to be removed, we don't have a  
8 ready way to clean soil, so it was shipped to Utah to a  
9 disposal facility, in the bags that you see. In total  
10 there were some 56,000 cubic feet of soil shipped.

11 As I recall, and Bob correct me if I'm wrong,  
12 there were 100 truckloads of that soil removed from site.  
13 So that soil is gone, was shipped successfully, and is a  
14 big part of what we had to do in the yard area around the  
15 containment vessel.

16 There is still some soil involvement in and  
17 around the containment vessel itself, and we will have to  
18 contend with as we go on with the decommissioning.

19 But the majority of the site, other than that  
20 containment vessel and the adjacent area, is free released  
21 at this point.

22 In January of '96, as the NRC said, we  
23 submitted our decommissioning plan to the NRC. The new  
24 rule occurred after January of '96, which said that we  
25 needed a PSDAR, or post-shutdown decommissioning

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1 activities report.

2 That plan that we submitted became, upon our  
3 request and the NRC's approval, the PSDAR. What we have  
4 is, as Al Adams, submitted the PSDAR in the form of the  
5 decommissioning plan.

6 In January of '97, one of the things we were  
7 allowed to do in the interim, before now and approval of  
8 the decommissioning plan, was work on asbestos removal.  
9 These are preparations for decommissioning. Asbestos on  
10 piping in the plant was deteriorating, as many other  
11 things are inside containment.

12 For the workers to do their maintenance and  
13 surveillance, that asbestos was a hazard for them, so we  
14 wanted to get rid of the asbestos, we petitioned the NRC  
15 to be allowed to do that, and we were granted permission  
16 to remove the asbestos.

17 This month we finalized removal of the  
18 asbestos, and what is left to be done now is that we are  
19 putting up some vacuum cleaners and doors and filters,  
20 which were associated with that work. So that is the end  
21 of the asbestos inside containment.

22 It is good to have that out of the way, so  
23 that we can go into decommissioning without having to  
24 worry about asbestos exposure to the workers.

25 Scheduling costs. We intend, as the NRC has

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1 said, to begin decommissioning work this year, 1997,  
2 having completed preparations for that work, we are poised  
3 and ready to do the work, do the decommissioning.

4 We expect that that process will take us  
5 -- I get a break.

6 (Problems with the PA system.)

7 MR. KUEHN: Okay, we are back in business.  
8 Thank God for the break, I forgot something in my  
9 presentation.

10 (Problems with the PA system.)

11 MR. KUEHN: One of the things I forgot as I  
12 was going through the preparation, that we've been allowed  
13 to do, is the construction of what we call the  
14 decommissioning support building, or DSB.

15 That building was constructed to facilitate  
16 decommissioning.

17 (Mike was turned off.)

18 MR. KUEHN: Please note that it is not my  
19 fault if I go longer than 30 minutes.

20 The decommissioning support building that you  
21 see in the foreground was constructed by a local  
22 construction company, using local people. It's purpose is  
23 to accommodate material we bring out of the containment  
24 vessel as we decommission, pumps, piping, and things I  
25 will talk about in another diagram I'm going to show you,

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1 will be prepared and packaged for shipment in that  
2 building.

3 And so at the containment vessel, there will  
4 be an opening cut in the side of this containment vessel  
5 which leads into, with a monorail, that can handle  
6 equipment, to the decommission support building. We are  
7 not allowed to cut that hole in containment until we have  
8 permission to decommission the facility. So we built the  
9 building, we've attached the containment, but we haven't  
10 cut the hole into the containment vessel to accommodate  
11 material that is going to come out.

12 Okay, I said we were starting this year, we  
13 are anxious to go, we are ready to go. The NRC approval,  
14 we hope, is coming in the first quarter of the year.

15 When we get that permission we expect it to  
16 take until 2000 to complete the project. Our current  
17 schedule says that the majority of the work will be done  
18 by mid-1999, with final site restoration to occur between  
19 then and the time we are authorized to terminate the  
20 license, or the NRC terminates our license.

21 In the end of '99 we ought to be able to  
22 restore the site for free release, which is our intent.

23 The cost is estimated at 22 million dollars,  
24 in 1995 dollars, when that cost estimate was done. That  
25 dollar amount is an estimate, and it is only an estimate.

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1 I fully expect we may have to adjust that as we go along,  
2 and I say that specifically because of rad waste costs,  
3 which are uncertain at this time, at best.

4 And who knows in three years from now what  
5 they may be when we are ready to do some of the final  
6 shipments.

7 So that may require an adjustment which we  
8 will accommodate as necessary, but 22 million is the  
9 expected figure.

10 The major aspects of decommissioning. The  
11 containment building remains intact. Bob, if you could  
12 show that? During the decommissioning. I think this is a  
13 key issue that I'd like you to understand.

14 This containment vessel that we are required  
15 to maintain in containment integrity form, during  
16 decommissioning, is a three-quarter inch steel structure,  
17 which is continuous above ground and below ground, so it  
18 is kind of a lipstick tube, if you will, in giant size.  
19 Again, 50 by 50 above ground, 50 below ground.

20 That containment vessel will remain intact,  
21 and containment integrity will be required throughout  
22 decommissioning. We will have to cut some holes in it,  
23 which will be designed and engineered to not break  
24 containment integrity, because we will ensure air flow  
25 into the containment, and not out of it.

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1 But when we have done the final survey, and  
2 are allowed to do final survey, and after the public  
3 meeting that discusses our termination plan, we will then,  
4 and only then, take that containment vessel down.

5 So all work to remove, to cut piping, to get  
6 the reactor vessel out, will all be done inside that  
7 containment. And where we are capable of doing it,  
8 brought into the decommissioning support building that we  
9 showed.

10 Obviously, the reactor vessel is too big to do  
11 that with, but most small components and other components  
12 will be handled through that decommissioning support  
13 building.

14 On that diagram is a pretty simplistic view of  
15 other piping systems, paints, pumps and components, heat  
16 exchangers, these are small components which we will  
17 remove from containment, in their entirety, and dispose of  
18 as radioactive waste, in most cases.

19 That means we will take them up into that  
20 tunnel that we created between the containment vessel and  
21 the decommissioning support building, by monorail into  
22 that building, and they will be packaged and prepared for  
23 shipment, and then out that decommissioning support  
24 building, and on to a truck for disposal.

25 The larger components, which are the reactor

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1 vessel that you see depicted here, the steam generator  
2 here, and the pressurizer, are bigger challenges, obvious,  
3 just because of their size.

4 The reactor vessel, for example, will be some  
5 100 tons with all its support equipment when we ship it.

6 And as the NRC has indicated, we will load  
7 that vessel, inject into that vessel a cellular-like  
8 concrete, to immobilize it. Those kinds of projects are  
9 projects that will require a lot of oversight, overview,  
10 and NRC advisement, as we go, so that we understand what  
11 we are about to do, and review our work process for doing  
12 that.

13 The citizen's task force, which I referred to  
14 earlier, and will talk a little bit more about, is our  
15 connection with our citizens of Saxton, so that they know  
16 what we are about to do, and are advised ahead of time so  
17 they can talk to us, ask questions of us, and we think  
18 that has been, to date, and will continue to be an  
19 important aspect of our interface with the community  
20 during decommissioning.

21 And certainly that reactor vessel removal is a  
22 key issue. For example, in our preliminary plans for  
23 removal of that vessel, intend to cut a hole in the top  
24 containment, to get a large crane from off-site, with a  
25 vendor who is familiar with this kind of work, and has

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1 done this kind of large component removal, lift that  
2 vessel through the ceiling of that containment vessel, and  
3 out onto a preparation area for preparation for shipping.

4 None of that, and maybe this will help to  
5 answer one of the questions that has been asked so far,  
6 will be done until we have designed the program to prepare  
7 that vessel, to remove that vessel from containment, to  
8 prepare it for shipment, to certify it as a shipping  
9 package, to obtain the proper equipment to ship it,  
10 trucking, all the permits required, the bridges, the  
11 roads, the things we have to worry about to get it on the  
12 road and shipped to disposal, will be in place, will be  
13 reviewed by the NRC and approved before we touch that  
14 vessel to remove it from the containment.

15 And there is a lot of work involved with these  
16 three components, as you can imagine. We have put out a  
17 bid specification recently to some ten companies who will  
18 bid doing that work for us.

19 Again, we at GPU Nuclear are responsible for  
20 that, and every other aspect of this decommissioning. But  
21 we will contract with somebody who has experience on large  
22 equipment removal, radioactive equipment removal, which  
23 involves the engineering required to prepare the package,  
24 the lifting of the package, the preparation of the truck  
25 and the transport to a safe burial site.

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1           As we see that site, today, it is probably  
2 Barnwell, South Carolina. We have been in contact with  
3 Barnwell, we've talked to them about this vessel, and they  
4 are anxious to bury the vessel for us and believe they can  
5 accommodate it.

6           Again, this is all preliminary, and we are  
7 waiting for the issuance of that bid specification, and  
8 suggestions back from companies on the bid list to say how  
9 they would do it, and we will pick one.

10           It is important that we get going with that,  
11 because as I said, that is a big piece of what we have to  
12 do in decommissioning.

13           The structures that you see depicted here in  
14 light grey are concrete, for the most part, and some  
15 reinforcing steel.

16           The activation which Mr. Adams talked about  
17 that occurs in a nuclear power plant has activated some of  
18 that concrete, so it has become radioactive.

19           So some portion of this concrete will need to  
20 be removed by methods called scabbling, for example, where  
21 you break the surface concrete up and collect that as  
22 radioactive waste, and then hopefully leave behind clean.

23  
24           And we will survey as we do that work to make  
25 sure that we get down to a clean layer of concrete so that

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1 we can leave that in place.

2 We don't intend to remove any more of the  
3 structure underground than we need to when we  
4 decommission. But if it is radioactive above our  
5 authorized release limits, then we will have to remove the  
6 material.

7 We talked about the final survey, or the NRC  
8 did, some. We will submit a plan which includes that  
9 survey, and there will be public meeting to accommodate  
10 questions regarding our final survey, and how we intend to  
11 terminate the license.

12 So there will be another opportunity, as Mr.  
13 Adams said, for the public to participate.

14 Oversight is another aspect of decommissioning  
15 that I want to touch on, before I close. We have, by way  
16 of independent oversight, certainly the Nuclear Regulatory  
17 Commission who can come and inspect any time, announced,  
18 unannounced, or otherwise, and have done and will do both,  
19 I'm sure, in the future.

20 Inside the company, we have two committees who  
21 oversee what my staff and I are doing during the  
22 decommissioning. One committee is the nuclear safety  
23 compliance committee, which is made up of outside  
24 individuals with fairly senior titles who oversee with  
25 representation on-site, occasionally, much like the NRC

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1 inspector would arrive, and report directly to the  
2 President of GPU Nuclear.

3           So my boss Art, for example, could get a  
4 report from the President of the company that said, you  
5 are not doing what you are supposed to be doing at Saxton,  
6 you let Kuehn do something he shouldn't have done, and Art  
7 can get in trouble, because that SNEC has the ability to  
8 go over Art's head, also.

9           The Chair of that Committee, is Admiral Trost  
10 who some of you may recognize as an ex-Chief of Naval  
11 Operations. So there are pretty heavy hitter people in  
12 that committee, and they aren't gentle about the way they  
13 hold our feet to the fire on the things that we need to  
14 do, and do safely at the SNEC facility.

15           The second committee is a rad safety  
16 committee, which is part of our general office review  
17 board. That committee was created, specifically, to  
18 oversee the Saxton decommissioning, as we do it.

19           There is expertise on that committee, both in  
20 company and out of company, including the director of  
21 environmental controls, the director of radiological  
22 controls, and others on that committee, who have specific  
23 expertise on areas that apply to the decommissioning.

24           So we, again, answer to that committee. Some  
25 members of our citizen's task force have had opportunity

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1 to go to a couple of those meetings, and I think if you  
2 ask them, they will tell you that it is a pretty up front  
3 tough questions, that we are asked, we the staff who are  
4 doing the decommissioning, and it is not a very gentle  
5 process to go through, for us.

6 But out the other end comes a more responsible  
7 project management than we had going in. So it is good  
8 criticism, and it is constructive, and it has been helpful  
9 to us, and will be throughout the project.

10 Community involvement is my last point. We  
11 have, and I don't know if Sylvia is still here, waving her  
12 hand, with triplets, I might add. Is it all right for me  
13 to say that, Sylvia? Too late. We are proud of her  
14 triplets.

15 Sylvia is our on-site communications  
16 representative. Sylvia is from the area, has interfaced  
17 with the citizens of the area. When back from leave, she  
18 will be full time, again, on-site in supporting the Saxton  
19 project, and has been a lot of help to us in interfacing  
20 with the community, and keeping you advised of what is  
21 going on, on-site.

22 We have a community newsletter which is coming  
23 out quarterly, right, Sylvia? Bi-monthly right now. And  
24 that, again, is an effort to keep the citizens informed of  
25 what is going on.

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1           The citizen's task force is a group which was  
2 put together, initially, with Sylvia's help but now is  
3 independent of GPU Nuclear, but meets monthly. And meets  
4 with the intent of learning about what we are doing on-  
5 site.

6           I, for example, am asked to present, at each  
7 meeting, current status, what we've done since the last  
8 meeting. Maybe more importantly, what we intend to do on  
9 future work, before the next meeting.

10          That task force has been a big help to us in  
11 listening to what the community has to say. I hope we've  
12 been responsive to them. We certainly intend to be, and  
13 will continue to be in the future.

14          But to listen to their questions and what the  
15 people are concerned about, is something that we will be  
16 receptive to, throughout the process. We'd like to see  
17 more members of the public come to those meetings. They  
18 are open to the public, not just to task force members.

19          A turnout like we have tonight would be great  
20 to see. We don't see many people behind the task force,  
21 usually, but we certainly encourage more people to come.

22          And as I said, the task force has also been a  
23 part of some of the meetings we have, in oversight of the  
24 project.

25          We also have an independent inspector provided

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1 by Penn State. Roger, are you still here? Yes, Roger  
2 Granlund is in the audience. Roger, again independent of  
3 what we are doing, and doesn't report to me, but in fact  
4 reports to the citizen's task force on surveys he does,  
5 sampling he does, oversight of our activities, our  
6 procedures, and has taken under his wing one of the  
7 citizens from the citizen's task force, Charlie who is  
8 here, I think, to try to educate the public some more  
9 about what does it mean to look at a nuclear facility, a  
10 nuclear operation, and what do you look for, and how you  
11 operate the instruments that you survey with, to tell how  
12 well they are doing out there.

13 So I think that education of the citizen's  
14 task force has helped, and I'm sure Roger appreciates the  
15 help, too, with his work load.

16 Roger's number, up on the screen. Please note  
17 that. He is free to answer questions at any time you  
18 call. If you get a message from Roger's phone, he will  
19 certainly get back to you and answer your questions.

20 In conclusion, I would just like to say that I  
21 think we have an experienced staff in place, which will  
22 serve us well to decommission the facility. We are ready  
23 to do it, we are technically capable to do it. We have  
24 enough layers of oversight in place to make sure that we  
25 dot the Is, cross the Ts, and don't forget the big

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1 picture, if you will, as we go forward.

2 And we have the citizens, and the citizen's  
3 task force also available to feed back to us the citizen's  
4 concerns, and for us to advise as we go forward, so that  
5 there aren't any surprises.

6 We are ready to do it, and we think now is the  
7 time to do it, and we appreciate your support in trying to  
8 get it done.

9 I'd be glad to take questions.

10 MR. BAKER: Gene Baker, again. I guess you  
11 are the guy I need to talk to. And I apologize for not  
12 mentioning Sylvia, she has been fantastic out there, too.

13 We had six carpenters on our project, we are  
14 down to two now. I'm hearing rumors that you people are  
15 going to be bringing people in from different plants to do  
16 a lot of this work.

17 That was one of my concerns, because the  
18 people I have are from Bedford County, and quite frankly,  
19 five of them from Liberty Township.

20 And Ms. Ickes and Mr. Ebersol, and Mr. Rice,  
21 they've always been helpful, we've had some city  
22 councilman here and things like that. So put the pressure  
23 on them to hire local people.

24 MR. KUEHN: The workers from other plants that  
25 Gene is referring to are GPU workers? I'm sorry, GPU

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1 nuclear workers, in particular.

2 As we look at the future of power production  
3 in GPU, it is obvious to us that we have to do things  
4 smarter, more efficiently, and that means probably with  
5 fewer people in the future.

6 And so bargaining unit people that we have  
7 associated with our plants at TMI and Oyster Creek, may  
8 well be downsized in the future, or deferred to other  
9 projects.

10 This project is a prime place for some people  
11 to come to, to stay employed by GPU. Some of them have  
12 20, 25, 30 years of experience or seniority with the  
13 company.

14 I met with Art and other vice presidents in  
15 headquarters to discuss this issue. And what we have  
16 concluded is that we think the best mix for the project,  
17 from now forward, is if we have both company people  
18 assuming they are willing to volunteer to come to Saxton  
19 to do the work, and local people out of the union hall  
20 that Gene is talking about.

21 So ideally, Gene, we intend to have a mix of  
22 company and bargaining unit people from the sites,  
23 basically, and hope to continue to use your carpenters and  
24 laborers and some others, as the numbers will allow us.

25 MR. BAKER: The second phase, so to speak, as

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1 far as Raytheon is there now, and the asbestos, you say  
2 those companies -- you have no idea what company has the  
3 next phase or whatever?

4 MR. KUEHN: Somebody correct me from the  
5 company if I'm wrong, but I believe Raytheon got our  
6 contract for supporting of TMI and Oyster Creek in the  
7 future, so that is a done deal.

8 So Raytheon would, again, be the contractor  
9 for that kind of support in the future. And I'd like to  
10 add, for Gene's benefit, I do appreciate the work we got  
11 out of the carpenters and laborers that did the asbestos  
12 work.

13 These were people who weren't familiar with  
14 working in a nuclear facility, went through our training  
15 for radiation workers, and did a fine job for us with  
16 asbestos removal. We appreciate their dedication and the  
17 good job they did for us.

18 MR. BAKER: Item that is way over head, I'll  
19 let smarter people take care of that. But I do appreciate  
20 the local involvement, and I hope you can keep that on a  
21 90/10 deal.

22 MR. KUEHN: Noted, thank you.

23 MR. BAKER: Thank you.

24 MR. KUEHN: Other questions?

25 MR. POWERS: My name is Rylan Powers. What

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1 time of year are they planning to remove this reactor?

2 MR. KUEHN: The reactor vessel itself, as I  
3 said, the removal has not been completely planned, yet,  
4 and it is more a timing issue than anything. How long it  
5 takes us to prepare the package which the NRC will review  
6 for approval to go ahead and ship, the package  
7 certification, the arrangements with the company that  
8 removes the vessel and loads it and provides the shipping  
9 to the burial site.

10 I don't know now what time of year that will  
11 be. We will be required, however, I can tell you by the  
12 NRC's review of our preparation of that shipment package,  
13 to meet levels of exposure of radiation associated with  
14 that shipment, that are safe for the public, including the  
15 kids in school, the kids on the street, and whoever else  
16 might be in the area when we do that shipment.

17 It is not something that typically we would  
18 try to adjust who is where when we ship. It will be safe  
19 for the city streets as it goes through.

20 MR. POWERS: But you don't have like a ball  
21 park figure, even?

22 MR. KUEHN: A ball park figure?

23 MR. POWERS: Yes.

24 MR. KUEHN: Well, if I give you one, he is  
25 going to pin me down. I don't want to do that. I would

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1 guess that probably near to the end of the year, '97, we  
2 would hope to get it done. But that is pretty aggressive,  
3 there is a lot to be done, a lot of certification and  
4 approval to be done between now and then.

5 MR. POWERS: What are they going to do about  
6 four to five hundred high school students, in school, less  
7 than a quarter of a mile away, and the one hundred to two  
8 hundred elementary kids in school, about three-fourths of  
9 a mile away?

10 What are they going to do about all the kids  
11 in school, are we going to have like a day off, or --

12 MR. KUEHN: What I'm saying to you, Rylan, is  
13 that if we are allowed to go forward with the shipment,  
14 not if, but when we are allowed to go forward, where those  
15 kids are won't make any difference, because the NRC will  
16 not allow us to move one wheel off-site with that  
17 shipment, until the radiation levels are such that they  
18 are safe for the public, as simple as that, it won't go  
19 anywhere.

20 MR. POWERS: And you said that the reactor the  
21 trailer that it is on, the cement and everything is going  
22 to weigh about 100 tons?

23 MR. KUEHN: Yes.

24 MR. POWERS: Well, there are two bridges, if  
25 you go up around there is a bridge, if you go straight out

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1 there is a bridge. The bottom bridge, the weight limit is  
2 two tons, and the other bridge it is four tons.

3 How are they going to move something across a  
4 bridge that --

5 MR. KUEHN: Excellent question. That is a  
6 good one. Saxton is going to build us a new bridge,  
7 didn't you know that?

8 (General laughter.)

9 MR. KUEHN: Part of the certification for that  
10 shipment will require us to --

11 MR. POWERS: You are going to get yelled at.

12 (General laughter.)

13 MR. KUEHN: Excuse me. I'd better say that on  
14 the microphone. Part of the certification will require us  
15 to evaluate the roadways, the bridges, the overpasses, the  
16 little dinky bridge right outside of Saxton that is right  
17 adjacent to the site property, obviously won't carry that.

18  
19 We will have to bridge that. Not we, but a  
20 construction company that we hire as part of this large  
21 component removal, will have to bridge that bridge, if you  
22 will, with a structure that will support that weight.

23 MR. POWERS: If that thing would happen to  
24 fall off, the reactor, let's hope not. But how many  
25 millirems of radiation will be released per minute, maybe?

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1 MR. KUEHN: That package will be required to  
2 be shielded so, again, that it meets the transportation  
3 requirements, and the NRC's requirements for us to ship it  
4 as a package. If that fell off the truck, for example,  
5 remember that that reactor vessel was designed to hold  
6 operating pressure in an operating nuclear reactor, which  
7 is thousands of pounds of pressure.

8 It has five-inch thick walls of solid steel.  
9 So if it rolled off, it would roll off, and I doubt -- I'm  
10 not an engineer by degree, but I doubt if it would crack  
11 or break open.

12 If it did, I take you back to something Mr.  
13 Adams said. That reactor vessel radioactivity content is  
14 because of activation. It is the atoms inside that vessel  
15 that are radioactive. They are not going anywhere if it  
16 breaks.

17 They don't fly out into the air and take off  
18 for the grade school or the high school, it is not what  
19 they do. They stay right there on the ground, we would  
20 control that area, rope it off, and then disposition the  
21 vessel if it had fallen off.

22 That kind of leads me into another piece that  
23 I'd like to address, and that is responsibility for that  
24 shipment off-site. We own that vessel, we own every  
25 package that we ship off-site, but when it leaves the

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1 site, we are no longer, we GPU Nuclear, no longer  
2 responsible for it.

3 The Department of Transportation regulations  
4 must be met, but the State of Pennsylvania is responsible  
5 for responding to any incident involving that shipment,  
6 between here and the time it reaches this burial site.

7 That doesn't mean the state wouldn't pick the  
8 phone up and say, GPU Nuclear we want your health physics  
9 technicians to help us with this, you are closer, please  
10 respond, and I'm sure the company would do that.

11 But the ultimate responsibility for emergency  
12 response, for the roadways chosen for the path to the  
13 burial site, are with the state of Pennsylvania, as they  
14 are in every other state or Commonwealth in the nation.  
15 This isn't unique to Pennsylvania. It is the way rad  
16 waste is handled in this country.

17 MR. POWERS: Well, if you rope it off, that is  
18 not going to -- you can't rope off radiation and tell it  
19 where it can't go.

20 MR. KUEHN: I can't rope off radiation?

21 MR. POWERS: I hope not.

22 MR. KUEHN: I have three things going for me  
23 with radiation, time, distance and shielding. If I stay  
24 away from it in time, if I spend most of the time at home  
25 and not near that vessel, that is going to reduce my

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1 exposure, right?

2 Distance, the further away I can stay, the  
3 better. Radiation drops off very rapidly with distance,  
4 and I'm talking 10s of feet, 100s of feet. So we would  
5 rope it off to a safe level, where it wouldn't be an  
6 exposure problem to anybody, because nobody could get near  
7 it.

8 Shielding, it will already be shielded, as I  
9 said, to NRC's specifications for shipment.

10 MR. POWERS: Well, how is it going to affect  
11 about a quarter of a mile where the high school is? Will  
12 we be evacuated, or --

13 MR. KUEHN: I'd have to do some fancy  
14 calculations, Rylan, and I'd ask the rad engineers to do  
15 that, to say what would a dose rate be at a quarter of a  
16 mile. It depends on what the dose rate is on contact of  
17 that vessel.

18 But we certainly would look at that before we  
19 ever ship it, we'll know what the dose, the millirem per  
20 hour that you were talking about is, before we ship it.

21 MR. POWERS: Thanks for your time, that is  
22 about it.

23 MR. KUEHN: You are welcome, thanks for the  
24 question. Any other questions?

25 MR. NOVAK: My name is Karl Novak. You said

1 something about it costing 22 million dollars. Is that  
2 based on what they are presently charging at Barnwell for  
3 disposition of this type of material?

4 MR. KUEHN: No, that is based on what they  
5 were charging in 1995. Today what they are charging is  
6 being discussed. The Northeast alliance, for example,  
7 that is a lot of utilities going together to get the best  
8 rad waste disposal fees that we can get, is working with  
9 the various waste repositories to try to figure out what  
10 the dollar costs are going to be.

11 We just don't know at this time. So as we are  
12 prepared to ship, and for example those asbestos packages  
13 that we have ready to ship, we are bartering with the  
14 waste disposal facilities for how much we can do it for.

15 So it is kind of a floating number, at this  
16 point. And, obviously, of that 22 million, waste disposal  
17 is a real big chunk, and a big variable at this point.

18 MR. NOVAK: I well understand that. The thing  
19 that I want to know is who is paying for this? Are the  
20 stockholders paying for it, are the bondholders paying for  
21 it, or are the users of electricity paying for it?

22 MR. KUEHN: Karl, you are paying for it if you  
23 are a rate payer in Pennsylvania or New Jersey. Are you?

24 MR. NOVAK: Yes, I am. So essentially we are  
25 paying for this, but the bondholders and the stockholders,

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1 they are not chipping in at all, is that what you are  
2 saying?

3 MR. KUEHN: No, decommissioning funds have  
4 been and are being collected for the decommissioning of  
5 the SNEC facility. The owners of this facility were, in  
6 the past, at its inception, Pennsylvania Electric, Jersey  
7 Central, and Metropolitan Edison Companies, in varying  
8 percentages.

9 As a result of regulations, those companies  
10 are allowed, through rates, to collect from the customers  
11 at set rate by the PUC for the decommissioning process.

12 We have collected some monies, and we continue  
13 to collect now for that 22 million dollars.

14 MR. NOVAK: So essentially the bondholders and  
15 the stockholders are completely protected, they do not pay  
16 for any of this action, is that what you are saying?

17 MR. KUEHN: I'd have to ask the attorney how  
18 to answer that one. I don't know what protected means in  
19 the legal sense. But the funds to support decommissioning  
20 and to pay for the decommissioning are rate payer funds.

21 MR. NOVAK: Essentially, simply stated it  
22 means that they are protected from the standpoint that  
23 they do not have to chip in any of their expected return  
24 on their investment, because of this event?

25 MR. KUEHN: I'll defer to you on that Karl,

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1 I'm not a finance guy.

2 MR. NOVAK: Well, that is the point I was  
3 trying to make.

4 The containment vessel, which is a rather  
5 hefty piece of equipment, that is going into another  
6 container, or is that going --

7 MR. KUEHN: You are talking the reactor vessel  
8 itself?

9 MR. NOVAK: Yes.

10 MR. KUEHN: Not the big dome, but the small  
11 reactor vessel? That reactor vessel, incidentally, so  
12 that you have a feel for what we are talking about, is  
13 about as wide as the spread of my arms, and about three  
14 times as tall as I am, and it is a cylinder. So that is  
15 the size we are talking about, a lot of weight for the  
16 size.

17 That won't necessarily go into another  
18 container. However, it may be shielded by wrapping lead  
19 and attaching or welding materials to it to shield it. It  
20 may be in a can for contamination control purposes.

21 Those are some of the particulars which have  
22 not been decided yet in how we are going to prepare that  
23 for shipment, and how the NRC authorizes us to ship it.

24 MR. NOVAK: Now, whatever type of outside  
25 wrap, if you will, is going to be put together on this,

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1 will that be actually tested in reality, or will that be  
2 tested by computerization?

3 MR. KUEHN: Tested in reality in that we will  
4 take dose rates with survey meters before we put the  
5 shielding on and after to make sure that we've effected  
6 the dose reduction that we need in order to be able to  
7 ship it.

8 So we will take real time empirical data to  
9 determine that we've done the right thing.

10 MR. NOVAK: Okay. The other thing too is  
11 there is going to be a future time when you finally give  
12 up this site. Now, will this site be inhabitable by  
13 people at any time, or will it be something that will have  
14 to be roped off or fenced off for eternity?

15 MR. KUEHN: There will be no ropes, no fences,  
16 no nothing other than property boundaries if Penn Elec  
17 decides to hang on to the property, and doesn't want  
18 people near the switchyard, for example.

19 Radiologically there will be no restrictions,  
20 it will be a free release site, you could build a house  
21 there, you could inhabit that, you could put a garden out,  
22 eat the vegetables, drink the water out of a well, you  
23 will be able to live there, literally.

24 MR. NOVAK: So everything, basically, will go  
25 back to background, is that what you are saying?

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1 MR. KUEHN: No, I did not say everything will  
2 go back to background. I said that -- what I meant to say  
3 the levels at which we are going to be allowed to leave  
4 that site when the NRC finalizes and says, we agree that  
5 you've met the final survey criteria that we established  
6 for you, may be above background, but not at a level that  
7 exceeds what we are allowed to leave that site at, or  
8 exceeds what free release criteria are for that site.

9 MR. NOVAK: And what level is that at this  
10 time?

11 MR. KUEHN: Right now, we are waiting for  
12 final resolution from the NRC on what that final release  
13 criteria will be.

14 If you've read our submittal and our plan you  
15 will see that we submitted 15 millirem per year, as what  
16 we believe the number is today. If that number changes,  
17 we will go with whatever the regulations say at the time.

18 MR. NOVAK: Could that change in the future?

19 MR. KUEHN: You may want to ask the NRC that  
20 question. It could change in the future, I suppose. I  
21 don't want to speak for them.

22 MR. NOVAK: I know it is being discussed, time  
23 and time again, primarily between the Department of Energy  
24 and the NRC, it seems to be the ever ending football, if  
25 you will.

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1 MR. KUEHN: I think, Karl, it is important  
2 that we keep in mind, and the citizen's task force has  
3 heard me say this a couple of times. That 15 millirem, 20  
4 millirem, 20 millirem, those kinds of numbers are well  
5 within the natural variation of living in Denver,  
6 Colorado, versus Harrisburg, Pennsylvania, where I live.

7 Those kinds of variations are common, so it is  
8 not a level of exposure that is a health concern to  
9 anybody.

10 MR. NOVAK: Okay, thank you very much.

11 MR. KUEHN: Thank you.

12 MR. FULLER: My name is Ernest Fuller, again.

13 I first had a question for the NRC  
14 representatives if you are still willing to answer  
15 questions.

16 MR. ADAMS: Can we finish GPU's questions  
17 first?

18 MR. FULLER: Okay. There was an analysis that  
19 was supposed to be finished in December of whether there  
20 would be any greater than class C waste generated.

21 Has that been completed, and what are the  
22 results?

23 MR. KUEHN: No, I'm not in receipt of a final  
24 analysis, yet. There is still material that we are  
25 studying, sampling and analyzing to determine where we are

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1 with final amounts of greater than class C, if any, and  
2 what levels of waste we have, at what volumes.

3 MR. FULLER: When are you planning to have  
4 that information, then?

5 MR. KUEHN: I'm not sure at this time, Ernest,  
6 when we will have the final report on that.

7 MR. FULLER: What is the problem that it  
8 wasn't able to be ready when you said it was going to be  
9 ready.

10 MR. KUEHN: I don't recall having said that  
11 that was ready. If I said that, you will have to remind  
12 me of when.

13 MR. FULLER: In a letter to the NRC, dated  
14 July 18th, on page 21, you indicated that you would be  
15 finished by -- with that information then. But apparently  
16 not.

17 MR. KUEHN: By what date does that say?

18 MR. FULLER: July 18th.

19 MR. KUEHN: I can't imagine why we would have  
20 been that specific with July 18th, but in any event, our -  
21 -

22 MR. FULLER: July 18th was the letter, you  
23 said you would have the information by the end of the  
24 year.

25 MR. KUEHN: By the end of the year. I haven't

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1 seen that report, that doesn't mean the report isn't out  
2 yet. It hasn't been reviewed by me, yet.

3 Our D&D group, or our engineering support for  
4 the project is working to characterize and finalize the  
5 waste streams that we have, the shipments that we will  
6 have to make in the future, and some of that work is not  
7 done yet.

8 MR. FULLER: In that same response to  
9 questions, on page 34 you indicated that you hadn't made  
10 any estimate yet of the public -- the dose to the public  
11 from these activities.

12 Have you completed figuring out what the dose  
13 to the public might be, yet?

14 MR. KUEHN: You are talking from the  
15 shipments?

16 MR. FULLER: I'm talking from the whole  
17 decommissioning process, I assume.

18 MR. KUEHN: We don't anticipate any measurable  
19 dose to the public as a result of the activities that we  
20 are going to undergo during decommissioning.

21 Can I say, no, there will be no exposure to  
22 the public? Absolutely not. I can't say that. But  
23 measurable dose, we don't anticipate there being any dose.

24 When we finalize decommissioning, we will meet  
25 the criteria established by the NRC at that time. And,

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1 again, I said our target number right now is 15 millirem  
2 per year. So I will be able to say to you and everybody  
3 in the Saxton population will receive less than 15  
4 millirem per year, or I won't be able to terminate the  
5 license and walk away from it.

6 That is the dose to the public, as best as I  
7 can tell you.

8 MR. FULLER: That is after you are gone. I'm  
9 talking about during the process.

10 MR. KUEHN: During we don't anticipate any  
11 additional dose, measurable dose to the public as a result  
12 of decommissioning activities.

13 MR. FULLER: So you are not going to estimate  
14 anything, since it is just not going to exist?

15 MR. KUEHN: I'm estimating it is going to be  
16 not measurable.

17 MR. FULLER: Okay, so you are estimating,  
18 then.

19 MR. KUEHN: I'm answering your question,  
20 Ernest, as best as I can. Never say never.

21 MR. FULLER: Also, apparently, you do plan to  
22 release some water with low levels of radioactive tritium  
23 in the Juniata, possibly, during this process?

24 MR. KUEHN: Yes. There is a likelihood of  
25 some liquid releases during decommissioning. We don't

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1 have a large decontamination facility, here. However,  
2 there will be some water used in decontamination. The  
3 scabbling process.

4 We have some barrels of water, currently, that  
5 are inside containment that we have to dispose of. A  
6 logical way to do that would be to clean that water with  
7 portable processing systems which we would contract to  
8 come on-site, to clean, to filter that water if you will,  
9 much like you filter your water at home, if you do that.

10 That filtrate, or that filter media that is  
11 used to filter the radioactive materials out would be  
12 packaged and shipped as radioactive waste. The water, in  
13 turn, would be discharged after we had done a batch  
14 sampling, recirculation and sampling of that water to make  
15 sure that it meets release criteria, and then we would be  
16 able to discharge that to the river.

17 That release criteria and the calculations we  
18 have to do, are conservative calculations which assume  
19 that the public drinks the water out of the river, eats  
20 the fish from the river, stands beside the river, and is  
21 directly exposed to whatever radiation we release.

22 Those kinds of liquid releases are typically  
23 less than a millirem, you know, per year to the person  
24 from that release. We are talking fractions of a millirem  
25 to a millirem. So they are not high levels of material

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1 released into the river, and will be within the NRC's  
2 regulations for those releases.

3 MR. FULLER: Your decommissioning plan makes  
4 reference to a lot of GPU procedures and quality assurance  
5 plans and things like that. Is it possible for a member  
6 of the public to see what those are?

7 MR. KUEHN: We don't typically make our  
8 procedures and plans available to the public to  
9 scrutinize. It is not something that we do. If the  
10 citizen's task force has a particular procedure or  
11 something that we are about to do that we are curious  
12 about, I'd be glad to explain it to the citizen's task  
13 force at the meeting, and bring a copy of the procedure  
14 with me.

15 I mean, we don't have anything to hide in the  
16 procedures, but if I brought the public all the  
17 procedures, we'd line all these tables with procedures,  
18 and it would be difficult to understand and interpret.

19 I would rather have the opportunity at the  
20 citizen's task force meeting to explain what process it is  
21 you are wondering about.

22 MR. FULLER: Okay. And right now your plan,  
23 as you said, indicates that you plan to clean up the site  
24 to the 15 millirem limit?

25 MR. KUEHN: Yes.

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1 MR. FULLER: You also said that you would meet  
2 whatever requirements the NRC had at the time. If the NRC  
3 were to change the requirements to say, 25 millirem which  
4 is one of the possible outcomes they predicted, what  
5 standard would you clean up to?

6 MR. KUEHN: We will clean up to the standard  
7 in place at the time of license termination, or our  
8 submittal for the termination plan.

9 MR. FULLER: Okay. So you may not clean up to  
10 a 15 millirem standard?

11 MR. KUEHN: If they change it to 10, I'm going  
12 to meet 10. I'm going to do whatever the regulations say  
13 I have to do. If I have to go down, I'll go down, if I  
14 have to go up, I'll have that leeway to go up.

15 MR. FULLER: The NRC requires you to go up?

16 MR. KUEHN: Pardon?

17 MR. FULLER: The NRC requires you to go up?

18 MR. KUEHN: I didn't say they required me. I  
19 said, I would meet the regulations at the time --

20 MR. FULLER: But you just said that.

21 MR. KUEHN: -- of license termination.

22 MR. FULLER: Okay. That was my last question  
23 for you.

24 MR. KUEHN: Thank you. Any other questions of  
25 me before the NRC comes back up? Anything at all?

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1 (No response.)

2 MR. KUEHN: Thank you.

3 MS. ICKES: At this time, does anyone have any  
4 formal comments that they would care to make?

5 (No response.)

6 MS. ICKES: No. Al?

7 MR. ADAMS: We've paid for the place until 10,  
8 so I'm willing to answer more questions. Anybody?

9 MS. ICKES: If you do not step to the mike,  
10 the transcriber cannot record it, so you must be at the  
11 mike.

12 MR. TYDEMAN: Do you plan to have any further

13 --

14 MS. ICKES: Identify yourself, please.

15 MR. TYDEMAN: Jim Tydeman, again. Do you plan  
16 on having any additional meetings like this?

17 MR. ADAMS: The next planned meeting of this  
18 type would be at the license termination stage. As we go  
19 through the process, there is always the possibility that  
20 we will have meetings with the licensee, like we have in  
21 the past.

22 And as, in the past, those are public  
23 meetings, they will be notice, the public will be aware of  
24 those meetings, and they are invited to attend.

25 You've attended many meetings that we've had

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1 with the licensee.

2 MR. TYDEMAN: Right.

3 MR. ADAMS: So that will continue, if we have  
4 meetings of that type. But this type of forum, the next  
5 one that would be planned would be when the license  
6 termination plan is put in.

7 MR. TYDEMAN: Okay.

8 MR. FULLER: Just following up on that last  
9 question, my name is Ernest Fuller. There had been public  
10 meetings or meetings that were made public between the NRC  
11 and GPU over the past many years, as you mentioned.

12 The last one was early last year, and  
13 apparently now you are having weekly telephone  
14 conversations with GPU to deal with things. Is it  
15 possible either to somehow make those meetings more public  
16 so people can see them, or are you having public meetings  
17 to discuss what is going on, or what?

18 MR. ADAMS: They are not public meetings.

19 MR. FULLER: I know.

20 MR. ADAMS: I mean, we pick up the phone and  
21 talk to licensees all the time.

22 MR. FULLER: Right.

23 MR. ADAMS: And the licensees talk to us, to  
24 facilitate our regulatory process. The public meetings,  
25 the meetings that we've had with the licensee in the past

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1 have been to discuss specific aspects of licensing actions  
2 we have taken.

3 The weekly telecons we have with the licensee,  
4 as Tom explained, we ask, what have you done last week,  
5 what do you plan to do next week. That is basically the  
6 essence of the conversation, and we are doing that so that  
7 we are on top of what is going on there.

8 And if the licensee says to us, well, next  
9 Tuesday we plan to do this and it is something that we  
10 feel is significant, then we have forewarning, and we can  
11 plan to be on-site and observing.

12 Do you have anything to add, Gene?

13 (No response.)

14 MR. ADAMS: The telephone calls are not, you  
15 know, everything we do is not a public meeting, or else it  
16 would be really hard to do things.

17 MR. FULLER: I understand that.

18 MR. ADAMS: Just like inspections occur, and  
19 they are not public meetings. So -- I mean, that is the  
20 best I can answer your question.

21 If something is raised, if something comes to  
22 the level where we would need to have a significant  
23 discussion with the licensee, say, to understand their  
24 tech spec amendment request that they have in front of us,  
25 we would have a public meeting like in the past.

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1                   So if they are coming to us to sit down and we  
2 are talking significant issues, then that is a public  
3 meeting.

4                   MR. FULLER: I guess there hasn't been  
5 anything like that for the past year, then?

6                   MR. ADAMS: No, there hasn't. Any other  
7 questions?

8                   (No response.)

9                   MR. ADAMS: I'd like to thank you for coming,  
10 I'll remind you again that if you have any comments you  
11 want to make on the PSDAR you can submit them to us in  
12 writing, you have our address, the Federal Register Notice  
13 has the address, and comments on the PSDAR will be  
14 considered as we look at the informational requirements.

15                  MS. ICKES: I want to thank you all for  
16 attending, and remind you that the next meeting of this  
17 group will be held in March. Sylvia, I'm not sure of the  
18 date, the 10th?

19                  March the 10th, yes, at 7 o'clock. We hope to  
20 see continued public involvement in this project. Thank  
21 you.

22                  (Whereupon, the above-entitled matter was  
23 adjourned at 9:37 p.m.)

24  
25

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